THE STATE OF NEW HAMPSHIRE

BEFORE

THE PUBLIC UTILITIES COMMISSION

DG 13-086

NORTHERN UTILITIES, INC.

DIRECT TESTIMONY OF

JAMES D. SIMPSON

EXHIBIT JDS-1

Table of Contents

| | | | Page |
|-------------|-----|--|------|
| I. | | RODUCTION | |
| | A. | ORGANIZATION OF TESTIMONY | |
| | В. | SUMMARY OF PRINCIPAL FINDINGS | 4 |
| | C. | SUPPORTING EXHIBITS | 4 |
| II. | NOR | THERN'S RATE PLAN | 5 |
| | A. | INTRODUCTION | 5 |
| | В. | TARGETED INFRASTRUCTURE REPLACEMENT ADJUSTMENT MECHANISM | |
| | | 1. INTRODUCTION | 6 |
| | | 2. GAS DISTRIBUTION COMPANY IMPLEMENTATION OF NOT TRADITIONAL CAPITAL RECOVERY RATEMAKING APPROACHES | |
| | | 3. OVERVIEW OF NORTHERN'S PROPOSED TARGETED INFRASTRUCTURE REPLACEMENT ADJUSTMENT MECHA | |
| | | 4. DESCRIPTION OF THE PROPOSED TIRA MECHANISM | 15 |
| | | 5. OTHER MATTERS | 20 |
| | C. | EARNINGS SHARING MECHANISM | 20 |
| | D. | STAY-OUT PROVISION | 22 |
| | E. | OFF RAMP | 23 |
| | F. | EXOGENOUS FACTORS | 23 |
| | G. | CUSTOMER BENEFITS FROM THE COMPANY'S PROPOSED RAPLAN | |
| | H. | RATE PLAN SUMMARY | 25 |
| III. IV. | | E DESIGN CONSIDERATIONS IMARY AND CONCLUSIONS | |

1 I. INTRODUCTION

| 2 | Q. | Please state your name, business address and position. |
|----|----|---|
| 3 | A. | My name is James D. Simpson. My business address is 293 Boston Post Road |
| 4 | | West, Suite 500, Marlborough, Massachusetts 01752. I am a Senior Vice |
| 5 | | President with Concentric Energy Advisors, Inc. ("Concentric"). |
| 6 | Q. | Please describe your relevant work experience. |
| 7 | A. | I have over 30 years' experience in the energy industry in a variety of roles and |
| 8 | | responsibilities with an overall focus on economics, pricing, forecasting and |
| 9 | | regulatory matters. I was employed by Bay State Gas Company ("Bay State") |
| 10 | | from 1982 until 2000. For much of my time at Bay State, I was responsible for |
| 11 | | rates and regulatory affairs for Bay State and Northern Utilities, Inc., (hereinafter |
| 12 | | referred to as "Northern" or the "Company"). I have been with Concentric since |
| 13 | | 2005. My professional qualifications and experience are provided in Schedule |
| 14 | | JDS-8 of this testimony. |
| 15 | Q. | On whose behalf are you testifying? |
| 16 | A. | I am testifying on behalf of Northern. |
| 17 | Q. | What is the purpose of your testimony? |
| 18 | A. | I will describe and explain Northern's proposed alternative rate plan ("Rate |
| 19 | | Plan"). The Company's Rate Plan has been designed to allow for timely recovery |
| 20 | | of the costs associated with Northern's non-revenue producing infrastructure |
| 21 | | replacements and safety and reliability improvements to the Company's natural |
| 22 | | gas distribution system, as described in the Testimony of Thomas P. Meissner, Jr., |

| 1 | while limiting the Company's base rate increases for at least a four year period to |
|---|--|
| 2 | annual rate adjustments of an estimated \$0.9 million to \$1.0 million per year ¹ , |
| 3 | Schedule JDS-3. In addition to meaningful customer and public safety and |
| 4 | reliability benefits that result from the Rate Plan, the annual rate adjustments will |
| 5 | provide Northern with a reasonable opportunity to earn a fair return without filing |
| 6 | frequent – perhaps annual – general rate cases. |
| 7 | In this testimony, I will describe and explain the components of the Company's |
| 8 | proposed Rate Plan, which include: |
| 9 10 11 12 13 14 15 16 | • A Targeted Infrastructure Replacement Adjustment ("TIRA") Mechanism, which is a base rate adjustment mechanism that will recover the costs of certain non-revenue producing capital expenditures to replace and improve the Company's distribution system, including the replacement of outdated and aging gas mains, services and other targeted components of the distribution system' between rate cases, subject to a Customer Protection provision that will limit the annual TIRA-related rate increases to 2 percent of total annual revenues; ² |
| 17 18 | • A Stay-Out Provision, which is a commitment by the Company to file its next general base rate case no earlier than April 1, 2017; |
| 19 20 21 | • An Earnings Sharing Mechanism ("ESM"), which is a mechanism that will return to customers a share of Company earnings in any year that the Company's Return on Equity ("ROE") exceeds a predetermined upper ESM |

¹ In contrast to these projected annual non-revenue producing investment increases of \$0.9 million to \$1.0 million, the Company's last rate case increased rates by \$3.7 million effective May 1, 2012 (DG 11-069, April 24, 2012 at 8). In addition, the requested increase in this proceeding is \$5.2 million.

² The Company's non-revenue producing capital expenditures to replace and improve the Company's distribution system are explained in the Testimony of Thomas P. Meissner.

- limit and recover from customers a share of Company earnings in any year
 that ROE falls below a predetermined lower ESM limit;
- An Off Ramp Provision, which allows Northern to file a general rate case
 before the end of the Stay-Out term if the Company's ROE is below a
 predetermined Stay-Out threshold³; and
- An Exogenous Factors Mechanism, which is a provision to adjust rates for
 events during the Rate Plan period that are beyond the Company's control and
 that would have a material effect on Northern's costs.
- 9 As I will also explain, the proposed Rate Plan will require Northern to operate
- efficiently and to carefully control costs in order to have a reasonable opportunity
 to earn a fair return.
- 12 Lastly, I will explain the reasons and need for the Company's base rates to be
- 13 more in line with a cost-based rate design that increases fixed charges to recover
- 14 the predominantly fixed costs associated with gas distribution service.
- 15

A. ORGANIZATION OF TESTIMONY

16 Q. How is your testimony organized?

- 17 A. Section I of my testimony is an introductory section. In Section II of my
- 18 testimony, I provide an overall explanation for the Company's proposed Rate
- 19 Plan; I will also provide detailed explanations for each of the components of the
- 20 Rate Plan: (a) the TIRA Mechanism; (b) the Stay-Out Provision; (c) the ESM; (d)
- 21 the Off Ramp Provision; and (e) the Exogenous Factor Mechanism. In Section III

³

The Company's proposed Stay Out threshold is 250 basis points less than the allowed ROE in this proceeding.

- of my testimony, I provide an explanation of the Company's proposed move to
 increase fixed charges to reflect a cost based rate design.
- 3

B. SUMMARY OF PRINCIPAL FINDINGS

4 Q. Please summarize your testimony.

- 5 A. The Company's Rate Plan is a comprehensive integrated ratemaking approach 6 that will (1) allow the Company to recover the costs of certain non-revenue 7 producing distribution asset replacements; (2) provide the Company with the 8 financial resources to spend on these non-revenue producing projects, while 9 allowing Northern a reasonable opportunity to earn a fair rate of return; (3) ensure 10 that the earliest that Northern may file its next general rate case is April 2017; (4) 11 require the Company to continue its aggressive cost management initiatives and 12 carefully manage its capital spending programs during the term of the Rate Plan; 13 (5) provide for a sharing with customers of any Company earnings that are 14 outside specified limits; and, (6) reflect the benefits of a cost base rate design that 15 will increase fixed charges to recover the predominantly fixed costs of natural gas 16 distribution service.
- 17

C. SUPPORTING EXHIBITS

18 Q. Please provide a list and description of the exhibits that you have prepared in support of your testimony.

A. The exhibits that I have prepared in support of Northern's proposed Rate Plan areas follows:

| Schedule JDS-1 | Actual and Planned Non-Revenue Producing and TIRA Capital Spending |
|----------------|---|
| Schedule JDS-2 | Planned TIRA Spending and Revenue Requirement |
| Schedule JDS-3 | TIRA Revenue Requirements |
| Schedule JDS-4 | Illustrative Example TIRA Filing Schedules |
| Schedule JDS-5 | Example TIRA rate calculations. |
| Schedule JDS-6 | TIRA Timeline |
| Schedule JDS-7 | Earnings Sharing Mechanism: ROE calculation |
| Schedule JDS-8 | Résumé of James D. Simpson |

1 II. NORTHERN'S RATE PLAN

2 A. INTRODUCTION

3 Q. Please describe how Section II, Northern's Rate Plan, is organized.

| 4 | А. | In Section II.B of my testimony, I will: (a) demonstrate that non-traditional capital |
|----|----|---|
| 5 | | recovery ratemaking approaches, such as the Company's proposed TIRA, are |
| 6 | | being used by a growing number of gas distribution companies; (b) explain why |
| 7 | | gas distribution companies have implemented capital recovery rate adjustment |
| 8 | | mechanisms to provide for more timely recovery of the costs of additions to |
| 9 | | infrastructure; (c) explain specifically why Northern is proposing to implement |
| 10 | | the TIRA Mechanism; and (d) explain the TIRA calculations, timeline, and |
| 11 | | supporting documentation that the Company will submit with each annual TIRA |
| 12 | | filing. |
| 13 | | In Sections II.C though II.F I will describe and explain the remaining features of |
| 14 | | the Company's proposed Rate Plan: (a) an Earnings Sharing Mechanism |
| 15 | | ("ESM"), in Section II.C; (b) a commitment to file the next rate case no earlier |
| 16 | | than April 2017 ("Stay Out"), in Section II.D; (c) a provision ("Off Ramp") that |
| 17 | | will allow the Company to file a general rate case prior to the end of the Rate Plan |

| 1 | | term only if the Company's earnings fall below a lower limit, in Section II.E and |
|----------------|----|---|
| 2 | | (d) a provision that, in addition to the TIRA-related rate adjustments, the |
| 3 | | Company will adjust rates to account for a limited list of events that have material |
| 4 | | cost impacts ("Exogenous Factors") in Section II.F. |
| 5 | | In Section III, I will describe the benefits of the Company's proposed rate design. |
| 6 7 | | B. TARGETED INFRASTRUCTURE REPLACEMENT ADJUSTMENT MECHANISM |
| 8 | | 1. <u>Introduction</u> |
| 9 10 11 | Q. | Have other gas distribution companies implemented rate adjustment mechanisms, similar to the Company's proposed TIRA, to recover the costs of capital spending programs between rate cases? |
| 12 | A. | Yes, a growing number of gas distribution companies have implemented rate |
| 13 | | adjustment mechanisms or post-test year rate plans to recover the costs of |
| 14 | | additions to plant through regular - e.g. annual - adjustments to rates in |
| 15 | | proceedings that are administratively streamlined, compared to traditional rate |
| 16 | | case proceedings. These capital recovery adjustment mechanisms are |
| 17 | | modifications to traditional ratemaking that are being implemented in a growing |
| 18 | | number of states to address the challenges of financing significant investments in |
| 19 | | infrastructure that many distribution companies are dealing with. |
| 20 21 22 | Q. | What evidence have you found that the number of gas distribution companies that have implemented capital recovery adjustment mechanisms is growing? |
| 23 | A. | As an indication of the growing use of capital recovery adjustment mechanisms to |
| 24 | | recover spending on gas utility infrastructure, in 2007 the American Gas |

| 1 | | Association ("AGA") reported that 15 natural gas utilities in 11 states were using |
|--------|----|--|
| 2 | | some form of rate adjustment mechanism to recover the costs of infrastructure |
| 3 | | replacement projects between rate cases; by 2012, the use of these mechanisms |
| 4 | | had increased to 48 utilities in 24 states. By December 2012, 65 gas utilities in 29 |
| 5 | | states had implemented a non-traditional ratemaking approach to recover the costs |
| 6 | | of infrastructure replacements or other categories of plant additions between rate |
| 7 | | cases. ^{4,5} |
| 8 9 | Q. | Can you please explain why a growing number of gas distribution companies are implementing capital recovery adjustment mechanisms? |
| 10 | A. | In general terms, many gas distribution companies are implementing capital |
| 11 | | recovery adjustment mechanisms because traditional ratemaking does not provide |
| 12 | | them with a reasonable opportunity to earn a fair return under their current |
| 13 | | business and operating conditions, which include, (a) costly, accelerated |
| 14 | | infrastructure replacement programs that address safety or reliability issues and |
| 15 | | provide limited revenue growth, and (b) limited revenue growth caused by energy |
| 16 | | conservation and local, regional and national economic conditions. |
| 17 | Q. | Does Northern have "limited revenue growth"? |
| 18 | A. | Similar to many gas companies implementing capital recovery adjustment |
| 19 | | mechanisms, Northern's infrastructure replacement programs provide limited |
| 20 | | sources of new revenue, i.e. these programs represent non-growth capital |
| 21 | | expenditures. However, as explained in the Testimony of Mark H. Collin and |

⁴ American Gas Association Infrastructure Cost Recovery Update, June 2012 supplemented by Concentric research.

⁵ Concentric's research and analysis on the matter is summarized in Section II.B.2.

| 1 | | Thomas P. Meissner, as a result of the relatively low saturation rate of natural gas |
|--------------------------|----|--|
| | | · |
| 2 | | in New Hampshire and the higher cost of competing fuels, the Company has |
| 3 | | added over 1,600 customers, which is a growth rate of almost 6 percent, in the |
| 4 | | past four years. Some other gas distribution companies in the northeast have |
| 5 | | experienced high customer growth rates, similar to Northern in New Hampshire, |
| 6 | | because of low saturation of gas use, abundant supply of natural gas, and the long |
| 7 | | term significant price advantage that natural gas has over competing fuels. |
| 8 9 10 11 12 | Q. | Do gas distribution companies, such as Northern in New Hampshire, that are experiencing relatively high customer growth but are also committed to costly, accelerated infrastructure replacement programs that provide limited sources of new revenue, need to implement capital recovery adjustment mechanisms? |
| 13 | A. | Yes, gas distribution companies with high customer growth rates and |
| 14 | | infrastructure replacement programs also must implement capital recovery |
| 15 | | adjustment mechanisms to have a reasonable opportunity to earn a fair return. As |
| 16 | | explained in Mr. Collin's testimony, during the initial period of customer |
| 17 | | additions, the front-loaded revenue requirement associated with the investment to |
| 18 | | serve the new customers will exceed the incremental new customer revenues. ⁶ |
| 19 | | Therefore, because Northern's growth in revenues is coming from new added |
| 20 | | customers, which involves substantial investment in new gas mains and services, |
| 21 | | Northern's need to implement a capital recovery adjustment mechanism in order |
| 22 | | to have a reasonable opportunity to earn a fair return is as great as the gas |

⁶ In the long run, customer growth is beneficial to existing customers because the Company's fixed costs will be recovered from a larger customer base; there is increasing returns to scale in gas utility cost structures.

- 1 distribution companies with large infrastructure replacement programs and low
- 2 customer growth opportunities.

Q. You have explained that capital recovery adjustment mechanisms are modifications to traditional ratemaking. Please describe "traditional ratemaking."

- 6 A. Traditional ratemaking is based on an analysis of a utility's projected or historical
- 7 annual cost of doing business; this analysis determines the level of revenues
- 8 ("Revenue Requirement") that would allow the utility a reasonable opportunity to
- 9 earn a fair rate of return.⁷ The revenue requirement consists of (1) expenses, (2)
- 10 return <u>of</u> investment in plant (depreciation), (3) return <u>on</u> investment in plant, and
- 11 (4) taxes. The return on investment component of the revenue requirement
- 12 accounts for the cost of debt that the utility has issued and the cost of equity,
- 13 which is determined by analysis to be the return that will allow the utility to
- 14 maintain credit, attract investment and provide returns that are comparable to like-
- 15 risk investments.

Q. Why doesn't traditional ratemaking provide a reasonable opportunity to earn a fair return under current business and operating conditions to many gas distribution companies?

- 19 A. Traditional ratemaking is designed to allow regulated utilities to earn a fair rate of
- 20 return if the conditions that affect utility costs and revenues during the period that
- 21 the rates will be charged are generally similar to the conditions that formed the
- 22 basis for the approved rates. Traditional ratemaking is not likely to produce
- reasonable results when the conditions that affect utility costs and revenues in the

⁷ Typically, when the rate making process is based on historical data, some adjustments are made to the data to ensure that the rate case cost of service reflects the costs that are likely to be experienced when the new approved rates will take effect.

| 1 | | years that the rate case rates will be charged are very different from the conditions |
|-------------|----|---|
| 2 | | that formed the basis for the approved rates. |
| 3 | | Thus, because gas utilities are facing business and operating conditions – |
| 4 | | specifically limited revenue growth and / or costly infrastructure replacement |
| 5 | | programs – that are different from the conditions that formed the basis for the |
| 6 | | approved rates, traditional ratemaking is not producing reasonable results. |
| 7 8 9 | Q. | In summary, why have non-traditional capital recovery ratemaking approaches been implemented by a growing number of gas distribution companies in recent years? |
| 10 | A. | In comparison to traditional cost of service / rate of return ratemaking, gas |
| 11 | | distribution companies, especially companies with large infrastructure |
| 12 | | replacement programs, have been implementing non-traditional capital recovery |
| 13 | | ratemaking approaches because these approaches: (1) eliminate the need for |
| 14 | | frequent and contentious regulatory proceedings; (2) result in more stable prices |
| 15 | | to customers over the long run; (3) produce more accurate and timely price |
| 16 | | signals, and (4) improve a distribution company's ability to finance infrastructure |
| 17 | | replacement projects and result in more stable utility earnings. |
| 18 | | 2. <u>Gas Distribution Company Implementation of Non-traditional</u> |
| 19 | | Capital Recovery Ratemaking Approaches |
| 20 21 | Q. | Please provide more detail on the number of gas distribution companies that have implemented non-traditional capital recovery ratemaking approaches. |
| 22 | A. | A summary of non-traditional capital recovery ratemaking approaches that have |
| 23 | | been approved by state commissions and implemented by the end of 2012 is |
| 24 | | provided in Table 1, below. Table 1 indicates that there are three general |

| 1 | categories of non-traditional capital recovery ratemaking approaches, which are |
|---|---|
| 2 | differentiated by the characteristics of the gas distribution company's capital |
| 3 | projects that are covered: (a) special purpose projects, such as safety-related |
| 4 | replacement projects; (b) large projects, such as major reinforcement ⁸ or |
| 5 | expansion projects, and (c) all capital spending. |

6 Table 1 Gas Distribution Utility Capital Cost Recovery Approaches, 2013

| | Types of Eligible | | - | entation rate mber of: |
|---|---|---|---------------------|---------------------------|
| Category | Assets | Examples of Eligible Assets | States ⁹ | Companies ¹⁰ |
| Special Purpose Projects (e.g. TIRA) | Typically non- revenue generating Targeted Out of the ordinary | Cast iron/ bare steel replacement programs Pipeline system integrity Relocating inside gas meters City and state construction projects | 20 | 41 |
| Large Projects | Very large Defined, specific projects May include revenue generating projects | Specific system expansion / system growth areas Reinforcement projects Automated meter reading devices | 3 | 6 |
| Comprehensive | • All capital spending | N/A | 10 | 22 |
| Total | | | 28 | 64 |

7

8

Table 1 demonstrates that special purpose project capital recovery adjustment

9

mechanisms are the most common non-traditional capital recovery ratemaking

⁸ Distribution reinforcement projects increase the capacity of the distribution system to meet existing and forecast peak (design day) loads.

⁹ The sum of the states that have implemented capital recovery rate adjustment mechanisms, by category, is greater than the 29 total states that have implemented non-traditional capital recovery ratemaking approaches because some states are represented in more than one category. Also, although Iowa and Nebraska gas distribution companies are authorized to implement capital recovery rate adjustment mechanisms by legislation or generic regulatory proceeding, no companies in these states have implemented a capital recovery rate adjustment mechanism at this time.

¹⁰ The sum of the companies that have implemented capital recovery rate adjustment mechanisms, by category, is greater than the 65 total companies that have implemented capital recovery rate adjustment mechanisms because some companies are represented in more than one category.

| 1 | | approach; the most common application of special purpose capital recovery |
|----------|----|--|
| 2 | | adjustment mechanisms is to allow for accelerated replacement of leak-prone |
| 3 | | distribution assets; these accelerated replacement programs are being driven by |
| 4 | | public safety considerations. ¹¹ |
| 5 | | Large project capital recovery adjustment mechanisms are generally used to |
| 6 | | recover cost associated with, for example, major main extension projects, system |
| 7 | | improvement / reinforcement projects, and integrity management initiatives. |
| 8 | | Comprehensive alternative ratemaking approaches to recover the costs of capital |
| 9 | | spending generally include (a) multi-year rate plans that account for the |
| 10 | | distribution company's capital spending plans together with projected expenses ¹² , |
| 11 | | and (b) annual rate adjustments based on audited annual financial results ¹³ . |
| 12 13 | Q. | Please provide a list of the states that have implemented one of the three categories of non-traditional capital recovery ratemaking approaches. |
| 14 | А | Table 2 lists the states that have implemented non-traditional capital recovery |
| 15 | | ratemaking approaches, as of December 2012. |
| 16 | | |

¹¹ In the 15 states with the highest proportion of leak-prone mains, 10 to 46 percent of the total distribution mains in these states are leak-prone. In the 16 states with the highest proportion of leak-prone services, 10 to 29 percent of total services in these states are leak-prone. "Gas Distribution Infrastructure: Pipeline Replacement and Upgrades, Cost Recovery Issues and Approaches." July 2012 American Gas Foundation

¹² Rate plans have been approved for gas distribution companies in California and New York.

¹³ These annual rate adjustment proceedings, commonly referred to as "revenue stabilization" proceedings, have been approved for gas distribution companies in Alabama, Georgia, Louisiana, Oklahoma, South Carolina, Texas, and Vermont.

| | | | | | | P | | | | | -~,- | | |
|-------------|--|------------------|---------------------------------|--------|---------------------------|------------------|----------------|---------------|--------------------|------------------|----------------|---------------|-----|
| | | Special Projects | Large projects Comprehensive | | | Special Projects | Large projects | Comprehensive | | Special Projects | Large projects | Comprehensive | |
| | Alabama | 1 | | 2 | Louisiana | 0 | 0 | 3 | Ohio | 4 | 0 | 0 | |
| | Arkansas Arizona | 1 | | 0 0 | Massachusetts Maine | 3 0 | 0 0 | 0 0 | Oklahoma Oregon | 0 | 0 1 | 2 0 | |
| | California | 0 | | 2 | Michigan | 1 | 0 | 0 | Pennsylvania | 1 | 0 | 0 | |
| | Colorado | 1 | 0 | 0 | Missouri | 4 | 0 | 0 | Rhode Island | 1 | 0 | 0 | |
| | DC | 0 | | 0 | Mississippi | 0 | 0 | 2 | South Carolina | 0 | 0 | 1 | |
| | Georgia Iowa | 20 | | 1 0 | Nebraska New Hampshire | 0 | 0 0 | 0 0 | Texas Utah | 2 1 | 0 0 | 2 0 | |
| | Indiana | 2 | | 0 | New Jersey | 1 0 | 4 | 0 | Virginia | 2 | 0 | 0 | |
| | Kansas | 3 | | 0 | Nevada | 0 | 1 | 0 | Vermont | 0 | 0 | 1 | |
| | Kentucky | 5 | 0 | 0 | New York | 4 | 0 | 6 | - | | | | |
| 2 3 4 | 3. <u>Overview of Northern's Proposed Targeted Infrastructure</u> | | | | | | | | | | | | |
| 5 | | <u>R</u> | eplac | em | ent Adjustment | Mec | hani | <u>sm</u> | | | | | |
| 6 7 | Q. Please describe the overall purpose of the Company's proposed TIRA mechanism. | | | | | | | | | | | | |
| 8 | A. The Company has designed the TIRA mechanism to recover the revenue | | | | | | | | | | | | |
| 9 | requirement associated with the following non-revenue producing replacement | | | | | | | | | | | | |
| 10 | projects, which are described and explained in the Testimony of Thomas P. | | | | | | | | | | | | |
| 11 | Me | issner | , Jr: | | | | | | | | | | |
| 12 | 1. | Repla | iceme | nt | of all bare steel | , no | on-ca | thodi | cally protected | ("u | npro | otecte | d") |
| 13 | | coated | d steel | , a | nd cast/wrought in | on n | nains | s and | services. | | | | |
| 14 | 2. | Repla | iceme | nt (| of outdated or obs | solet | e reg | ulato | or stations posin | gaı | risk | to saf | ety |
| 15 | | - | | | ncluding farm tap | | - | | * | - | | | • |
| | | | | | | - | | | | • | 1 | | |
| 16 | 3. | керіа | iceme | IT (| of facilities due to | state | e anc | ı mur | ncipai nighway | proj | ects. | | |

1 Table 2 Gas Distribution Utility Capital Cost Recovery Approaches, 2012

Docket No. DG 13-086 Testimony of James D. Simpson Exhibit JDS-1 Page 14 of 29

1Q.Please describe the Company's actual and projected TIRA-related Capital2spending.

A. I have prepared Schedule JDS-1 to show the Company's actual and projected
levels of spending on the non-revenue producing replacement projects that are
listed above; the actual and projected spending levels were provided to me by the
Company. Schedule JDS-1 demonstrates that for the period 2012 to 2016, the
Company's average annual actual and planned spending on non-revenue
producing replacement projects is \$6.6 million, which is an increase of 25.5
percent over 2011 non-revenue producing replacement spending, \$5.3 million.

10 Q. Why is the Company proposing this TIRA?

11 A. The proposed TIRA is necessary to provide sufficient revenues on a timely basis 12 to finance the Company's non-revenue producing replacement programs that I 13 have listed above and to avoid earnings erosion that would prevent the Company 14 from having a reasonable opportunity to earn a fair return and that, conversely, 15 drives the need for frequent base-rate relief. Earnings erosion related to the 16 Company's non-revenue producing programs is a critical consideration because 17 the cost of these programs is a significant portion of Northern's overall planned 18 capital spending. In effect, the TIRA is designed to limit - to slightly more than 19 one year - the regulatory lag that the Company would otherwise experience, 20 which is especially important for a utility, such as Northern, that has undertaken a 21 disproportionately large, and sustained capital expenditure.¹⁴

¹⁴ For the four years, 2013 – 2016, Northern's annul TIRA-eligible spending is projected to average \$6.7 million; projected spending on cast iron and bare steel replacements is 69.3 percent of total projected TIRA-eligible spending.

1 **Q**. Please describe the earnings erosion impact of the Company's TIRA –related 2 programs on the Company's earnings. 3 To demonstrate the earnings erosion impact of the planned replacement programs, A. 4 I have prepared Schedule JDS-2, which shows the Company's planned TIRA-5 related capital spending and the associated TIRA-related revenue requirement.¹⁵ 6 The TIRA-related revenue requirement grows from \$0.9 million in 2013 to \$3.9 7 million in 2016. Through 2016, the sum of the annual cumulative TIRA-related 8 revenue requirements is \$9.8 million. Clearly, without the proposed TIRA 9 mechanism, the Company could not commit to a Stay-Out provision through 10 April 2017. The effect of the capital spending plans on the Company's ability to 11 earn its allowed return is also discussed in the Testimony of Mark H. Collin. 12 4. Description of the Proposed TIRA Mechanism 13 Q. What specific costs for annual utility plant additions relating to non-revenue producing projects will be eligible for inclusion in the calculation of the 14 **TIRA** mechanism? 15 16 A. The Company will include the fully absorbed accounting costs, determined in 17 conformity with U.S. GAAP and FERC accounting guidelines, for annual utility 18 plant additions relating to non-revenue producing projects for: (a) replacement of 19 Cast Iron and Bare Steel Mains and Services; (b) replacement of Farm Tap 20 regulators; and (c) relocation of distribution facilities associated with state and 21 municipal highway projects. Fully absorbed accounting cost of utility plant 22 additions includes materials, direct labor and fringe, and indirect costs. Indirect

¹⁵ The calculation of the TIRA-related revenue requirements is described and explained in Section II.B.4 of my testimony.

| 1 | | costs include indirect supervisory and administrative costs, and Engineering and |
|--|----|---|
| 2 | | Operations management costs. The Company will account for the utility plant |
| 3 | | additions included in the TIRA consistently with its accounting for all normal |
| 4 | | utility plant additions each year, with no special assignment of costs that would |
| 5 | | deviate from standard accounting procedures. The Company maintains its |
| 6 | | accounting practices in conformity with its Cost Allocation Manual ("CAM") |
| 7 | | which is updated annually. As a result of the procedures documented in the |
| 8 | | CAM, each and all utility plant additions are assigned a pro-rata portion of |
| 9 | | indirect costs incurred within the annual period. |
| 10 11 | Q. | Is the Company proposing a Customer Protection provision to limit the bill impacts associated with the annual TIRA rate adjustments? |
| 11 | | impacts associated with the annual TIKA rate aujustments: |
| 12 | A. | Yes, the Company is proposing to limit the annual increase in revenues associated |
| | A. | - |
| 12 | A. | Yes, the Company is proposing to limit the annual increase in revenues associated |
| 12 13 | А. | Yes, the Company is proposing to limit the annual increase in revenues associated with the TIRA mechanism to 2.0 percent of total revenues for the most recent |
| 12 13 14 | А. | Yes, the Company is proposing to limit the annual increase in revenues associated with the TIRA mechanism to 2.0 percent of total revenues for the most recent calendar year. For this calculation, total revenues will be calculated as the sum |
| 12 13 14 15 | А. | Yes, the Company is proposing to limit the annual increase in revenues associated with the TIRA mechanism to 2.0 percent of total revenues for the most recent calendar year. For this calculation, total revenues will be calculated as the sum of: (a) weather normalized delivery revenues; (b) weather normalized Cost of Gas |
| 12 13 14 15 16 | Α. | Yes, the Company is proposing to limit the annual increase in revenues associated with the TIRA mechanism to 2.0 percent of total revenues for the most recent calendar year. For this calculation, total revenues will be calculated as the sum of: (a) weather normalized delivery revenues; (b) weather normalized Cost of Gas ("COG") revenues from sales customers; and (c) weather normalized imputed |
| 12 13 14 15 16 17 | Α. | Yes, the Company is proposing to limit the annual increase in revenues associated with the TIRA mechanism to 2.0 percent of total revenues for the most recent calendar year. For this calculation, total revenues will be calculated as the sum of: (a) weather normalized delivery revenues; (b) weather normalized Cost of Gas ("COG") revenues from sales customers; and (c) weather normalized imputed COG revenues from transportation customers. If the TIRA revenue requirement |
| 12 13 14 15 16 17 18 | Α. | Yes, the Company is proposing to limit the annual increase in revenues associated with the TIRA mechanism to 2.0 percent of total revenues for the most recent calendar year. For this calculation, total revenues will be calculated as the sum of: (a) weather normalized delivery revenues; (b) weather normalized Cost of Gas ("COG") revenues from sales customers; and (c) weather normalized imputed COG revenues from transportation customers. If the TIRA revenue requirement increase in any year exceeds the 2.0 percent Customer Protection cap, the |

Docket No. DG 13-086 Testimony of James D. Simpson Exhibit JDS-1 Page 17 of 29

1 Q. Please explain how the TIRA revenue requirement will be calculated.

A. I have prepared Schedule JDS-3 to demonstrate the projected TIRA revenue
requirements during the term of the Rate Plan. I have also prepared Schedule
JDS-4 to demonstrate the format and content of the TIRA-related schedules that
the Company will include with each annual Rate Plan filing, on or before each
February 28th during the term of the Rate Plan.

7 Annually, the Company will calculate the incremental and cumulative TIRA 8 revenue requirement associated with TIRA-eligible rate base. The cumulative 9 TIRA revenue requirement will be calculated to include: (a) return and related 10 income taxes on year-end cumulative rate base associated with TIRA-eligible 11 programs; (b) annual depreciation on the cumulative TIRA plant additions; and 12 (c) associated property taxes on cumulative net plant in service based on the 13 composite property tax rate paid by the Company in all towns served in New 14 Hampshire for the most recently completed Calendar Year. Return and related 15 income taxes on rate base will be calculated at the pre-tax return allowed in this 16 proceeding. Cumulative incremental rate base will be calculated with cumulative 17 actual plant additions on TIRA-eligible facilities, including actual removal costs 18 reflected in accumulated depreciation. Accumulated depreciation and deferred 19 tax in rate base will reflect the Company's actual accounting records including 20 actual costs and timing of projects. For illustrative purposes only, in Schedule 21 JDS-4, I have assumed mid-year timing and a 10 percent cost of removal rate (90 22 percent of capital forecast to plant additions and 10 percent of TIRA capital 23 forecast to cost of removal in accumulated depreciation).

1Q.Please explain how the Company's rates will be adjusted to reflect the annual2TIRA revenue requirement.

- 3 A. To determine the Company's base distribution customer and volumetric (i.e. "per
- 4 therm") rates to be effective May 1 of each year of the Rate Plan, the base
- 5 distribution rates that are in effect just prior to May 1 of that year will be
- 6 multiplied by a TIRA Rate Adjustment factor. The TIRA Rate Adjustment factor
- 7 will be calculated by dividing (1) the sum of normalized base distribution
- 8 revenues plus the annual incremental TIRA revenue requirement (adjusted, if
- 9 necessary, to reflect the Customer Protection provisions) by (2) normalized base
- 10 distribution revenues. Normalized base distribution revenues will be calculated
- 11 by multiplying the base distribution rates that are in effect just prior to May 1 of
- 12 that year by the billing determinants that are approved in this proceeding.
- 13 I have prepared Schedule JDS-5 to illustrate how the TIRA Rate Adjustment
- 14 factor will be calculated and how the Company's base rates to be effective May 1
- 15 of each year of the Rate Plan will be calculated.

16Q.Please explain why you are proposing to apply the TIRA Rate Adjustment17factor to adjust Northern's base distribution rates.

- 18 A. As Mr. Normand explains in his testimony, the Company's proposed rate design,
- 19 which recovers a greater portion of the costs of providing distribution service
- 20 through the fixed customer charges, represents a movement towards cost-based
- 21 distribution rates. The TIRA Rate Adjustment factor will simply maintain the
- 22 relationship between customer and volumetric rates that will be determined in this
- rate case.

1 2

Q. Please explain the timing of calculations, filings and rate adjustments related to the proposed TIRA Mechanism.

| 3 | A. | I have prepared Schedule JDS-6 to illustrate the timing of TIRA calculations, |
|----|----|--|
| 4 | | filings and rate adjustments for the first two years of the Rate Plan. Referring to |
| 5 | | Schedule JDS-6, for the term of the Rate Plan, on or before each February 28 th the |
| 6 | | Company will submit a Rate Plan filing, which will include schedules in support |
| 7 | | of the proposed rates that reflect the adjustments for the prior calendar year's |
| 8 | | TIRA-eligible costs. ¹⁶ The annual Rate Plan filing will also include supporting |
| 9 | | schedules associated with the other elements of the Rate Plan, as described in |
| 10 | | Sections II.C through II.F. After regulatory review, new Rate Plan base rates will |
| 11 | | go into effect each May 1.17 |
| 12 | | As explained in detail in the testimony of Thomas P. Meissner, on or before the |
| 13 | | last day of February of each year, the Company will provide an annual report to |
| 14 | | the Commission showing actual TIRA activities and costs for the previous |
| 15 | | calendar year and Northern's planned activities and costs for the current calendar |
| 16 | | year. |

Q. Please describe the TIRA-related analysis and supporting documentation that the Company will include in the annual Rate Plan filings.

A. The annual Rate Plan filing will include the following TIRA-related data and
analysis: (a) a summary of the costs of TIRA-eligible plant additions for the prior

21 year; (b) calculations in support of the TIRA revenue requirement, in a format

¹⁶ The Company will make annual TIRA filings to recover the costs of TIRA-related plant additions that are recorded for the years 2013 through 2016.

¹⁷ Thus, new base rates will go into effect each May 1 for the years 2014/15 through 2017/18.

- similar to Schedule JDS-4; and (c) calculations in support of the adjustments to
 base rates, in a format similar to Schedule JDS-5.
- 3

5. Other Matters

4 Q. Have you prepared an O&M Offset to be included in the calculation of the 5 TIRA revenue increase?

- 6 A. No. The Company's Rate Plan includes Northern's commitment to file a general
- 7 rate case no earlier than April, 2017. During the term of the Rate Plan, the
- 8 Company's rate increases will be limited to TIRA-related rate adjustments.
- 9 Therefore, during the term of the Rate Plan, specifically because of the Stay-Out
- 10 provision, the Company will be required to carefully manage all other cost
- 11 drivers, including O&M expenses, non-TIRA related capital spending and growth
- 12 capital spending in order to earn a reasonable return. Northern's Rate Plan
- 13 provides significant benefits to the Company's customers. Accordingly, including
- 14 an O&M offset would unfairly shift additional risk to the Company.
- 15

C. EARNINGS SHARING MECHANISM

16 Q. Please explain the purpose of an Earnings Sharing Mechanism.

- 17 A. An ESM is a common element of rate plans, such as Performance Based
- 18 Ratemaking plans, and rate freezes, which provides incentives to the utility to
- 19 operate efficiently, but with limits to ensure a fair balancing of risks and
- 20 opportunities to customers and to the utility.

| 1 | Q. | Please describe the Company's proposed ESM. |
|----------|----|---|
| 2 | A. | The proposed ESM includes a deadband of plus or minus 100 basis points around |
| 3 | | the allowed ROE, and an equal (50 percent each) sharing of (a) the positive |
| 4 | | difference between actual earnings, adjusted to reflect normal weather, and the |
| 5 | | allowed earnings plus 100 basis points, or (b) the negative difference between |
| 6 | | weather normalized actual earnings and the allowed earnings minus 100 basis |
| 7 | | points. |
| 8 9 | Q. | For purposes of the ESM calculation, please describe how the calculation of the Company's ROE, adjusted to reflect normal weather, will be performed. |
| 10 | A. | The calculation of actual weather normalized ROE that will be included in the |
| 11 | | annual Rate Plan filings to be submitted every February 28 th will be based on the |
| 12 | | methodology that is used in Company's calculation of the Return on Common |
| 13 | | Equity as submitted in the Company's 4th Fiscal Quarter Form F-1 – Rate of |
| 14 | | Return filed with the NHPUC. The Form F-1 calculation will be modified to |
| 15 | | exclude any earnings sharing that was reflected in the revenues for that year. |
| 16 | | I have prepared Schedule JDS-7 to illustrate: (a) how actual weather normalized |
| 17 | | ROE will be calculated for each calendar year of the Rate Plan; and (b) the |
| 18 | | calculation of the customer and Company share of earnings if the actual ROE is |
| 19 | | outside the deadband. |
| 20 21 | Q. | How will rates be adjusted to credit or charge customers for actual earnings that are outside the deadband? |
| 22 | A. | The rates to all customers will be adjusted by a volumetric ("per therm") rate, |
| 23 | | which will be calculated by dividing the customer share of earnings outside the |

| 6 | D. STAY-OUT PROVISION |
|---|---|
| 5 | Income Assistance and Regulatory Assessment Costs deferred account. ^{19,20} |
| 4 | end of the twelve month period will be transferred to Northern's Residential Low |
| 3 | accounts to record the monthly balances. Any remaining deferred balance at the |
| 2 | that the charge or credit will be in effect. ¹⁸ The Company will maintain deferred |
| 1 | deadband by forecasted volumes for the twelve month May through April period |

6

STAY-OUT PROVISION

7 Q. Please describe the Company's proposed Stay-Out provision.

8 Α. As I have stated elsewhere in my testimony, the Company will not file a general 9 rate case during the term of the Rate Plan, unless the provisions of the Off Ramp, 10 which are described below, are triggered. This means that, except for the annual 11 TIRA rate adjustments, base distribution rates will not increase for at least four years²¹ from the effective date of the new rates in this proceeding - filed in April 12 13 2013 - to the effective date of the new rates filed in the next rate case – filed no 14 earlier than April 2017.

¹⁸ The therm forecast will be the forecast of annual firm sales and firm delivery service throughput that is used in the Company's Local Delivery Adjustment Clause filing.

¹⁹ See: Local Delivery Adjustment Clause, Section 6 Residential Low Income Assistance and Regulatory Assistance Costs Allowable for LDAC, currently effective Pages 49 through 52.

²⁰ The Company's proposal to transfer any remaining deferred balance at the end of a twelve month period to the Residential Low Income Assistance and Regulatory Assistance deferred account is intended to ensure that the earnings sharing deferred balance from any year that the earnings sharing provision was triggered is returned to (or recovered from) all firm sales and transportation tariff customers (with the exception of special contract customers who do not pay for service pursuant to a sales or delivery service rate schedule) in a timely manner.

²¹ Subject to the Exogenous Factor provisions.

1 **E. OFF RAMP**

2 Q. Please describe the Company's Off Ramp proposal.

- A. If the Company's actual ROE²² is less than the allowed ROE by more than 250
 basis points, the Stay-Out provision would no longer apply, and the Company
 would be allowed to file a general rate case prior to the end of Stay-Out period,
 April 1, 2017.
- 7

22

F. EXOGENOUS FACTORS

8 Q. Please explain the Company's proposal to account for Exogenous Factors 9 during the term of the Rate Plan.

- 10 A. Exogenous Factors are typically included in rate plans to allow for adjustments to
- 11 rates for events that: (a) are unforeseen at the start of the rate plan; (b) are largely
- 12 uncontrollable by management; (c) are not already reflected in base rates or the
- 13 TIRA adjustments; and (d) have a material effect on earnings. For the purpose of
- 14 this exogenous factor provision, "material effect on earnings" is defined as any
- 15 combination of exogenous events that have a combined positive or negative
- 16 impact on the Company's costs of at least \$100,000.
- 17 Further, Exogenous Factors will be limited to the following categories: (i)
- 18 accounting rule changes promulgated by FASB, SEC or the Commission; (ii) Tax
- 19 law changes by the federal government, state government, or any local
- 20 jurisdiction having taxing authority; (iii) Costs resulting from other mandated

The methodology used to calculate the ROE for the Off Ramp will be the same as the methodology used for the ESM.

| 1 | | state, federal, or local governmental programs; or (iv) other events of a similar |
|--------|----|--|
| 2 | | nature. |
| 3 | | The Company will include an Exogenous Factor filing on February 28 th of each |
| 4 | | year, as part of the Rate Plan filing. |
| 5 6 | | G. CUSTOMER BENEFITS FROM THE COMPANY'S PROPOSED RATE PLAN |
| 7 8 | Q. | Please describe and explain the benefits of Northern's Rate Plan to its customers. |
| 9 | A. | The following features of the Rate Plan were specifically included to benefit |
| 10 | | Northern's customers: |
| 11 | | 1. The annual rate increases provided for in Northern's Rate Plan will result in |
| 12 | | lower costs and rates to customers over the long run due to reduced |
| 13 | | administrative, regulatory and financing costs as described in the Testimony |
| 14 | | of Mark H. Collin, greater rate stability to Northern customers, compared to |
| 15 | | rate increases from general rate cases that would likely be filed as frequently |
| 16 | | as every year or so. Customers can more readily budget for smaller annual |
| 17 | | increases than for larger, less frequent increases, even if the cumulative effect |
| 18 | | of the two alternatives is similar. As a further consideration, general rate |
| 19 | | cases are not limited to the revenue requirement effect of non-revenue |
| 20 | | producing replacement programs; rate case increases would also reflect |
| 21 | | increases in the Company's expenses caused by inflation and the revenue |
| 22 | | requirement impact of all (not just non-revenue producing) plant additions. |

Docket No. DG 13-086 Testimony of James D. Simpson Exhibit JDS-1 Page 25 of 29

| 1 | 2. | Also, as explained in Section II.B.4, the TIRA Customer Protection provision |
|----|----|--|
| 2 | | ensures that the overall customer bill impact from each annual Rate Plan rate |
| 3 | | adjustment will be capped at 2.0 percent, which further serves to ensure that |
| 4 | | customer rates will be stable during the Rate Plan term. |
| 5 | 3. | Because the Rate Plan rate increases are limited to the costs associated with |
| 6 | | the Company's non-revenue producing replacement programs, as described in |
| 7 | | the Testimony of Thomas P. Meissner Jr., Northern will have strong |
| 8 | | incentives to carefully control its expenses and capital spending in order to |
| 9 | | earn a fair return. As a result, in the Company's next rate case following the |
| 10 | | end of the Rate Plan, the Company's cost of service will reflect the cost |
| 11 | | management that Northern exercised during the term of the Rate Plan, which |
| 12 | | will result in direct benefits to Northern's customers. |

13

H. RATE PLAN SUMMARY

14 Q. Has the Company prepared a Rate Plan tariff?

15 A. Yes. The Company has prepared a Rate Plan tariff, which is included in the 16 separate tab of tariff pages filed in this proceeding. The TIRA section of that 17 tariff provides details related to: (a) the calculation of the TIRA revenue 18 requirement and rate adjustments; (b) the TIRA timeline; (c) the Customer 19 Protection provision, including the Customer Protection deferred account; and (d) 20 required filing exhibits and documentation. The remaining sections of the tariff 21 provide specific details related to: (1) the ESM; (2) Stay-Out; (3) Off Ramps; (4) 22 Exogenous Factors; and (5) required filing exhibits.

1 III. <u>RATE DESIGN CONSIDERATIONS</u>

| 2 3 | Q. | Please summarize the support that Mr. Normand provides in his rate design testimony for his proposal to move towards cost-based distribution rates. |
|----------|----|---|
| 4 | А. | In his testimony, Mr. Normand explains that the Company's proposal to increase |
| 5 | | the portion of the distribution revenue requirement that is recovered through fixed |
| 6 | | monthly customer charges is consistent with the goal of establishing cost based |
| 7 | | rates because a large portion of the Company's revenue requirement does not vary |
| 8 | | in the short run. |
| 9 10 | Q. | From your own experience, can you provide any additional support for the Company's proposed rate design? |
| 11 | А. | Yes, I can. The Company's rate design proposal to increase the portion of the |
| 12 | | distribution revenue requirement that is recovered through fixed monthly |
| 13 | | customer charges: (a) aligns the interests of the Company and its customers on |
| 14 | | energy efficiency matters; (b) reduces the variability of the Company's year-to- |
| 15 | | year revenues that is caused by variability of weather and the effects of |
| 16 | | conservation; and (c) creates greater stability in customers' bills and the |
| 17 | | Company's revenues from month-to-month within a year and from year-to-year |
| 18 | | over several years. |
| 19 20 | Q. | Please explain how the Company's rate design proposal will reduce the variability of the Company's revenues due to weather and conservation. |
| 21 | A. | Northern's current rate design recovers 67 percent of total distribution revenues |
| 22 | | from volumetric charges, which exposes the Company to variability of |
| 23 | | distribution revenues from (a) variations on weather and (b) declining gas |
| 24 | | consumption that is caused by customer conservation initiatives. |

| 1 | | In response to revenue variability associated with declining gas consumption due |
|--------|----|---|
| 2 | | to conservation initiatives, many gas distribution companies have (a) increased |
| 3 | | the portion of the distribution revenue requirement that is recovered through fixed |
| 4 | | monthly customer charges and / or (b) implemented revenue decoupling |
| 5 | | mechanisms to more closely align revenues with the costs of providing |
| 6 | | distribution service. |
| 7 8 | Q. | Please explain how the Company's proposed rate design will reduce the variability of Customer's bills due to weather on Customers' bills. |
| 9 | A. | Northern's proposed rate design is fair, symmetrical, and beneficial to the |
| 10 | | Company and its customers. The proposed higher customer charges will serve to |
| 11 | | mitigate the customer bill impacts of a colder than normal winter; most of the |
| 12 | | increase in customers' bills will be caused by increased Cost of Gas factor |
| 13 | | ("COG") collections, and a disproportionately small amount of the bill increases |
| 14 | | will come from increased distribution revenues. ²³ Conversely, during warmer |
| 15 | | than normal winters, most of the decrease in customers' bills would be caused by |
| 16 | | decreased COG collections. Thus, the Company's proposed rate design would |

- 17 improve the year-to-year stability of customers' bills and the Company's
- 18 distribution revenues.

23

If all distribution revenues were recovered in fixed monthly charges, colder than normal weather would have no impact on customers' bills.

1Q.Please explain how the Company's proposed rate design will reduce the2seasonal variability of Customer's bills.

- A. The Company's proposed rate design will increase most customers' bills in the
 summer period, when customer usage is at its lowest levels, and will mitigate
- 5 customer bill increases in the winter period, when bills are at their highest levels.

6 IV. SUMMARY AND CONCLUSIONS

7 Q. Please summarize Northern's proposed Rate Plan and Rate Design.

8 A. Northern's proposed Rate Plan is a comprehensive, integrated ratemaking 9 approach that will: (1) allow the Company to make non-revenue producing 10 distribution asset replacements at an accelerated rate; (2) provide the Company 11 with more timely recovery of the costs of these non-revenue producing projects; 12 (3) ensure that Northern will not file its next rate case prior to April 2017; (4) 13 require the Company to continue its aggressive cost management initiatives and 14 carefully manage its capital spending programs during the term of the Rate Plan; 15 (5) share any Company earnings that are outside specified limits between 16 customers and the Company; and (6) reflect the benefits of a cost-based rate 17 design that will increase fixed charges to recover the predominantly fixed costs of 18 natural gas distribution service.

- 19 The overall effect of the Company's proposed Rate Plan will be to provide
- 20 Northern with the financial strength to make safety and growth-related
- 21 investments in infrastructure for the long run benefit of Northern's customers and
- for the State of New Hampshire. If the separate components of the Rate Plan are
 substantially altered in the rate case process, the Company faces the possibility of

Docket No. DG 13-086 Testimony of James D. Simpson Exhibit JDS-1 Page 29 of 29

- 1 having diminished opportunity to earn a fair return on equity and to finance the
- 2 planned non-revenue producing projects during the term of the Rate Plan.

3 Q. Does this conclude your testimony?

- 4 A. Yes, it does.
- 5