NORTHERN UTILITIES, INC.

DIRECT TESTIMONY

OF

TIMOTHY S. LYONS

EXHIBIT TSL-1

New Hampshire Public Utilities Commission

Docket No. DG 21-104

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1		I. <u>INTRODUCTION</u>
2	Q.	Please state your name, occupation and business address.
3	A.	My name is Timothy S. Lyons. I am a Partner with ScottMadden, Inc. My business
4		address is 1900 West Park Drive, Suite 250, Westborough, Massachusetts 01581.
5		
6	Q.	On whose behalf are you submitting this testimony?
7	A.	I am submitting this testimony on behalf of Northern Utilities, Inc. ("Northern" or
8		the "Company").
9		
10	Q.	Please describe your professional experience.
11	A.	I have more than 30 years of experience in the energy industry. I started my career
12		in 1985 at Boston Gas Company, eventually becoming Director of Rates and
13		Revenue Analysis. In 1993, I moved to Providence Gas Company, eventually
14		becoming Vice President of Marketing and Regulatory Affairs. Starting in 2001, I
15		held a number of management consulting positions in the energy industry first at
16		KEMA and then at Quantec, LLC. In 2005, I became Vice President of Sales and
17		Marketing at Vermont Gas Systems, Inc. before joining Sussex Economic Advisors,
18		LLC ("Sussex") in 2013. Sussex was acquired by ScottMadden in 2016.
19		
20	Q.	What is your educational background?
21	A.	I hold a bachelor's degree from St. Anselm College, a master's degree in Economics
22		from The Pennsylvania State University, and a master's degree in Business

Administration from Babson College. A summary of my professional and educational background, including a list of my testimony in prior proceedings, is included in Schedule TSL-1.

A.

II. PURPOSE OF TESTIMONY

Q. What is the purpose of your testimony?

The purpose of my testimony is to sponsor the Company's proposed revenue decoupling mechanism ("RDM") and associated tariff. The RDM addresses the basic misalignment between the structure of the Company's costs and its rates. Specifically, utility distribution costs are largely fixed and change very little in the short run with changes in usage levels. However, distribution rates have a significant variable, or usage-based, component that changes revenues (and cost recovery) with changes in usage levels. The RDM corrects for this misalignment by adjusting the Company's actual revenues to match its authorized revenues. RDMs have been approved in numerous jurisdictions, including New Hampshire, and are viewed in the industry as important to the development of Energy Efficiency ("EE") initiatives.

Q. How is the remaining portion of your testimony organized?

20 A. The remaining portion of my testimony is organized into the following sections.

- Section III provides an overview of revenue decoupling, including the Commission's guidance in the Gas and Electric Utilities Energy Efficiency Resource Standard proceeding ("EERS" proceeding).¹
 - Section IV describes the proposed RDM.
 - Section V illustrates the calculation of the proposed RDM for the residential rate class.
 - Section VI summarizes the benefits of the proposed RDM.

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III. OVERVIEW OF REVENUE DECOUPLING

Q. What is revenue decoupling?

- Revenue decoupling breaks or "decouples" the link between utility revenues and sales volumes, helping to ensure that a utility does not over- or under-recover its authorized revenue requirement. There are two basic forms of revenue decoupling:
 - Partial or Limited Revenue Decoupling this type addresses specific
 variances between actual and authorized revenues, such as the impact of
 weather or EE. The Company's current Lost Revenue Rate ("LRR") within
 the Local Delivery Adjustment Charge ("LDAC") is an example of partial
 or limited revenue decoupling.
 - Full Revenue Decoupling this type addresses the total variance between actual and authorized revenues. The Company's proposed RDM is an

¹ Docket DE 15-137

1 example of full revenue decoupling. Variances can be measured on the basis 2 of total revenues, or revenues per customer ("RPC"). 3 4 Q. Has the Commission approved a revenue decoupling mechanism for New 5 Hampshire gas and electric utilities? 6 A. Yes. The Commission approved a lost revenue adjustment mechanism ("LRAM"), 7 a partial or limited revenue decoupling mechanism, for all electric and gas utilities in the EERS proceeding,² noting: 8 9 "...without the LRAM, or a change in the way rates are designed 10 today, the utilities may lose revenue that the Commission has 11 already determined in the utility's rate case is just and reasonable 12 for them to recover. Consequently, we approve the LRAM as proposed."3 13 14 In the EERS proceeding, the Commission recognized the limitations of an LRAM 15 and the role a full revenue decoupling mechanism can play in ensuring that the 16 utility does not over- or under-recover its authorized revenue requirement. 4 17 The Commission therefore required utilities to seek approval of a revenue 18 decoupling mechanism, stating:

² Docket DE 15-137, Order No 25,932

³ Id., p. 59

⁴ Id., p. 59-60 ("[W]e are mindful that, with an LRAM, the utilities' revenues can increase above their authorized revenue requirements from increased sales, and, for that reason and others, some parties prefer decoupling. This is because decoupling provides a reconciliation to the last-approved revenue requirement.")

"We note that our approval of the LRAM does not limit our subsequent consideration and approval at any time of a different lost revenue recovery mechanism, and that the Joint Utilities (except NHEC) are required to seek approval of a decoupling or other lost-revenue recovery mechanism as an alternate to the LRAM in their first distribution rate cases after the first EERS triennium, if not before."

Following the EERS proceeding, the Commission approved full revenue decoupling mechanisms for Liberty Utilities (EnergyNorth Natural Gas) Corporation, ⁶ and Liberty Utilities (Granite State Electric) Corporation. ⁷

The Company's proposed RDM is generally consistent with the revenue decoupling mechanism approved for Liberty Utilities (Granite State Electric) Corporation and the revenue decoupling mechanism recently filed by the Company's New Hampshire electric division (Unitil Energy Systems, Inc.)⁸.

Q. Please provide an overview of the Company's proposed RDM.

A. The proposed RDM is a full revenue decoupling mechanism that reconciles monthly actual and authorized RPC by rate class. The proposed RDM is applicable to all rate classes. The Company proposes that the authorized RPC be adjusted

⁵ Id., p. 60

⁸ Docket DE 21-030.

⁶ Docket DE 17-048, Order No. 26,122 at pp. 45-46 ("We applaud Liberty for proposing a decoupling mechanism to replace the LRAM.").

⁷ Docket DE 19-064, Order No. 26,376 at pp. 9, 13 (approving a Settlement Agreement supporting the implementation of a decoupling mechanism).

annually to reflect three estimated annual step increases on August 1, 2022 of \$3.1 million; August 1, 2023 of \$3.1 million; and August 1, 2024 of \$3.2 million associated with 2021, 2022 and 2023 capital investments.

The proposed RDM process will consist of two steps:

In the first step, the Company will record monthly variances between actual and authorized RPC for each rate class. The monthly variances are then aggregated over the twelve-month period August through July (the "Measurement Period"). The monthly variances are recorded in a deferred account with carrying costs accrued at the Prime rate. The aggregate variances and carrying costs form the basis for the revenue decoupling adjustment ("RDA") and the calculation of RDM adjustment factor ("RDAF") (surcharge or credit). For example, revenue surpluses (actual RPC is greater than authorized RPC) during the Measurement Period will result in a credit or refund for the customers. Conversely, revenue shortfalls (i.e., actual RPC is less than authorized RPC) during the Measurement Period will result in a surcharge to the customers.

In the second step, the Company will file with the Commission the applicable RDAF 45 days in advance of the effective date of November 1. The filing will include an allocation of the RDA, including prior period reconciliation and deferrals as a result of a cap, to each rate class, and calculation of the RDAF.

⁹ Interest shall be calculated at the prime rate, with said prime rate to be fixed on a quarterly basis and to be established as reported in the <u>Wall Street Journal</u> on the first business day of the month preceding the calendar quarter. If more than one interest rate is reported, the average of the reported rates shall be used.

1		The RDA is allocated to each rate class based on the authorized revenues of
2		each rate class in the most recent rate case, including step adjustments.
3		The RDAF is calculated as a dollar per therm charge or credit based on the
4		RDA allocated to each rate class divided by the projected therm sales for each rate
5		class over the prospective twelve-month period November through October ("RDM
6		Adjustment Period"). The RDAF will be charged or credited to customer bills
7		during the RDM Adjustment Period.
8		The tariff for the Company's proposed RDM is included in Schedule TSL-
9		2. Upon implementation of its first RDAF, the Company will incorporate the
10		supporting RDAF calculation in its RDAC tariff.
11		
12	Q.	What are the primary benefits of the Company's proposed RDM?
13	A.	There are three primary benefits of the Company's proposed RDM:
14		
		1. It corrects the basic misalignment between utility rates and costs;
15		 It corrects the basic misalignment between utility rates and costs; It supports achievement of certain policy objectives, such as EE initiatives; and
15		2. It supports achievement of certain policy objectives, such as EE initiatives; and
15 16	Q.	2. It supports achievement of certain policy objectives, such as EE initiatives; and
151617	Q. A.	 It supports achievement of certain policy objectives, such as EE initiatives; and It helps stabilize utility cost recovery as well as customer bills.
15 16 17 18		 It supports achievement of certain policy objectives, such as EE initiatives; and It helps stabilize utility cost recovery as well as customer bills. Please discuss the basic misalignment between utility rates and costs.

1		• <u>Demand-related costs</u> – including transmission and distribution costs that
2		generally vary by demand; and
3		• <u>Commodity-related costs</u> – including variable Operating and Maintenance
4		expenses that generally vary by therm sales or natural gas consumed.
5		Utility revenue requirements and rates are designed to recover all of these costs.
6		However, especially for residential customers, a significant portion of the revenue
7		requirements are recovered on the basis of consumption charges reflecting usage at
8		the time rates are established (i.e., rates are set based on an assumed level of usage).
9		Thus, to the extent that actual usage is significantly lower than the assumed level
10		of usage in rates, the utility rates no longer recover the authorized revenue
11		requirements. Conversely, to the extent that actual usage is significantly higher
12		than the assumed level of usage in rates, then utility rates recover more than the
13		authorized revenue requirements.
14		Revenue decoupling corrects for this misalignment by adjusting revenues
15		to match the authorized revenue requirements.
16		
17	Q.	Has the Commission recognized this misalignment between utility rates and
18		costs?
19	A.	Yes. In the EERS proceeding, the Commission noted this misalignment in the
20		context of energy savings due to EE programs. The Commission stated: "With

design, which recovers costs through a variable, or consumption-based, rate."10

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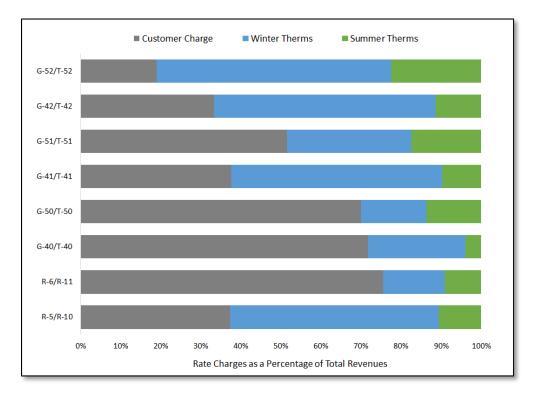
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- 4 Q. Do the Company's current rates exhibit this misalignment between utility costs and rates?
- A. Yes. The portion of the Company's charges that are based on consumption (therm
 sales) is significant, as shown in Figure 1.

Figure 1: Consumption Revenues as Percentage of Total Revenues¹¹



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The Figure shows that a significant portion of the Company's residential and commercial distribution revenues are recovered through usage (therms). For

¹⁰ Docket DE 15-137, Order No 25,932, p. 59

¹¹ Source: Settlement Agreement in Docket DG 17-070, Exhibit 2.

1 example, the Figure shows that approximately 60 percent of Residential Heating 2 (R-5 and R-10 rate classes) revenues are recovered through consumption charges. 3 4 Please discuss how revenue decoupling supports certain policy objectives. Q. 5 A. The proposed RDM supports certain policy objectives, such as EE initiatives. 6 Recovery of fixed costs through variable charges creates an inherent financial 7 disincentive for utilities to promote initiatives that reduce customer consumption 8 and has been referenced as a "primary barrier to aggressive utility investment in 9 energy efficiency."¹² 10 The RDM removes this financial disincentive, facilitating policies aimed to 11 encourage EE initiatives. The Commission has noted: "Decoupling . . . was 12 designed to sever the link between sales and revenues to remove [a utility's] 13 disincentive to promote energy conservation that is inherent in traditional ratemaking."13 14 15 16 Q. Has the utility industry recognized the benefits of RDM in achieving policy 17 objectives? 18 Yes. Revenue decoupling is recognized by the utility industry as an essential tool A. 19 in promoting EE initiatives. An ACEEE report states: "For energy efficiency to

¹² National Action Plan for Energy Efficiency (2007): Aligning Utility Incentives with Investment in Energy Efficiency, at p. ES-3

¹³ Docket DG 19-145, Order No 26,306 at p. 7.

1		flourish, the use of decoupling needs to be expanded so that utilities can recover
2		their fixed costs even if sales decline."14 Moreover, the benefits of revenue
3		decoupling are recognized in regulatory jurisdictions throughout the U.S. Full
4		revenue decoupling is currently in effect in 22 jurisdictions, including New
5		Hampshire. In New England, full revenue decoupling is currently in effect for 20
6		of 26 electric and gas utilities, as shown in Schedule TSL-3. 15
7		
8		
9	IV	NORTHERN'S PROPOSED REVENUE DECOUPLING MECHANISM
10	Q.	What are the key features of the Company's proposed RDM?
11	A.	There are seven key features of the Company's proposed RDM discussed in this
12		section, including:
13		1. Type of RDM
14		2. Revenue Adjustments
15		3. Applicable Rate Classes
16		4. Deferred Account
17		5. Class Allocation
18		6. Factor Calculation
19		7. Adjustment Cap
20		

¹⁴ ACEEE The Future of the Utility Industry and the Role of Energy Efficiency (June 2014), at p. viii 15 S&P Global Market Intelligence. Data as of April 12, 2021.

1. Type of RDM

Q. What type of RDM is the Company proposing?

A. The Company's proposed RDM is a full revenue decoupling mechanism. The proposed RDM reconciles monthly variances between actual and authorized RPC for each rate class. As discussed earlier, full revenue decoupling better accomplishes the Commission's policy objective to severe the link between volumes and revenues, providing a greater incentive to pursue energy efficiency, as compared to partial or limited revenue decoupling.

A.

Q. What is the primary benefit of the proposed RPC approach?

The primary benefit of the proposed RPC approach is the recognition of new customer revenues. The Company expects to add new customers and incur incremental costs to serve new customers during the term of the RDM. The incremental costs are related to providing new customers with access to the distribution system and meeting their demand requirements. Under the RPC approach, the Company retains the RPC associated with serving new customers that is used to offset the costs associated with new customers.

By comparison, under a total revenue approach, the Company does not retain incremental revenues to offset the incremental costs, creating an adverse financial impact when adding new customers.

2. Revenue Adjustments

Q. Is the Company proposing annual adjustments to the authorized RPC?

Yes. The Company proposes that the authorized RPC be adjusted annually to reflect three estimated step increases on August 1, 2022 of \$3.1 million, August 1, 2023 of \$3.1 million, and August 1, 2024 of \$3.2 million associated with the 2021, 2022 and 2023 capital investments, as discussed in the testimony of Company witnesses Messrs. Christopher Goulding and Daniel Nawazelski.

Schedule TSL-4 shows derivation of the authorized RPC for the first step increase on August 1, 2022. Specifically, the Schedule shows the authorized RPC is based on the authorized revenues divided by the number of customers included in the authorized rate design. The authorized revenues are based on the target distribution revenues plus the step increase.

For example, the authorized RPC in August 2022 for the residential heating class of \$40.49 is based on the authorized revenues of \$51,687 divided by the number of customers included in the authorized rate design of 1,277. The authorized revenues of \$51,687 are based on the target distribution revenues of \$48,504 plus the 2022 step increase of \$3,183.

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Q. Why is the Company proposing the annual adjustments?

A. The Company proposes the annual adjustments to align the authorized revenue requirements with the authorized RPC. In other words, as the Company's

1		authorized revenue requirement increases as a result of the step increases, the
2		Company's authorized RPC should similarly increase.
3		
4		3. Applicable Rate Classes
5	Q.	What rate classes would the proposed RDM apply to?
6	A.	The Company proposes that the RDM be applicable to the Company's Residential
7		Heating and Non-Heating Service (Schedules R-5 and R10 combined, and R-6),
8		Commercial and Industrial Service (Schedules G-40, G-50, G-41, G-42, G-51, and
9		G-52) customer classes. The revenues associated with special contracts will not be
10		included as part of the RDM.
11		
12		4. <u>Deferred Account</u>
13	Q.	Is the Company proposing to establish a deferred account to record variances
14		between actual and authorized RDM?
15	A.	Yes. The Company proposes to establish a deferred account to record monthly
16		variances between actual and authorized RPC. The monthly variances will be
17		calculated by rate class and then recorded in a deferred account with carrying costs
18		at the Prime rate.
19		The aggregate monthly variances and carrying costs form the basis for the
20		RDA and the calculation of RDAF (surcharge or credit). For example, revenue
21		surpluses (i.e., actual RPC greater than authorized RPC) during the Measurement
22		Period will result in a credit or refund to customers, while revenue shortfalls (i.e.,

actual RPC less than authorized RPC) during the Measurement Period will result in a surcharge to customers.

A.

Q. What is the proposed process to establish the RDAF?

The Company proposes to file with the Commission the applicable RDAF 45 days before the effective date of November 1. The filing will include an allocation of the RDA to each rate class, and the calculation of the RDAF. The RDA is allocated to each rate class based on the authorized revenues of each rate class in the most recent rate case, including step adjustments. The RDAF will be calculated as a dollar per therm charge or credit based on the RDA allocated to each rate class divided by the projected therm sales for each rate class over the RDM Adjustment Period (prospective 12-month period November through October). The RDAF will be charged or credited to customer bills during the RDM Adjustment Period. The RDM process will follow the schedule below.

Dates	Activity
August 1 through July 31	Measure and record monthly in a deferred account the revenue variances between actual and authorized RPC
On or about September 17 (45 days before November 1)	File with the Commission the RDAF based on the aggregate monthly revenue variances and monthly carrying costs on the deferred account balances
November 1 through October 31	Apply the RDAF to customer bills

5. Class Allocation

1	Q.	How will the revenue decoupling adjustment be allocated to each rate class?
2	A.	The RDA will be allocated to each rate class based on the proportion of authorized
3		revenues in the most recent rate case, including step adjustments.
4		
5		6. Factor Calculation
6	Q.	How will the RDAF be calculated?
7	A.	The RDAF will be calculated on a dollar per therm basis for each rate class based
8		on the RDA allocated to each rate class divided by the projected class therm sales
9		for the RDM Adjustment Period (November through October). The RDAF will be
10		applied to customer bills during the RDM Adjustment Period.
11		
12		7. Adjustment Cap
13	Q.	Is the Company proposing any adjustment cap?
14	A.	Northern proposes to limit the RDA to two- and one-half percent (2.5%) of total
15		revenues from delivered sales for the most recent twelve-month period, August
16		through July, with revenue for externally supplied customers being adjusted by
17		imputing the Company's cost of gas charges for that period. To help mitigate
18		customer bill impacts, the cap would be applicable only to revenue shortfalls.

Under-recovered revenues in excess of the adjustment cap would be held in the

deferred account with carrying costs and included in the next RDAF filing.

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V. <u>ILLUSTRATIVE CALCULATION OF DECOUPLING MECHANISM</u>

Q. How will the Company implement the proposed RDM?

A. As explained above, the proposed RDM process consists of two steps:

In the first step, the Company calculates the monthly variances between actual and authorized RPC for each rate class. The variances are calculated monthly and then aggregated over the twelve-month period August through July (the Measurement Period). The monthly variances are recorded in a deferred account with carrying costs accrued at the Prime rate. The aggregate variances and carrying costs form the basis for the RDA and the calculation of RDAF (surcharge or credit). For example, if the Company experiences a revenue surplus (actual revenues are greater than authorized revenues) during the Measurement Period, the RDM will result in a credit or refund to customers. Conversely, if the Company experiences a revenue shortfall (actual revenues are less than authorized revenues) during the Measurement Period, the RDM will result in a surcharge for customers.

In the second step, the Company files with the Commission the applicable RDAF 45 days before the effective date of November 1. The filing will include an allocation of the RDA to each rate class, and calculation of the RDAF. The RDA is allocated to each rate classes based on the authorized revenues of each rate class in the most recent rate case, including step adjustments. The RDAF will be calculated as a dollar per therm charge or credit based on the RDA allocated to each rate class divided by the projected therm sales for each rate class over the RDM Adjustment

Period (twelve-month period November through October). The RDAF will be charged or credited to customer bills during the RDM Adjustment Period.

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Q. Please illustrate the first step.

5 A. In the first step, the Company will calculate monthly variances between actual and
6 authorized RPC for each rate class, as illustrated for the residential rate class in
7 Figure 2 (below).

Figure 2: Monthly Residential Heating Revenue Variance Calculation (Illustrative)¹⁶

Illustrative Calculation		Actual	Residential Heatin	ng		Authoriz	ed Residential H	eating		Variance Over / (l	Under)
Variance Over / (Under)		Revenues	Customers	RPC		Revenues	Customers	R	PC	RPC	Revenues
August	s	1.081.951	27.217	\$ 39.75		1.076.569	26.815	¢ 40	15 S	(0.40) S	(10,766
August	ş			•	ş			•			
September		1,283,256	27,217	47.15		1,276,871	26,815	47.	52	(0.47)	(12,769
October		1,775,342	27,217	65.23		1,766,509	26,815	65.	88	(0.65)	(17,665
November		2,635,287	27,217	96.82		2,622,176	26,815	97.	79	(0.96)	(26,222
December		3,694,761	27,217	135.75		3,676,379	26,815	137.	10	(1.35)	(36,764
January		4,118,742	27,217	151.33		4,098,251	26,815	152.	84	(1.51)	(40,983
February		3,747,792	27,217	137.70		3,729,146	26,815	139.	07	(1.37)	(37,291
March		3,287,159	27,217	120.78		3,270,805	26,815	121.	98	(1.20)	(32,708
April		2,260,725	27,217	83.06		2,249,478	26,815	83.	89	(0.83)	(22,495
May		1,663,286	27,217	61.11		1,655,011	26,815	61.	72	(0.61)	(16,550
June		1,238,872	27,217	45.52		1,232,709	26,815	45.	97	(0.45)	(12,327
July		1,054,859	27,217	38.76		1,049,611	26,815	39.	14	(0.39)	(10,496
12ME July	\$	27,842,031	326,604		\$	27,703,514	321,778			\$	(277,035

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The Figure shows a four-phase process for each month assuming a 1.00 percent reduction in average revenue per customer for the residential sector. In the first phase, the Company calculates the authorized RPC per month by dividing the authorized monthly revenues by authorized monthly number of customers. In the second phase, the Company calculates the actual monthly RPC by dividing the actual revenues by the actual number of customers. In the third phase, the Company calculates the monthly variances between the actual and authorized RPC. In the

¹⁶ The illustrative calculation assumes a 1.00 percent reduction in revenue per customer each month

final phase, the Company calculates the monthly revenue variance by multiplying the RPC variance with the actual number of customers.

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The monthly revenue variances will be recorded in a deferred account with carrying costs accrued through the year at Prime rate, as illustrated for the residential rate class in Figure 3 (below).

Figure 3: Deferred Account Balance (Illustrative)¹⁷

Illustrative	Deferred Account	Revenue	Carrying	Carrying	De	ferred Account
Deferred Account Balance	Starting Balance	Variance	Costs Rate	Costs		Ending Balance
August	\$ -	\$ (10,766)	0.27%	\$ (15)	\$	(10,780)
September	(10,780)	\$ (12,769)	0.27%	(46)	\$	(23,595)
October	(23,595)	\$ (17,665)	0.27%	(88)	\$	(41,348)
November	(41,348)	\$ (26,222)	0.27%	(147)	\$	(67,718)
December	(67,718)	\$ (36,764)	0.27%	(233)	\$	(104,715)
January	(104,715)	\$ (40,983)	0.27%	(339)	\$	(146,036)
February	(146,036)	\$ (37,291)	0.27%	(446)	\$	(183,774)
March	(183,774)	\$ (32,708)	0.27%	(542)	\$	(217,024)
April	(217,024)	\$ (22,495)	0.27%	(618)	\$	(240,137)
May	(240,137)	\$ (16,550)	0.27%	(673)	\$	(257,360)
June	(257,360)	\$ (12,327)	0.27%	(714)	\$	(270,400)
July	(270,400)	\$ (10,496)	0.27%	(747)	\$	(281,643)
August	(281,643)		0.27%	(763)	\$	(282,406)
September	(282,406)		0.27%	(765)	\$	(283,171)
October	(283,171)		0.27%	(767)	\$	(283,938)
Total		\$ (277,035)		\$ (6,903)	\$	(283,938)

The Figure shows that carrying costs of \$6,903 will be accumulated through the year at the assumed Prime Rate. The aggregate monthly variances and carrying costs form the basis for the RDA and the calculation of RDAF surcharge or credit depending on the revenue variances. 18

Q. Please discuss the second step in calculating the RDM adjustment.

¹⁷ The illustrative calculation assumes a Prime Rate of 3.25 percent, or 0.2708 percent monthly ¹⁸ The illustrative calculation shows RDA based on 12 months' ending July balance. However, the Company's proposed RDA filed will also include estimated carrying costs through October 31.

1 A. In the second step, the Company will file the applicable RDAF based on the RDA
2 for the Measurement Period. The filing will include allocation of the RDA to rate
3 classes, and calculation of the RDAF.

The RDA will be allocated to each rate class based on each class's authorized revenues, including step adjustments, as shown in Figure 4 (below).

Figure 4: Decoupling Adjustment Allocation (Illustrative)¹⁹

Illustrative Revenue Decoupling Adjustment	Authorized evenues (\$)	Authorized Revenues (%)	Allo	cated RDA (\$)
Residential Non-Heating (R-6)	\$ 737,886	1.45%	\$	(4,112)
Residential Heating (R-5/R-10)	27,702,514	54.37%		(154,385)
C&I Low Annual, High Winter (G-40)	8,274,293	16.24%		(46,112)
C&I Low Annual, Low Winter (G-50)	1,201,344	2.36%		(6,695)
C&I Medium Annual, High Winter (G-41)	6,421,989	12.60%		(35,790)
C&I Medium Annual, Low Winter (G-51)	1,638,520	3.22%		(9,131)
C&I High Annual, High Winter (G-42)	1,895,204	3.72%		(10,562)
C&I High Annual, Low Winter (G-52)	3,077,325	6.04%		(17,150)
Total	\$ 50,949,076	100.00%	\$	(283,938)

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The Figure shows that the Residential Heating class revenues are 54.37 percent of total Company revenues. Accordingly, the deferred account balance allocated to the Residential Heating class is \$154,385.

The allocated RDA forms the basis for the calculation of RDAF for each rate class, as shown in Figure 5 (below).

[.]

¹⁹ The RDA will be allocated to each rate class based on each class's authorized revenues. For illustrative purpose, Figure 4 currently shows the Company's proposed revenues plus 2022 step increase in the 'Authorized Revenues (\$)' column. The illustrative deferred account balance assumes that only the Residential class experienced a revenue change.

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Figure 5: Calculation of RDAF (Illustrative)

Illustrative Revenue Decoupling Adjustment	Char	ge/ (Refund) (\$)	Adjusted Test Year Sales		rge/ (Refund) \$/therm)
Residential Non-Heating (R-6)	\$	4,112	237,269	s	0.0173
Residential Heating (R-5/R-10)	•	154,385	20,067,257	•	0.0077
C&I Low Annual, High Winter (G-40)		46,112	10,880,833		0.0042
C&I Low Annual, Low Winter (G-50)		6,695	1,474,573		0.0045
C&I Medium Annual, High Winter (G-41)		35,790	14,423,832		0.0025
C&I Medium Annual, Low Winter (G-51)		9,131	4,761,300		0.0019
C&I High Annual, High Winter (G-42)		10,562	5,889,772		0.0018
C&I High Annual, Low Winter (G-52)		17,150	16,417,274		0.0010
Total	\$	283,938	74,152,109		

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The Figure shows that the RDAF for the Residential Heating class will be

4 \$0.0077 per therm. The adjustment factor would be implemented on customer

bills during the November through October RDM Adjustment Period.

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7 Q. Please describe how the RDAF will appear on customer bills.

8 A. For billing purposes, the Company plans to add the RDAF to the Distribution
9 Charge component.

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A.

Q. Is the proposed RDM subject to reconciliation?

Yes. As described in Section 7.0 of the proposed tariff, the RDM is subject to reconciliation. Specifically, the actual revenues received by the Company through application of the RDAF to customer bills is reconciled to the RDM adjustment amount.

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Q. Does this conclude your direct testimony?

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1 A. Yes, it does.