NORTHERN UTILITIES, INC. NEW HAMPSHIRE DIVISION NOVEMBER 2024 / OCTOBER 2025 ANNUAL PERIOD COST OF GAS ADJUSTMENT FILING PREFILED TESTIMONY OF <u>CHRISTOPHER A. KAHL</u>

1 I. INTRODUCTION

- 2 Q. Please state your name and business address.
- 3 A. My name is Christopher A. Kahl. My business address is 6 Liberty Lane West,
- 4 Hampton, New Hampshire.

5 Q. For whom do you work and in what capacity?

A. I am a Senior Regulatory Analyst for Unitil Service Corp. ("Unitil Service"), a subsidiary
of Unitil Corporation ("Unitil"). Unitil Service provides managerial, financial, regulatory
and engineering services to the principal subsidiaries of Unitil. These subsidiaries are
Fitchburg Gas and Electric Light Company d/b/a Unitil, Granite State Gas Transmission,
Inc. ("Granite"), Northern Utilities, Inc. d/b/a Unitil ("Northern" or "the Company"), and
Unitil Energy Systems, Inc. I am responsible for developing, providing and sponsoring
certain reports, testimony and proposals filed with regulatory agencies.

13 Q. Please summarize your professional and educational background.

14 A. I have worked in the natural gas industry for over twenty-five years. Before joining

15 Unitil in January 2011, I was employed as an Analyst with Columbia Gas of

- 16 Massachusetts ("Columbia") where I had worked since 1997 in supply planning. Prior to
- 17 working for Columbia, I was employed as an Analyst in the Rates and Regulatory Affairs
- 18 Department of Algonquin Gas Transmission Company ("Algonquin") from 1993 to 1997.
- 19 Prior to working for Algonquin, I was employed as a Senior Associate/Energy Consultant

1		for DRI/McGraw-Hill. I received a Bachelor of Sciences degree and a Masters of Arts
2		degree in Economics from Northeastern University.
3	Q.	Have you previously testified before the New Hampshire Public Utilities
4		Commission or for Unitil?
5	A.	Yes, I have testified before the Commission in the 2023 / 2024 Annual Cost of Gas
6		("COG") proceeding, Docket No. DG 23-085 and the 2022 / 2023 Annual COG
7		proceeding, Docket No. DG 22-059. I have testified in numerous other Cost of Gas
8		proceedings as well.
9	Q.	Please explain the purpose of your pre-filed direct testimony in this proceeding.
10	A.	This proceeding presents the annual COG filing and will propose both the 2024 / 2025
11		Winter Season and 2025 Summer Season COG rates as well as various ancillary rates.
12		Francis Wells, Manager of Gas Supply for Unitil Service, Elena Demeris, Senior
13		Regulatory Analyst for Unitil Service, Daniel Nawazelski, Manager of Revenue
14		Requirements for Unitil Service, and I are sharing the responsibility of supporting
15		Northern's proposed New Hampshire Division 2024 / 2025 Annual COG and other
16		proposed rate adjustments in this proceeding.
17		Mr. Wells is sponsoring the customer demand forecast and the resulting forecasted gas
18		sendout and gas costs he developed for Northern's Maine and New Hampshire Divisions.
19		He is also providing the Capacity Allocation Percentages, the Peaking Demand Rate
20		calculation and the Re-entry Rate and Conversion Rate calculations.

12	0.	Please provide a list of the Attachments that you have prepared in support of your
11		November 1, 2025 and May 1, 2025.
10		addition, I will also discuss some of the proposed ancillary rates that are to be effective
9		Winter Season, and for the May 1, 2025 to October 31, 2025 Summer Season. In
8		Northern proposes to charge customers for the November 1, 2024 to April 30, 2025
7		COG reconciliation, the calculation of the 2024 / 2025 annual COG and the rates
6		My testimony presents and explains the New Hampshire Division's 2023 / 2024 Annual
5		tax adjustment mechanism component of the LDAC.
4		Mr. Nawazelski is sponsoring the recovery of the expenses associated with the property
3		proposed 2024 / 2025 Winter Season and 2025 Summer Season COG rates.
2		Adjustment Clause ("LDAC"), and the typical customer bill impacts resulting from the
1		Ms. Demeris is sponsoring the calculation of the 2024 / 2025 Local Distribution

Q. Please provide a list of the Attachments that you have prepared in support of your testimony.

14 The Attachments that I have prepared in support of my testimony are listed below.

Attachment NUI-CAK-1	Allocation of Northern Fixed Capacity Costs To New Hampshire and Maine Divisions
Attachment NUI-CAK-2	Allocation of New Hampshire Fixed Capacity Costs To Months and Seasons
Attachment NUI-CAK-3	Division Sales and Sendout Forecast
Attachment NUI-CAK-4	Allocation of New Hampshire Demand Costs To New Hampshire Firm Sales Rate Classes
Attachment NUI-CAK-5	Allocation of Northern Commodity Costs To New Hampshire and Maine Divisions

Attachment NUI-CAK-6New Hampshire Division Commodity Cost AnalysisAttachment NUI-CAK-7Northern Utilities Inventory ActivityAttachment NUI-CAK-8Allocation of New Hampshire Variable Gas Costs To New Hampshire Firm Sales Rate ClassesAttachment NUI-CAK-9Calculation of High and Low Load Factor Commercial & Industrial Customer Rate AdjustmentsAttachment NUI-CAK-102023 - 2024 Annual COG ReconciliationAttachment NUI-CAK-11Bad Debt CalculationAttachment NUI-CAK-12New Hampshire Division (Over) / Under-collection Balances and Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit CalculationAttachment NUI-CAK-182024 – 25 Winter Season Target Balance		
Attachment NUI-CAK-8Allocation of New Hampshire Variable Gas Costs To New Hampshire Firm Sales Rate ClassesAttachment NUI-CAK-9Calculation of High and Low Load Factor Commercial & Industrial Customer Rate AdjustmentsAttachment NUI-CAK-102023 - 2024 Annual COG ReconciliationAttachment NUI-CAK-11Bad Debt CalculationAttachment NUI-CAK-12New Hampshire Division (Over) / Under-collection Balances and Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit Calculation	Attachment NUI-CAK-6	New Hampshire Division Commodity Cost Analysis
Image: Attachment NUI-CAK-9Calculation of High and Low Load Factor Commercial & Industrial Customer Rate AdjustmentsAttachment NUI-CAK-102023 - 2024 Annual COG ReconciliationAttachment NUI-CAK-11Bad Debt CalculationAttachment NUI-CAK-12New Hampshire Division (Over) / Under-collection Balances and Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit Calculation	Attachment NUI-CAK-7	Northern Utilities Inventory Activity
Attachment NUI-CAK-9Calculation of High and Low Load Factor Commercial & Industrial Customer Rate AdjustmentsAttachment NUI-CAK-102023 - 2024 Annual COG ReconciliationAttachment NUI-CAK-11Bad Debt CalculationAttachment NUI-CAK-12New Hampshire Division (Over) / Under-collection Balances and Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit Calculation	Attachment NUI-CAK-8	Allocation of New Hampshire Variable Gas Costs
Industrial Customer Rate AdjustmentsAttachment NUI-CAK-102023 - 2024 Annual COG ReconciliationAttachment NUI-CAK-11Bad Debt CalculationAttachment NUI-CAK-12New Hampshire Division (Over) / Under-collection Balances and Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit Calculation		To New Hampshire Firm Sales Rate Classes
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Attachment NUI-CAK-11Bad Debt CalculationAttachment NUI-CAK-12New Hampshire Division (Over) / Under-collection Balances and Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit Calculation		Industrial Customer Rate Adjustments
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Interest CalculationsAttachment NUI-CAK-13Summary of Cost of Gas Rate CalculationsAttachment NUI-CAK-14Comparison of Proposed Rates to Current RatesAttachment NUI-CAK-15Supplier Balancing ChargeAttachment NUI-CAK-16Prior Year Re-entry Rate and Conversion Rate RevenuesAttachment NUI-CAK-17Short Term Debt Limit Calculation	Attachment NUI-CAK-11	Bad Debt Calculation
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Attachment NUI-CAK-15 Supplier Balancing Charge Attachment NUI-CAK-16 Prior Year Re-entry Rate and Conversion Rate Revenues Attachment NUI-CAK-17 Short Term Debt Limit Calculation	Attachment NUI-CAK-13	Summary of Cost of Gas Rate Calculations
Attachment NUI-CAK-16 Prior Year Re-entry Rate and Conversion Rate Revenues Attachment NUI-CAK-17 Short Term Debt Limit Calculation	Attachment NUI-CAK-14	Comparison of Proposed Rates to Current Rates
Attachment NUI-CAK-17 Short Term Debt Limit Calculation	Attachment NUI-CAK-15	Supplier Balancing Charge
	Attachment NUI-CAK-16	Prior Year Re-entry Rate and Conversion Rate Revenues
Attachment NUI-CAK-18 2024 – 25 Winter Season Target Balance	Attachment NUI-CAK-17	Short Term Debt Limit Calculation
	Attachment NUI-CAK-18	2024 – 25 Winter Season Target Balance

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2 II Summary

3 Q. Please Summarize Northern's proposed 2024 / 2025 Winter Period and Summer

4 Period COG rates and describe how they compare to last year's rates.

- 5 A. Table 1 below provides Northern's proposed 2024 / 2025 Winter Period COG rates and
- 6 compares them to the average COG rates for the 2023 / 2024 Winter Period. As this table
- 7 shows, Winter Period COG rates are lower than those in 2023 / 2024 by \$0.0461 for

- 1 residential customers and by \$0.0184 and \$0.0483 per therm for High and Low Load
- 2 Factor Commercial / Industrial ("C / I") customers, respectively.

Table 1

4

3

Winter Period Cost of Gas Rates

	2024 / 2025	2023 / 2024	
Class	Proposed	Average	Percent Change From 2023 /2024 Winter Period
	Rate per therm	Rate per therm	
Residential			
Non-Heat (R-5, R-6 & R-10)	\$0.6553	\$0.7014	(6.57%)
C & I - High Load Factor			
(G-50, G-51 & G-52)	\$0.6135	\$0.6319	(2.91%)
C & I - Low Load Factor			
(G-40, G-41 & G-42)	\$0.6636	\$0.7119	(6.78%)

5

Table 2 below provides Northern's proposed 2024 / 2025 Summer Period COG rates and
compares them to the average COG rates for the 2023 / 2024 Summer Period. As this
table shows, the proposed COG rates are \$0.0598 higher for Residential customers,
\$0.0585 higher for High Load Factor C / I customers and \$0.0833 higher for Low Load
Factor C / I customers.

Table	2
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Summer Period Cost of Gas Rates

Class	2024 / 2025 Proposed Rate per therm	2023 / 2024 Average Rate per therm	Percent Change From 2023 / 2024 Summer Period
Residential			
Non-Heat (R-5, R-6 & R-10)	\$0.3884	\$0. 3286	18.20%
C & I - High Load Factor			
(G-50, G-51 & G-52)	\$0.3197	\$0. 2612	22.40%
C & I - Low Load Factor			
(G-40, G-41 & G-42)	\$0.4624	\$0. 3791	21.97%

5		A summary of the calculation of these rates, and the components that make up these rates
6		is provided in Attachment NUI-CAK-13. A more detailed comparison of 2024 / 2025
7		residential COG rates to 2023 / 2024 residential rates is provided in Attachment NUI-
8		CAK-14. I will describe the reasons for the change in COG rates later in my testimony.
9		Customer bill impacts resulting from the change in COG rates are discussed in the
10		testimony of Ms. Demeris and are presented in Attachment NUI-SED-3.
11	II.	COST OF GAS FACTOR
12	Q.	Please provide an overview of how Northern's COG-related costs are allocated to
13		the New Hampshire Division rate classes.

1	A.	The allocation of Northern's costs to the New Hampshire Division rate classes is derived
2		through three steps. They are as follows:
3		Step 1 – Allocate total Northern costs between the New Hampshire and Maine Divisions.
4		Step 2 - Allocate New Hampshire Division costs to the Winter and Summer Seasons.
5		Step 3 – Allocate New Hampshire Division seasonal costs to each rate class.
6		I will provide a detailed explanation of how these three steps are conducted.
7		A. Allocation of Northern's Demand-related Costs to the Maine and New
8		Hampshire Divisions
9	Q.	Please explain how Northern's projected fixed costs, i.e. (a) pipeline reservation and
9 10	Q.	Please explain how Northern's projected fixed costs, i.e. (a) pipeline reservation and gas supply demand charges, (b) underground storage capacity costs and (c) peaking
	Q.	
10	Q.	gas supply demand charges, (b) underground storage capacity costs and (c) peaking
10 11	Q. A.	gas supply demand charges, (b) underground storage capacity costs and (c) peaking resource capacity costs are allocated between Northern's Maine and New
10 11 12		gas supply demand charges, (b) underground storage capacity costs and (c) peaking resource capacity costs are allocated between Northern's Maine and New Hampshire Divisions.
10 11 12 13		gas supply demand charges, (b) underground storage capacity costs and (c) peaking resource capacity costs are allocated between Northern's Maine and New Hampshire Divisions. Northern's total demand costs are allocated to the Maine and New Hampshire Divisions
10 11 12 13 14		gas supply demand charges, (b) underground storage capacity costs and (c) peaking resource capacity costs are allocated between Northern's Maine and New Hampshire Divisions. Northern's total demand costs are allocated to the Maine and New Hampshire Divisions by application of the Modified Proportional Responsibility ("MPR") methodology. The
 10 11 12 13 14 15 		gas supply demand charges, (b) underground storage capacity costs and (c) peaking resource capacity costs are allocated between Northern's Maine and New Hampshire Divisions. Northern's total demand costs are allocated to the Maine and New Hampshire Divisions by application of the Modified Proportional Responsibility ("MPR") methodology. The MPR methodology allocates fixed gas costs to the Maine and New Hampshire Divisions

¹ Pipeline, storage and peaking.

1		demand ² in that month. This MPR methodology was approved by the Commission
2		pursuant to settlements in Docket Nos. 2005-087 and 2005-273.
3		As I will explain in more detail below, I used the MPR methodology to allocate
4		Northern's projected total annual demand costs to the Maine and New Hampshire
5		Divisions for the 2024 / 2025 Winter Season (November 2024 through April 2025) and
6		for the 2025 Summer Season (May 2025 through October 2025).
7	Q.	Please give an overview of the process you followed to derive the MPR allocator
8		used to assign Northern's projected total demand costs for the 12-month period
9		November 2024 through October 2025 to the Maine and New Hampshire Divisions.
10	A.	I have prepared Attachment NUI-CAK-1 to explain how I calculated the MPR factors
11		and how I used these factors to allocate Northern's total demand costs for November
12		2024 through October 2025 ("COG Period") to the Maine and New Hampshire Divisions.
13		In this attachment, I distinguish between two types of demand costs; Capacity-related
14		demand costs and Off-system Peaking demand costs. Capacity-related demand costs
15		reflect the resource costs of Pipeline, Storage and On-system Peaking supplies, as well as
16		credits for capacity release and asset management agreements, for both Sales Service and
17		capacity assigned Delivery Service customers. Off-system Peaking demand costs reflect

² For the MPR allocation process, Design Year demand is calculated as the actual demand to Maine and New Hampshire Division's firm sales and assigned capacity / non-grandfathered transportation customers for the period May 2023 through April 2024, adjusted to reflect design weather conditions from November through April and normal weather conditions from May through October.

1	the costs associated with Northern's Off-system Peaking resources used for Sales Service
2	customers only.
3	Attachment NUI-CAK-1 is arranged in the following six sections;
4	(1) Total Capacity-related demand costs, by type of resource (Pipeline, Storage,
5	On-system Peaking, and other capacity related costs and credits), are summarized
6	in Lines 1 through 14.
7	(2) Capacity-related demand costs for each resource type are allocated to each
8	month in the COG Period according to MPR allocators that were developed
9	specifically for each resource type, as shown on Lines 16 through 52, where the
10	MPR allocators are based on design year sendout volumes for each resource type.
11	(3) Capacity-related demand costs that are allocated to each month in Section 2
12	are allocated to the Maine and New Hampshire Divisions according to design year
13	total firm sendout as shown in Lines 53 through 96.
14	4) Off-system Peaking demand costs, shown on Line 97, are allocated to each
15	month in the Winter Period according to MPR allocators that were developed
16	based on the dispatch of Sales Service customer demand as shown in Lines 99
17	through 106.
18	5) Off-system Peaking demand costs that are allocated to each month in Section 4
19	are then allocated to the Maine and New Hampshire Divisions according to design
20	year total Sales Service sendout as shown in Lines 108 through 123.

1		6) Total Demand costs for each division are then calculated by applying the ratio
2		of each division's Capacity-related demand costs and Off-system Peaking demand
3		costs to Northern's total costs as shown in Lines 124 through 137. From these
4		calculations, the PR allocators are determined. As shown, for November 2024
5		through October 2025, the PR allocators are 59.47% for the Company's Maine
6		Division and 40.53% for the New Hampshire Division.
7		I note the second column of Pages 2, 4 and 6 of Attachment NUI-CAK-1 describes the
8		sources of data and explains the calculations included in Attachment NUI-CAK-1, on
9		Pages 1, 3 and 5. Similar explanations are included in other attachments referenced in
10		my testimony.
10 11	Q.	my testimony. Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated
	Q.	
11	Q. A.	Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated
11 12		Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated separately from all other demands costs?
11 12 13		Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated separately from all other demands costs? Northern no longer purchases Off-system Peaking supplies for capacity-assigned
11 12 13 14		 Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated separately from all other demands costs? Northern no longer purchases Off-system Peaking supplies for capacity-assigned Delivery Service customers in either its Maine or New Hampshire Divisions³.
 11 12 13 14 15 		 Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated separately from all other demands costs? Northern no longer purchases Off-system Peaking supplies for capacity-assigned Delivery Service customers in either its Maine or New Hampshire Divisions³. Accordingly, these costs should not be included in the allocation of Capacity-related

³ Northern ceased purchasing Off-system Peaking supplies for capacity assignment customers in the New Hampshire Division effective November 1, 2016.

- associated with Sales Service customers should be allocated between divisions based on
 the dispatch of Sales Service load only.
- Q. Please explain how you allocated Northern's forecasted total Capacity-related
 demand costs to the months in the COG Period.
- A. Lines 3 through 5 of Attachment NUI-CAK-1 show Northern's total projected demand
 costs for Pipeline, Storage, and On-system Peaking resources⁴. Also included are
 estimates of Northern's Capacity Release and Asset Management revenues, which I have
 summarized in Lines 8 and 9 of Attachment NUI-CAK-1.
- The development of the MPR factors and the application of these factors to allocate 9 Pipeline, Storage and On-system Peaking demand costs to each month are shown on 10 Attachment NUI-CAK-1, Lines 20 through 25, Lines 36 through 43 and Lines 47 through 11 52, respectively. In addition, Lines 29 through 32 show the calculation of the Storage 12 Injection Fees, by month. Storage Injection Fees represent capacity costs that comprise 13 the portion of Northern's pipeline capacity that is used to transport gas to and from the 14 underground storage fields. If the Company expects to incur such fees, they are added to 15 16 the Storage demand costs, as shown on Line 42, and subtracted from the Pipeline demand costs, as shown on Line 57. However, as indicated, for the 2024 / 2025 Winter Season, 17 storage injection fees are zero. This is because Northern is purchasing storage gas 18

⁴ The forecast of demand costs is provided in Attachment NUI-FXW-5.

1	directly at the underground storage facility thereby eliminating the need for transportation
2	to the facility and the associated transfer of costs.

3 Northern's fixed capacity costs that have been allocated to each month are summarized

4 and consolidated on Lines 54 through 60. Lines 54, 55 and 56 repeat the Pipeline,

5 Storage, and On-system Peaking capacity costs from Lines 25, 43, and 52. Line 57

6 shows the credit to Pipeline capacity costs that is related to the Storage Injection Fees that

7 have been added to the Storage capacity costs⁵. In addition, 1/6 of total Capacity Release

8 and Asset Management revenues are allocated evenly to each month from November

9 through April, as shown on Lines 58 and 59.

10Q.How are the total Capacity-related Demand Costs and the Capacity Release and11Asset Management revenues, which have been allocated to each month according to12the process that you described above, allocated to the Maine and New Hampshire

13 **Divisions**?

14 A. Northern's Total Capacity-related Demand Costs⁶ and Capacity Release and Asset

15 Management revenues allocated to each month are then allocated to the Maine and New

16 Hampshire Divisions according to the design year total firm sendout for both divisions,

- 17 which is shown in Lines 65 and 66 of Attachment NUI-CAK-1; the calculated
- 18 percentages are provided in Lines 70 and 71. In accordance with Commission-approved

⁵ As indicated, for the 2024 / 2025 Winter Season, the credit is zero due to purchases being made directly at the storage facility.

⁶ Costs reflect pipeline, storage and on-system peaking resources.

1		settlements ⁷ , the design-year firm sendout quantities for the COG Period as shown on
2		Lines 65 and 66 are the sendout quantities required to serve the Maine and New
3		Hampshire Divisions' firm sales and transportation customers that are subject to the
4		assigned-capacity requirements under design winter conditions from May 2023 to April
5		2024.
6	Q.	Is the same process used for allocating Capacity-related demand costs also used for
7		Off-system Peaking demand costs?
8	A.	Yes. Lines 101 through 106 of Attachment NUI-CAK-1 use the same process for
9		allocating resource costs to each month as that used in Lines 47 through 52. Also, Lines
10		109 through 123 use the same process for applying monthly costs to divisional sendout as
11		used in Lines 62 through 77. As shown in Lines 121 and 122, Off-system Peaking
12		demand costs are allocated to each division based on the design winter dispatch of Sales
13		Service customers only.
14	Q.	Finally, how are the combined PR Allocators for both Capacity-related and Sales
15		Service demands calculated?
16	А.	The combined PR allocators are based on the percentage of total Capacity-related and
17		Off-System Peaking PRs costs allocated to each division. Lines 125 and 130 of
18		Attachment NUI-CAK-1 show the Capacity-related PR allocators while Lines 126 and
19		131 show the corresponding values for Off-system peaking PR allocators. Lines 127 and

⁷ These settlements were approved in Maine PUC Docket Nos. 2005-87 and 2005-273.

1		132 show the combined PR Allocators, 59.47% for Maine and 40.53% for New
2		Hampshire, used to assign costs between divisions.
3		B. <u>Allocation of New Hampshire Demand-Related Costs to Seasons</u>
4	Q.	Please explain how the projected annual demand-related costs that are allocated to
5		the New Hampshire Division are then assigned to be recovered in the 2024 / 2025
6		Winter Season and the 2025 Summer Season.
7	A.	Northern allocates costs between the seasons as well as among customer classes through
8		the Simplified Market Based Allocation ("SMBA") method. I have prepared Attachment
9		NUI-CAK-2 to show detailed support for the allocation of New Hampshire Division
10		Sales Service demand costs to months, and then to seasons utilizing the SMBA method.
11		Lines 2 through 4 of Attachment NUI-CAK-2 summarize the Pipeline and Storage and
12		On-system Peaking demand costs that are allocated to the New Hampshire Division, as
13		determined in Attachment NUI-CAK-1. Lines 12 through 22 of Attachment NUI-CAK-2
14		show the calculation of Net Demand Costs for firm sales customers, which is Total
15		Demand Costs allocated to the New Hampshire Division less the capacity assignment
16		revenues from New Hampshire Division transportation customers. The Winter and
17		Summer Season rates that will be charged to New Hampshire Division firm sales
18		customers from November 2024 through October 2025 will recover: (1) the Net Pipeline

1	Demand costs shown on Line 19; (2) the Net Storage costs shown on Line 20; and (3) the
2	On-system Peaking demand costs shown on Line 21 of Attachment NUI-CAK-2.8
3	Lines 26 through 40 of Attachment NUI-CAK-2 show the calculation of pipeline demand
4	costs for sales customers, separated into (1) Base Use demand costs and (2) Remaining
5	Use demand costs. ⁹ The Base Use that is shown on Line 31 of Attachment NUI-CAK-2
6	is the average projected daily use in July and August 2025 ¹⁰ for all firm sales classes. The
7	Base Pipeline Use Demand cost that is shown on Line 39 of Attachment NUI-CAK-2 is
8	calculated by multiplying Firm Sales Base Use, shown on Line 31, times the weighted
9	average annual cost of pipeline capacity, as shown on Line 35 of Attachment NUI-CAK-
10	2. Line 40 shows the Remaining Pipeline Use Net Pipeline Demand costs for sales
11	customers, which is the difference between total net Pipeline and Product Demand costs
12	and Base Pipeline Use demand costs.
13	Lines 44 through 49 of Attachment NUI-CAK-2 show the calculation of the Proportional
14	Responsibility ("PR") allocator that is used to allocate (a) Remaining Use Net Pipeline
15	Demand costs and (b) Storage and On-system Peaking costs related to Firm Sales
16	customers for twelve months, November 2024 through October 2025. Lines 51 through
17	56 show the calculation of the PR factor that is used to allocate (c) Capacity Release and
18	Asset Management revenues, (d) Interruptible margins and Re-entry Rate and Conversion

⁸ These direct demand costs are adjusted by Off-system Peaking (Line 74) Capacity Release and Asset Management revenues (Line 77); Interruptible margins (Line 78); and Re-Entry Rate and Conversion Rate Credits (Line 79).

⁹ This separation is necessary because the SMBA allocation methodology allocates Base Use demand costs to seasons on a different basis than Remaining Use demand costs.

¹⁰ Average Projected Daily demand by class in July and August is shown in Attachment NUI-CAK-3, Line 48.

1		Rate revenues and (e) Off-system Peaking Supplies to the Winter Season months,
2		November 2024 through April 2025. These PR factors are summarized by type of
3		capacity cost at lines 60 through 65. Line 60 of Attachment NUI-CAK-2 shows that
4		1/12 th of the net annual Base Use pipeline demand costs is allocated to each month, and
5		Lines 69 through 79 show the detailed allocation to months of all components that are
6		included in the Total Net Demand Costs, based on the "All Months" and "Peak Months
7		Only" allocation factors.
8		As shown on Line 80 of Attachment NUI-CAK-2, \$11,714,147 of total direct demand
9		costs are allocated to the 2024 / 2025 Winter Season, and \$1,545,197 is allocated to the
10		2025 Summer Season.
11 12		C. <u>Allocation of New Hampshire Winter and Summer Season Demand Costs to</u> <u>Customer Classes</u>
13	Q.	Please explain how the New Hampshire Division Sales Service demand-related costs
14		that were allocated to the Winter and Summer Seasons are allocated to each sales
15		rate class.
16	A.	The New Hampshire Division Sales Service Base Use demand-related costs for each
17		month are allocated to each Sales Service rate class based on that class's pro rata share of
18		total forecasted firm sendout to sales customers under normal weather conditions in that
19		month. The Remaining Use demand-related costs for each month are allocated to each
20		Sales Service rate class based on that class's pro rata share of total forecasted firm sales
21		design day, temperature-sensitive demand.

1	I have prepared Attachment NUI-CAK-3 to show the calculation of the factors that are
2	used to allocate New Hampshire Division Sales Service Winter and Summer Season Base
3	Use demand-related costs for each month to each sales service rate class. The firm sales
4	forecast, shown on Lines 1 to 16, and the firm sendout forecast by class, shown on Lines
5	18 to 33, are used to determine: daily Base Use, shown on Lines 35 to 48; Base Use
6	sendout, shown on Lines 49 to 64; and Remaining Use sendout, shown on Lines 66 to 80.
7	The Base and Remaining Use sendout values for each class are used to allocate the
8	seasonal demand costs to the New Hampshire Division firm sales classes.
9	I have prepared Attachment NUI-CAK-4 to show the allocation of Winter and Summer
10	Season New Hampshire Division Net Demand costs to each firm sales rate class, based
11	on (a) the New Hampshire Net Demand costs that are allocated to each Winter Season
12	and Summer Season month as shown in Attachment NUI-CAK-2, Lines 69 through 79,
13	and (b) the rate class allocators as shown Attachment NUI-CAK-3, Lines 49 to 80. The
14	Base Use Sendout allocators, which are used to allocate base demand costs to firm sales
15	rate classes, are shown on Lines 3 through 22 of Attachment NUI-CAK-4. The
16	Remaining Use Design Day allocators, which are used to allocate all other demand-
17	related costs and credits to firm Sales Service rate classes, are shown on Lines 39 through
18	48.
19	The following table shows the location in Attachment NUI-CAK-4 of the Net Demand-
20	related costs and credits by component allocated to each firm sales rate class:

Demand Cost Component	Attachment NUI-CAK-4
Base Capacity	Lines 24 through 37
Remaining Pipeline Capacity	Lines 50 through 66

Peaking and Storage Demand	Lines 68 through 84
Off-system Peaking Demand	Lines 86 through 102
Capacity Release & Asset Mgmt. Revenues	Lines 105 through 121
Interruptible, Re-entry & Conversion Revenues	Lines 123 through 139
Total Non-Base Capacity Costs	Lines 141 through 155
Total Capacity Costs	Lines 157 through 175

1

2

D. Allocation of Variable Costs

Q. Please provide a description of Variable costs, and explain how Variable costs are allocated to Northern's Maine and New Hampshire Divisions.

- A. Variable costs include commodity costs and variable pipeline and storage costs¹¹ for firm
 sales. Mr. Wells prepared a forecast of Northern's variable gas costs by month, which is
 provided in Attachment NUI-FXW-8. These variable gas costs have been allocated
 between the Maine and New Hampshire Divisions based on each Division's percentage
 of monthly firm normal sendout. I have prepared Attachment NUI-CAK-5 to show the
 allocation of the 2024 / 2025 Winter and Summer Season variable gas costs between the
 Maine and New Hampshire Divisions.
- 12 Q. Please explain Attachment NUI-CAK-5.

A. Lines 1 through 10 of Attachment NUI-CAK-5 show the projected sendout volumes, by
 month and by resource type, which Mr. Wells provided to me. Mr. Wells also provided
 the projected variable costs by month and by type of gas supply resource that are shown
 on Lines 19, 20 and 21 of Attachment NUI-CAK-5. This Attachment also shows

¹¹ Variable costs include pipeline usage/commodity charges, pipeline fuel retention, storage commodity injection and withdrawal charges, and storage fuel retention.

	projected Off-system Sales revenues on Line 22. The pipeline commodity costs shown
	on Lines 12, 17 and 19 are based on projected NYMEX prices as of September 5, 2024.
	The total variable gas costs for firm Sales Service, on Lines 24 and 36, are allocated to
	the Maine and New Hampshire Divisions based on projected monthly firm sales sendout
	in each division; the allocators are shown on Lines 40, 41, 45 and 46. Attachment NUI-
	CAK-5 also shows the allocation of Commodity costs to the two Divisions, (Maine
	Division: Lines 51 through 57; New Hampshire Division: Lines 59 through 65). Finally,
	Attachment NUI-CAK-5 shows the inventory finance costs for underground storage and
	LNG resources (Lines 82 to 84), the allocation of these costs to the Maine and New
	Hampshire Divisions (Lines 87 to 89), and the allocation of New Hampshire Division's
	allocated share of annual inventory finance costs to the Winter Season, using the firm
	sales remaining sendout allocators (Lines 98 to 100).
	I have prepared Attachment NUI-CAK-6 in order to separate New Hampshire commodity
	costs into base use and remaining use components. This attachment also calculates the
	per unit costs of pipeline, storage and peaking expenses.
Q.	Please explain how you calculated the inventory finance costs for underground
	storage and LNG resources that are included in Attachment NUI-CAK-5.
А.	The allocation of inventory finance charges to the Company's Maine and New
	Hampshire Divisions are shown on Lines 87 and 88 of Attachment NUI-CAK-5. These
	inventory finance costs, as shown on Lines 82 and 83 were calculated based on
	forecasted inventory activity calculations which are shown in Attachment NUI-CAK-7.

1	Q.	Please explain how the New Hampshire Division variable gas costs for sales
2		customers are allocated to each firm sales class.
3	A.	I have prepared Attachment NUI-CAK-8 to show the allocation of New Hampshire
4		Division variable gas costs to each firm sales class. Lines 1 to 21 show the calculation of
5		the Base Sendout allocators by rate class. Lines 22 to 35 show the allocation of the
6		monthly New Hampshire Division Base Commodity costs ¹² to each rate class. Lines 37
7		to 56 show the calculation of the Remaining Sendout allocators by rate class. Lines 57 to
8		70 show the allocation of the monthly New Hampshire Division Remaining Commodity
9		costs ¹³ to each rate class. A summary of all commodity costs allocated to the New
10		Hampshire Division's firm sales classes is shown on Lines 71 to 84.
11		E. <u>Adjustments</u>
12	Q.	Once direct demand and commodity costs are determined for the rate classes, are
13		any adjustments made?
14	A.	Yes. Since Residential COG rates are based on the average cost of gas (total seasonal
15		cost of gas divided by total seasonal demand), and the High and Low Load Factor
16		Commercial and Industrial ("C&I") COG rates are determined through the SMBA
17		method, an adjustment to C&I COG rates is required in order to properly recover all
18		costs. Attachment NUI-CAK-9 adjusts C&I COG rates in order to account for differences

¹² New Hampshire Division Base Commodity costs by month are shown in Attachment NUI-CAK-6, Line 34.

¹³ New Hampshire Division Remaining Commodity costs by month are shown in Attachment NUI-CAK-6, Line 35.

1		between the average cost and SMBA methodologies. This adjustment is based on the
2		difference in total projected costs that would be assigned to Residential customers under
3		the two methodologies, and applies the difference to the C&I customer classes based on
4		their percentage of total allocated C&I demand and commodity costs.
5		F. <u>Refunds</u>
6	Q.	Are there any refunds included in this filing?
7	A.	There are no refunds included in this filing.
8		G. Indirect Costs and Miscellaneous Charges / Credits
9	Q.	Please explain the 2023 / 2024 Annual COG Reconciliation.
10	A.	The 2023 / 2024 Annual COG Reconciliation is provided as Attachment NUI-CAK-10.
11		As Page 1 of this Attachment indicates, the projected October 31, 2024 annual ending
12		balance is an under-collection of \$197,877. This balance is comprised of a Winter
13		Season under-collection of \$287,155 and a Summer Season over-collection of (\$89,278).
14	Q.	How are the respective Summer and Winter reconciliation balances calculated?
15	A.	The end of season balances for the Summer and Winter periods are calculated in
16		Appendix F of the reconciliation. For the Winter Season, the ending balance is
17		determined by first calculating the difference between the target balance ¹⁴ and actual
18		April 30, 2024 balance as shown on Lines 1 through 4. This amount reflects the total

¹⁴ An explanation of the target balance is provided on Page 30.

1		cost of gas of which the working capital and bad debt balances (lines 4 & 5) must then be
2		subtracted in order to determine the balance for demand and commodity, an under-
3		collection of \$363,431 (Line 4). From this amount, an adjustment must be made for
4		changes in asset management agreement ("AMA") revenues during the Summer Season.
5		These AMA revenues of \$76,829 are shown on Line 6 of Attachment F. Combining the
6		commodity and demand balance (Line 4) with AMA revenue and interest (Lines 6 & 8)
7		equals the Winter Season balance of \$287,155 (Line 10). The Summer Season balance,
8		(\$89,278) (Line 14), is determined by subtracting the Winter Season balance (Line 10)
9		from the annual reconciliation balance (Line 12).
10	Q.	Please explain why all Summer Season AMA revenues are factored into the Winter
11		Season ending balance.
11 12	A.	Season ending balance. AMA revenue is updated annually beginning in April of each year and all revenues are
	A.	
12	A.	AMA revenue is updated annually beginning in April of each year and all revenues are
12 13	A.	AMA revenue is updated annually beginning in April of each year and all revenues are received in twelve equal monthly installments. In addition, for rate calculation purposes,
12 13 14	A.	AMA revenue is updated annually beginning in April of each year and all revenues are received in twelve equal monthly installments. In addition, for rate calculation purposes, all AMA revenues are allocated to the Winter Season as shown in Attachment NUI-
12 13 14 15	A.	AMA revenue is updated annually beginning in April of each year and all revenues are received in twelve equal monthly installments. In addition, for rate calculation purposes, all AMA revenues are allocated to the Winter Season as shown in Attachment NUI- CAK-2, Line 77. For the period April 2024 through March 2025, AMA revenues are
12 13 14 15 16	A.	AMA revenue is updated annually beginning in April of each year and all revenues are received in twelve equal monthly installments. In addition, for rate calculation purposes, all AMA revenues are allocated to the Winter Season as shown in Attachment NUI- CAK-2, Line 77. For the period April 2024 through March 2025, AMA revenues are slightly higher than in the prior year. Therefore, the credits from the increase in AMA
12 13 14 15 16 17	A.	AMA revenue is updated annually beginning in April of each year and all revenues are received in twelve equal monthly installments. In addition, for rate calculation purposes, all AMA revenues are allocated to the Winter Season as shown in Attachment NUI- CAK-2, Line 77. For the period April 2024 through March 2025, AMA revenues are slightly higher than in the prior year. Therefore, the credits from the increase in AMA revenue must also be flowed back to the Winter Season. Due to the timing of the change
12 13 14 15 16 17 18	A.	AMA revenue is updated annually beginning in April of each year and all revenues are received in twelve equal monthly installments. In addition, for rate calculation purposes, all AMA revenues are allocated to the Winter Season as shown in Attachment NUI- CAK-2, Line 77. For the period April 2024 through March 2025, AMA revenues are slightly higher than in the prior year. Therefore, the credits from the increase in AMA revenue must also be flowed back to the Winter Season. Due to the timing of the change in AMA revenues, Winter Season rates cannot be adjusted during the winter months and

Q. How did Northern develop its current projected Bad Debt expense for inclusion in the 2024 / 2025 Winter Season and 2025 Summer Season COGs?

A. To develop its bad debt projections, Northern forecasts 12 months of customer write-offs 3 for both supply and distribution service. This forecast is based on actual experience and 4 any recent unexpected increases or decreases in the number of customer write-offs. As 5 shown on Line 14 of Attachment NUI-CAK-11, for the twelve months ended December 6 31, 2025, Northern projects annual Bad Debt expense to be \$425,000. The projected 7 annual Bad Debt expense was then allocated to supply (42%) and distribution (58%) 8 9 services based on the actual Bad Debt experience of these components over the 12months ended July 31, 2024. This is shown on Lines 7 and 5, respectively, of 10 Attachment NUI-CAK-11. The annual Bad Debt expense forecast allocated to supply 11 was then allocated further to the 2024 / 2025 Winter Season (86%) and 2025 Summer 12 Season (14%) based on the allocation of direct demand costs between the Winter and 13 Summer seasons. This breakout establishes the Winter Season Bad Debt of \$152,555 14 (Line 16) and a Summer Season Bad Debt expense of \$25,442, (Line 17). I have also 15 included these expenses at lines 36 and 144 in Attachment NUI-CAK-13. 16

17 Q. How were Northern's Working Capital Costs derived?

The Working Capital Costs were based on a formula approved in Northern's 2021 base rate proceeding, Docket No. DG 21-104. This formula derives the working capital percentage by dividing the supply related net lag of 9.30 days by 366 days and then multiplying the result by the prime interest rate. Based on the current prime rate of 8.5%, the Working Capital Percentage is 0.2160%. This percentage, when multiplied by each

1		season's forecasted Direct Cost of Gas, yields a 2024 / 2025 Winter Season Working
2		Capital Cost of \$44,965 and a 2025 Summer Season Working Capital Cost of \$6,820.
3		These amounts are included in Attachment NUI-CAK-13 at lines 29 and 138. The
4		allocation of Working Capital Costs to Summer and Winter is based on the percentage of
5		sales in their respective season.
6	Q.	Please explain the costs related to the Company's local production and storage
7		facilities, and Other Administrative and General ("A&G") expenses that are
8		included in the Winter Season COG.
9	А.	Northern's local production and storage costs were set at \$214,538 in the Company's
10		most recent base rate case proceeding, Docket No. DG 21-104, and are recovered solely
11		in the Winter Season. Also, in the last base rate case proceeding A&G expenses were set
12		at \$611,875. Of this amount, \$493,751 is recovered from sales customers in the Winter
13		Season and \$118,124 is recovered in the Summer Season. These amounts are included in
14		Attachment NUI-CAK-13 on lines 40, 260, 42 and 150 respectively.
15	Q.	Please explain the calculation of the Winter and Summer interest expense.
16	А.	Interest expense is calculated in Attachment NUI-CAK-12 (Line 98) and is based on the
17		latest prime rate and expected costs and revenues during the Winter and Summer seasons.
18		Winter and Summer period interest expense is also shown on Attachment NUI-CAK-13,
19		on Lines 21 and 130 respectively

H. <u>Cost of Gas Factor</u>

2	Q.	Please explain the calculation of the proposed New Hampshire Division COG
3		Factors or Rates for the 2024 / 2025 Winter Season and the 2025 Summer Season.
4	A.	Attachment NUI-CAK-13, which is similar to the Company's COG tariff Pages 40
5		through 43, has been prepared to explain the calculation of the proposed 2024 / 2025
6		Winter and 2025 Summer COG Factors. Attachment NUI-CAK-13 shows the calculation
7		of the Winter and Summer Season COGs for each of Northern's three COG Rate Groups:
8		(1) Residential classes R-5, R-6 and R-10; (2) C&I Low Winter use classes G-50, G-51
9		and G-52; and (3) C&I High Winter use classes G-40, G-41 and G-42.
10		As shown on Page 3 of the Attachment, the 2024 / 2025 Winter Season projected
11		Average COG is \$0.6553 per therm (Line 66), which is the sum of the average Total
12		Direct COG, \$0.6242 per therm (Line 59) and the average Indirect COG, \$0.0311 per
13		therm (Line 63). As shown of Page 7 of the Attachment, the 2025 Summer Season, the
14		projected Average COG is \$0.3884 per therm (Line 175), which is the sum of the average
15		Total Direct COG, \$0.3958 per therm (Line 168) and the average Indirect COG,
16		(\$0.0074) per therm (Line 172).
17		Also shown on the Attachment are the proposed Residential COG Factors for the 2024 /
1/		
18		2025 Winter Period (Line 68) and the 2025 Summer Period (Line 177), the proposed C&I
19		Low Winter Use COG Factors for the 2024 / 2025 Winter Period (Line 72) and 2025
20		Summer Period (Line 181), and the proposed C&I High Winter Use COG Factors the
21		Winter 2024 / 2025 Winter Period (Line 92) and 2025 Summer Period (Line 201).

1	Q.	Please explain the calculation of the Working Capital allowances for the 2024 / 2025
2		Winter Season.
3		The total Working Capital allowance, \$43,420 as shown on Line 33 of Attachment NUI-
4		CAK-13 is the sum of the current period working capital allowance (Line 29) plus the
5		prior seasonal allocation of Working Capital reconciliation balance (Line 31).
6	Q.	Please explain the calculation of the Bad Debt allowance for 2024 / 2025 Winter
7		Season.
8	A.	The Bad Debt allowance, \$113,655 (Line 38), is the sum of the current period bad debt
9		allowance (Line 36) plus the seasonal allocation of the Bad Debt reconciliation balance
10		(Line 37).
11	Q.	Please explain the calculation of the 2025 Summer Season Working Capital
12		allowances.
13		The total Working Capital allowance, \$6,450 as shown on Line 141 of Attachment NUI-
14		CAK-13 is the sum of the current period working capital allowance (Line 138) plus the
15		prior seasonal allocations of Working Capital reconciliation balance (Line 139).
16	Q.	Please explain the calculation of the Bad Debt allowance for 2025 Summer Season.
17	А.	The Bad Debt allowance, \$18,955 (Line 146), is the sum of the current period bad debt
18		allowances (Line 144), plus the seasonal allocations of the Bad Debt reconciliation
19		balance (Line 145).

1	Q.	Is Northern proposing any credits to the COG for transportation customers
2		returning to Sales Service?
3	A.	Northern is projecting a combined total of \$25,000 in revenues associated with the Re-
4		entry Rate and Conversion Rate. This amount is included in Attachment NUI-CAK-13 at
5		Line 14.
6		I. <u>Summary Analyses</u>
7	Q.	How does the proposed average 2024 / 2025 Winter Season Residential COG rate
8		compare to the average 2023 / 2024 Winter Season Residential COG rate?
9	A.	Attachment NUI-CAK-14 compares the proposed 2024 / 2025 Winter Season Residential
10		COG rate to the average 2023 / 2024 Winter Season Residential COG rate. As this
11		Attachment shows, the proposed 2024 / 2025 Winter Season COG rate, \$0.6553 per
12		therm, is \$0.0461 per therm lower than the average 2023 / 2024 Winter Season COG rate,
13		\$0.7014 per therm. The decrease is due to lower commodity costs (especially for peaking
14		supplies), a slight increase in AMA revenues and an increase in projected sales. These
15		factors are partially offset by higher demand costs and a reconciliation under-collection
16		compared to an over-collection the prior year. The change in costs, projected sales and
17		AMA revenues for Residential customers is also applicable to C&I customers.
18	Q.	How does the proposed 2025 Summer Season Residential COG rate compare to the
19		filed 2023 Summer Season COG rate?
20	A.	Attachment NUI-CAK-14 also compares the proposed 2025 Summer Season Residential
21		COG rate to the average 2024 Summer Season Residential COG rate. As this

1		Attachment indicates, the proposed 2025 Summer Season average COG rate, \$0.3884 per
2		therm, is \$0.0598 per therm higher than the 2024 Summer Season Average COG,
3		\$0.3286 per therm. The rate increase is due to a higher level of NYMEX prices projected
4		for the 2025 Summer Season compared to the sharp drop in NYMEX prices that occurred
5		during the spring and summer of 2024. This change in COG rates for Residential
6		customers is also applicable to C&I customers.
7	Q.	Why are the proposed Winter COG rates lower than last year but the proposed
8		Summer COG rate higher than the current Summer COG rates?
9	А.	The reason for this difference is largely due to reductions in NYMEX Summer Season
10		prices. In last year's annual COG filing, the Residential Summer Season COG rate was
11		initially set at \$0.5117 per therm. However, due to a significant reduction in NYMEX
12		prices in the spring of 2024, the Company reduced COG rates effective May 1st and the
13		residential COG fell to \$0.3569 per therm. Throughout the summer of 2024, NYMEX
14		continued to decline and COG rates were further reduced by \$0.0566 per them on August
15		1 st . This downward pressure on NYMEX prices has resulted in 2025 Summer Season
16		COG rates being higher than the average 2024 Summer Season COG rates.
17	III.	ANCILLARY CHARGES & SUPPORTING INFORMATION
18	Q.	What ancillary charges and schedules have you updated for this filing?
19	A.	I have provided updates to ancillary charges and supporting information to four separate
20		schedules. First, I have updated the Supplier Balancing Charge to be effective November
21		1, 2024. The proposed charge, \$0.82 per MMBtu, is unchanged from last year's rate. I

1	have prepared Attachment NUI-CAK-15 to support the updated Supplier Balancing
2	Charge calculation.
3	Second, I have updated the On-system Peaking Demand charge to be effective November
4	1, 2024 through April 30, 2025. The proposed charge is \$25.66 per Dth. Support for this
5	charge is provided by Mr. Wells in Attachment NUI-FXW-5. Both the Supplier
6	Balancing Charge and On-system Peaking Demand Charge are included in Tariff Page
7	No. 141, Appendix A.
8	Third, I have updated Tariff Page 156 which updates the capacity allocation percentages
9	for all non-exempt Delivery Service customers for the period November 1, 2024 through
10	October 31, 2025. The calculations supporting the capacity allocators are provided by
11	Mr. Wells in Attachment NUI-FXW-7.
12	Lastly, I have updated the Re-entry Rates and Conversion Rates to be effective
13	November 1, 2024 through April 30, 2025, and May 1, 2025 through October 31, 2025.
14	For the Winter Season, the Re-entry Rate is \$0.0000 per therm for both high and low load
15	factor customers. For the Summer Season the Re-entry Rate is \$0.0161 for the both the
16	high and low load factor C&I rate classes. In the Winter Season, the proposed Conversion
17	Rate is \$0.3135 per therm for High Load Factor customers and \$0.2634 per therm for
18	Low Load Factor C&I customers. In the Summer Season, the Conversion Rate is \$0.0161
19	per therm for both High and Low Load Factor customers. These rates appear on Tariff
20	Page No. 158, Appendix D. Support for these rates is provided by Mr. Wells in
21	Attachment NUI-FXW-11.

1 Q. Are you providing any additional schedules included in this filing?

2	A.	Yes, Attachments NUI-CAK-16, NUI-CAK-17 and NUI-CAK-18 have not been
3		discussed in my testimony. Attachment NUI-CAK-16 provides the historical revenues
4		from the Re-entry Rate and Conversion Rate Surcharges that are applied to transportation
5		customers returning to the Company's Sales Service over the past year. Attachment NUI-
6		CAK-17 provides Northern's short-term debt limit calculation for the period November
7		2024 through October 2025.
8		Attachment NUI-CAK-18 provides the target balance for the end of the 2024 / 2025
9		Winter Season. As indicated on Line 58 of that Attachment, Northern projects a target
10		balance over-collection of \$5,069,336 on April 30, 2025 ¹⁵ . Differences between the
11		target balance and the projected ending season balance will determine if COG rates need
12		to be adjusted during the winter season.
13	Q.	Why does Northern seek a \$5 million over-collection as a target balance at the end
14		of the Winter Season?
15	A.	The bulk of gas sales occur during the winter period. As a result, most demand costs are
10	1.	
16		recovered through rates during the Winter. However, most demand costs are billed in
17		equal amounts each month throughout the year. Given that the annual COG season
18		begins November 1 st , the difference between when costs are recovered and when they are
19		incurred results in an over-collection at the end of the Winter Season. Therefore, in order

¹⁵ This over-collection is projected to be near \$0 by October 31, 2025.

1	to properly determine if Northern's COG rates need adjusting during the winter and
2	summer seasons, the Company must establish an April 30th target balance that reflects
3	the Company being over-collected at the end of the Winter Season. If, during the Winter
4	Season, Northern projects its balance to be a significantly smaller over-collection than the
5	target, then the Company is under-collecting and must increase rates in order to better
6	match costs and revenues. Conversely, a project balance that is a significantly larger than
7	the target represents an over-collection and COG rates will need to be lowered. During
8	the Summer Season the opposite occurs and the Company under-recovers its demand
9	costs by the same amount. Over the course of the year (November through October), the
10	target under and over-collections will offset each other.

11 IV. FINAL MATTERS

Q. Will the Company propose to revise the 2024 / 2025 Winter Season COG rates if it receives any new or updated information on gas supplier or transportation rates?

14 A. If requested by the Commission or Department of Energy Staff, the Company will file a revised calculation of its 2024 / 2025 Winter and 2025 Summer Season COG rates to 15 reflect updated gas and pipeline transportation cost projections as well as any other cost 16 information a few weeks prior to the effective date of the Winter Season, November 1, 17 2024. In addition, Attachment NUI-CAK-12 projects Northern's monthly COG 18 over/under collections, balances and interest. Northern will update this schedule each 19 month with actual costs and updated NYMEX prices in order to determine the variance 20 between the latest projected end-of-season balance and the target end-of-season balance 21 22 established in this COG filing. If, during the upcoming Winter Season, the Company's

14	Q.	Does this conclude your testimony?
13		initially-approved 2025 Summer Period COG.
12		further action by the Commission for any decrease and for increases up to 25% of the
11		2025 Summer COG for the subsequent month. These rates will take effect without
10		more of total Summer Period projected gas costs, the Company will file to change the
9		2024 ending balance varies from the target Summer Season ending balance by 4% or
8		during the upcoming Summer Season, the Company's updated projected October 31,
7		COG when the projected annual variance exceeds 4% of the target projected gas costs. If,
6		The Company will also file proposed changes to the approved 2025 Summer Season
5		initially-approved 2024 / 2025 Winter Season COG rates.
4		further action by the Commission for any decrease and for increases up to 25% of the
3		2025 Winter Season COG for the subsequent month. These rates will take effect without
2		more of total target projected gas costs, then the Company will file to adjust the 2024 /
1		monthly projected April 30, 2025 ending balance varies from the target balance by 2% or

15 A. Yes it does.