# STATE OF NEW HAMPSHIRE <br> BEFORE THE PUBLIC UTILITIES COMMISSION 

Docket No. DG 20-105
Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Distribution Service Rate Case

## REBUTTAL TESTIMONY

OF

DAVID B. SIMEK
AND
KENNETH A. SOSNICK

April 29, 2021

Liberty

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| :---: | :--- |
| DBS/KAS-1-Rebuttal | Revenue Requirement Schedules Showing Impact of Rebuttal <br> Adjustments |
| DBS/KAS-2-Rebuttal | Data Responses |
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## I. INTRODUCTION AND BACKGROUND

Q. Please state your full name, position, and business address.
A. (DS) My name is David B. Simek. My business address is 15 Buttrick Road, Londonderry, New Hampshire.
(KS) My name is Kenneth A. Sosnick. My business address is 200 State Street, 9th Floor, Boston, Massachusetts.

## Q. By whom are you employed, and in what position?

A. (DS) I am employed by Liberty Utilities Service Company, which provides services to Liberty Utilities (EnergyNorth Natural Gas) Corp. ("EnergyNorth" or the "Company"). My title is Manager, Rates and Regulatory Affairs.
(KS) I am employed by FTI Consulting ("FTI"), which is a worldwide consulting firm dedicated to helping organizations manage change, mitigate risk, and resolve disputes. Our Power \& Utilities practice brings these services to firms in regulated and competitive energy industries. The services we provide our utility clients include expert testimony, regulatory advice, support for strategic decision-making, and advice regarding investments and capital allocation. Our team is comprised of former utility executives, regulators, investors, and financial analysts that combine for hundreds of years of experience in the regulated energy space. My title is Managing Director.

## Q. Have you previously submitted testimony in this proceeding?

A. Yes. We submitted joint pre-filed testimony as part of the Company's July 31, 2020, filing for an increase in distribution rates. Our professional backgrounds and
qualifications are contained in that testimony. Terms defined in our pre-filed direct testimony have the same meaning in this rebuttal testimony.

## II. PURPOSE AND SUMMARY OF TESTIMONY

## Q. What is the purpose of your testimony?

A. Our testimony responds to the revenue requirement recommendations of Staff witness Donna H. Mullinax. Our testimony explains that the Company agrees with several of these recommendations, but that the majority of Staff's proposed adjustments are unwarranted and should be rejected by the Commission. As noted below, our testimony includes an updated revenue requirement analysis that incorporates the Company's rebuttal positions.

## Q. Are you submitting any attachments with your testimony?

A. Yes, we are submitting the following attachments:

- Attachment DBS/KAS-1-Rebuttal, updated revenue requirement schedules reflecting the Company's rebuttal positions.
- Attachment DBS/KAS-2-Rebuttal, copies of certain data responses referred to in this rebuttal testimony.
- Attachment DBS-KAS-3-Rebuttal, a breakout of regulatory assets on December 31, 2017, used in the determination of the excess accumulated deferred income taxes ("EADIT").
- Attachment DBS-KAS-4-Rebuttal, the updated functional cost of service model reflecting the Company's rebuttal revenue requirement.


## Q. Please summarize the results of your testimony.

A. The Company agrees with four changes proposed by Staff, which are described as follows in reference to the schedules where the changes appear in Attachment DBS/KAS-1-Rebuttal:

- Adjustment of Payroll Expense annualization to reflect the actual payroll percent increase for 2020 (Adjustment \#1 on page 2 of Attachment DBS-KAS-Rebuttal-1, reflected on Schedule RR-EN-3-2, lines 4 and 13).
- Adjustment to normalize CSR 2019 Ratification Bonus over the term of the contract (Adjustment \#2 on page 2 of Attachment DBS-KAS-Rebuttal-1, reflected on Schedule RR-EN-3-2, lines 22 and 23).
- Adjustment to remove the double count of New Hampshire property tax true-up (Adjustment \#3 on page 2 of Attachment DBS-KAS-Rebuttal-1, reflected on Schedule RR-EN-3-7, line 89).
- Adjustment to remove $\$ 5,313$ in additional Keene production costs (Adjustment \#4 on page 2 of Attachment DBS-KAS-Rebuttal-1, reflected on Schedule RR-EN-3-10, line 21).

Aside from these changes and those contained in the Company's March 3, 2021, Corrections and Updates ("CU") filing, the Company disagrees with the balance of the revenue requirement adjustments recommended in Staff's testimony. These additional adjustments are unwarranted and should be rejected for reasons discussed below in our rebuttal testimony.

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## Q. Did you update the revenue requirement to reflect the Company's rebuttal position?

A. Yes. The Company last updated the revenue requirement in the CU filing, which demonstrated a reduced revenue increase of $\$ 4,933,718$. The Company's rebuttal position results in an additional decrease of $\$ 358,410$ or a total revenue requirement of $\$ 4,575,308$. The Company's updated schedules are attached as DBS/KAS-1-Rebuttal.

## Q. Please summarize Staff's proposed revenue requirement adjustments.

A. Ms. Mullinax recommended fourteen ${ }^{1}$ adjustments to the Company's revenue requirement. The table below summarizes Staff's proposed adjustments: ${ }^{2}$

|  |  |  | $\begin{array}{c}\text { Operating } \\ \text { Income }\end{array}$ | $\begin{array}{c}\text { Revenue } \\ \text { Deficiency }\end{array}$ |
| :--- | :--- | :--- | :---: | :---: | :---: |
|  |  | Rate Base |  |  |$)$

[^0]
## III. RESPONSE TO STAFF REVENUE REQUIREMENT ADJUSTMENTS

## Q. Please summarize Staff's Adjustment \#1 regarding Working Capital.

A. Staff argues that the most current 13-monthly average of Materials and Supplies are not expected to continue during the rate effective period and therefore should be adjusted downward based on the average working capital balance for thirty-nine months. ${ }^{3}$

## Q. Is this adjustment appropriate?

A. No, for several reasons. First, Staff's adjustment is not a known and measurable change to the test year and is purely speculative. Additionally, Staff's position is based on a misreading of the Company's response to Staff TS 3-14, ${ }^{4}$ which it cites in support of its adjustment. In this response, the Company answered a question about the Company's expectations for continued increases in Materials and Supplies balances going forward: ". . . Pipeline replacement is leveling off and the Company expects to see some improvement in Materials and Supplies planning as a result of the move towards an integrated system under SAP." Staff misconstrues the Company's use of the term "leveling off" in this context, which was intended to convey the expectation that Materials and Supplies expense is expected to remain steady and not decline as Staff suggests. ${ }^{5}$ Lastly, Staff's adjustment inappropriately relies on annual balances as of December 31, which are not representative of actual costs. As acknowledged by Staff in

[^1]its response to LU 1-2, ${ }^{6}$ the month of December is outside the construction season and at a time when inventory balances are typically lower. In summary, Staff's adjustment is not known and measurable, is not supported by the facts, and does not appropriately reflect an average of inventory balances carried throughout the year, and therefore the proposed adjustment to Materials and Supplies should be rejected.

## Q. Please summarize Staff's Adjustment \#2 regarding Cash Working Capital.

A. Staff proposes to update the amount of Cash Working Capital included in the Company's rate base for changes related to Staff's various revenue and expense adjustments. ${ }^{7}$
Q. Do you agree with this adjustment?
A. Yes, in concept. Staff took no issue with the Company's proposed Cash Working Capital rate. The Company supports updating the Cash Working Capital calculation based on the outcome of revenue and expense adjustments in this proceeding.
Q. Please summarize Staff's Adjustment \#3 regarding the amortization of NonProtected EADIT.
A. Staff adjusts the amortization period for Non-Protected EADIT amortization to five years. ${ }^{8}$ For the Non-Protected Non-Property related EADIT, Staff states that because the largest contributor to Non-Protected Non-Property related EADIT was regulatory assets, and regulatory assets are "characteristically short lived," ${ }^{"}$ the appropriate amortization

[^2]period should be five years. For Non-Protected Property related EADIT, Staff claims that due to the delay in the start of amortization, Non-Protected Property related EADIT should be returned over the same five-year period. ${ }^{10}$

## Q. Are these adjustments appropriate?

A. No. EnergyNorth is proposing the same EADIT treatment that was allowed for its sister company, Granite State, in its recent rate case. That is, the Company proposes to return the Non-Protected EADIT to customers over the same period of time as the protected EADIT.

Staff's generalization that regulatory assets are "characteristically short-lived" is incorrect. Its position is purely speculative and is not based on a detailed analysis of the regulatory assets that were in existence on December 31, 2017. In fact, a review of the EnergyNorth's December 31, 2017, regulatory assets ${ }^{11}$ shows the regulatory assets are long-lived items that are primarily related to environmental costs and pension and other post-retirement employment benefits. Environmental regulatory assets, for example, have lives closer to thirty years. More importantly, of the $\$ 77.5$ million of regulatory assets in existence on December 31, 2017, environmental regulatory assets make up $\$ 48.1$ million or 62 percent of the entire balance. Therefore, Staff's recommendation to amortize Non-Protected Non-Property EADIT related to these assets over five years is not reasonable and should be rejected. The Company continues to believe that

[^3]amortizing all EADIT over the average remaining life produces an equitable result for both EnergyNorth and its customers, as was allowed for Granite State.

## Q. Do you agree with Staff's proposal to return Non-Protected Property related EADIT over five years?

A. No. Staff cites ${ }^{12}$ the delay in EADIT amortization the Company requested to determine if it had adequate information to calculate the Average Rate Assumption Method ("ARAM") rate as support for its recommendation for returning Non-Protected Property related EADIT over five years. However, if the Company had failed to utilize ARAM, assuming it had the information required to calculate ARAM, it would have been in direct conflict with the 2017 Tax Act. The 2017 Tax Act required companies with the ability to calculate ARAM to return Protected Property related EADIT under that method. Failure to calculate ARAM would have created a tax normalization violation, thus jeopardizing the Company's ability to utilize accelerated depreciation for income tax purposes, which would be a completely unacceptable outcome for the Company and its customers. Accelerated depreciation allows the Company to access cash free capital while customers enjoy the benefit of that cash free capital through a deduction in rate base. Additionally, customers were not materially harmed by the Commission-approved slight delay in the start of the amortization as all the EADIT created by the tax rate change will flow back to customers. Staff admits that returning Non-Protected Property related EADIT over the average remaining life is not an unreasonable approach. ${ }^{13}$ For

[^4]these reasons, Staff's recommendation to return Non-Protected Property related EADIT over five years should be rejected.

## Q. Please summarize Staff's Adjustment \#6 regarding long term incentive compensation (LTIP).

A. Staff proposes to remove LTIP costs from the Company's revenue requirement. ${ }^{14}$

## Q. Is it reasonable to exclude LTIP costs from recovery in the Company's revenue requirement?

A. No. These plans are part of the Company's market-based compensation and enable the Company to attract and retain a highly qualified senior management team. Incentives are part of the Company's overall compensation package. The incentive compensation (i.e. variable pay) is tied to the Company's performance, which is a widely utilized method of compensating employees by placing a portion of compensation at risk. The plan includes financial performance goals that are designed to drive cost efficiencies in Company operations. The Company's compensation program creates incentives for its employees to reduce costs to the ultimate benefit of customers. Because the Company operates in a return-regulated environment with an obligation to serve its customers, the incentive plan serves an important purpose of aligning the interests of the Company and its customers to reduce costs and identify operational efficiencies. Further, the LTIP program also measures achievements in the areas of safety and customer satisfaction, which have direct customer benefit and are not associated with Company earnings (Staff's witness did not

[^5]make note of these additional areas, although they were recognized by Staff's revenue requirements witness in EnergyNorth's prior rate case). For these reasons, the Commission should reject Staff's proposal to exclude these costs.

## Q. Please summarize Staff's Adjustment \#7 regarding payroll taxes.

A. Staff makes two adjustments to the Company's payroll taxes. First, Staff substitutes the Company's payroll tax loading factor with that of its sister company, Granite State, from Docket No. DE 19-064. ${ }^{15}$ Second, Staff updates the payroll tax expense amount based on other proposed changes to the Company's proposed labor expense. ${ }^{16}$
Q. Do you agree with Staff's adjustment to substitute Granite State's payroll tax load factor for the Company's?
A. No. Staff's adjustment fails to consider the Company's accounting for capitalized payroll tax expense. The Company records all payroll taxes in FERC Account No. 408 Taxes Other Than Income Taxes, for both capitalized and operating labor. The capitalized portion is then removed from Account No. 408 through a credit to FERC Account No. 922 Administrative Expenses Transferred - Credit, and a debit to FERC Account No. 107 Construction Work in Progress - Gas as part of the overhead burden rate applied to construction projects. Staff's adjustment essentially only calculates, and would only allow the Company to recover, payroll tax expense related solely to operating labor. If payroll tax expense is calculated solely applied to operating labor, the Company will under-collect. The Company's method of calculating payroll tax expense provides a

[^6]more accurate estimate of payroll tax expense for both capitalized and operating labor on a prospective basis while Staff's adjustment would result in a revenue deficiency for the Company.
Q. Do you agree with Staff's proposed adjustment to include the effects of its labor increase percentage and CSR Ratification Bonus amortization in the calculation of payroll tax expense?
A. Yes, in theory. Any changes to labor expense should be considered when determining the appropriate amount of payroll tax expense going forward.
Q. Please summarize Staff's Adjustment \#8 regarding Directors and Officers ("D\&O") Liability Insurance.
A. Staff adjusted the Company's requested D\&O insurance to assign fifty percent of the cost responsibly to the Company's shareholders.
Q. Do you agree with Staff's proposed adjustment to assign fifty percent of D\&O cost to shareholders?
A. No. D\&O insurance is a necessary business expense and is prudently incurred by the Company. D\&O insurance, like property insurance or any other type of insurance the Company requires to operate its business, is designed to protect the Company from financial risks in conducting its business, which, in effect, protects customer interests. D\&O insurance policies not only protect the directors and officers individually, but also protect the assets of the Company. As such, recovery of the entire amount of D\&O
insurance costs through distribution rates is appropriate. Accordingly, Staff's proposal to assign fifty percent of the cost to shareholders should be rejected.

## Q. Please summarize Staff's Adjustment \#11 regarding the presentation of Pelham risk sharing. <br> A. Staff adjusted the Company's revenue requirement for Pelham risk sharing based on the Company's inclusion of projected revenues from a committed large industrial customer that has yet to take service. ${ }^{17}$

## Q. Is this adjustment appropriate?

A. No. The joint rebuttal testimony of Company witnesses William J. Clark and Steven E. Mullen discusses the Company's position regarding Pelham risk sharing. Attachment DBS/KAS-1-Rebuttal includes no adjustment related to Pelham risk sharing.

## Q. Please summarize Staff's Adjustment \#12 regarding the amortization of the Company's depreciation reserve imbalance.

A. Staff recommends that the Company's current depreciation imbalance should stop, and the amortization removed from the Test Year. ${ }^{18}$

## Q. Is this a reasonable adjustment?

A. No. The rebuttal testimony of Mr. Mullen discusses the Company's response to the Staff's position on the depreciation reserve imbalance amortization. Attachment

[^7]DBS/KAS-1-Rebuttal includes no adjustment related to EnergyNorth's current depreciation imbalance amortization.

## Q. Please summarize Staff's Adjustment \#13 regarding capitalized fleet depreciation.

A. Staff recommended the Company remove from its rate base allocated capitalized fleet depreciation expense and recover the removed amount in depreciation expense. ${ }^{19}$ Specifically, Staff's position is that the Company is incorrectly capitalizing a portion of its fleet vehicle depreciation expense as a component of gas plant costs and should instead expense the entire amount.

## Q. Is Staff's position correct?

A. No. The Company's accounting treatment of these costs complies with the FERC

Uniform System of Accounts ("FERC USoA"). The Gas Plant Instructions in 18 C.F.R. Pt. 201, 3 - Components of construction cost, sections (4) and (5) state:
(4) "Transportation" includes the cost of transporting employees, materials and supplies, tools, purchased equipment, and other work equipment (when not under power) to and from points of construction. It includes amounts paid to others as well as the cost of operating the utility's own equipment. (See item 5 following.)
(5) Special machine service includes, the cost of labor (optional), materials and supplies, depreciation, and other expenses incurred in the maintenance, operation and use of special machines, such as steam shovels, pile drivers, derricks, ditchers, scrapers, material unloaders, and other labor saving machines; also expenditures for rental, maintenance and operation of machines of others. It does not include the cost of small value or short life which are include in the cost of materials and supplies. (See item 3, above.) When a particular construction job requires the use for an extended period of time of special machines, transportation or other equipment, the net book value thereof, less the appraised or salvage value

[^8]at the time of release from the job, shall be included in the cost of construction. (Emphasis added)

Fleet vehicles are routinely utilized to perform activities and to transport employees to and from construction sites. Section 4 above makes it clear that the cost of operating the "utility's own equipment" is an allowable capitalized cost. Depreciation is a cost of operating the fleet vehicles and is even called out specifically under section 5 of FERC's components of construction costs. Further, Note B to the instructions for Account 403 Depreciation Expense states:

Depreciation expenses applicable to transportation equipment, shop equipment, tools, work equipment, power operated equipment and other general equipment may be charged to clearing accounts as necessary in order to obtain a proper distribution of expenses between construction and operation.

Thus, the capitalization of depreciation expense under these conditions is necessary and appropriate under US GAAP standard ASC 360, and the Uniform System of Accounts. For those reasons, Staff's proposed adjustment to capitalized fleet depreciation expense is unfounded and should be rejected.
Q. Do you have any other concerns with Staff's testimony regarding its adjustment to rate base and depreciation expense for capitalized fleet depreciation?
A. Yes. Contrary to Staff's view, the accounting treatment in question is a benefit to customers. For rate making purposes, uncapitalized operating expenses are recovered annually while capitalized expenses are recovered over the life of the underlying asset. In essence, what the Company does is take a small amount of depreciation expense,
recognizing it as a cost of construction and therefore correctly including it in the cost of a long-lived asset, and amortizing recovery of that amount over many years. Through capitalization, future customers will pay their fair share of all of the costs involved with installation of a new asset, including fleet depreciation, while under Staff's approach costs would only be borne by the current generation of customers.

## Q. Please summarize Staff's Adjustment \#15 regarding interest synchronization.

A. Staff's adjustment synchronizes rate base and cost of capital with the tax calculation using Staff's proposed weighted cost of debt. ${ }^{20}$

## Q. Do you agree with this adjustment?

A. Yes, in theory. The Company agrees that interest synchronization should be adjusted to reflect any final adjustments to rate base and the cost of capital. That approach is consistent with the approach taken by the Company in its original filing and CU filing. Schedule RR-EN-3-8, line 11 shows the adjusted amount of synchronized interest expense of $\$ 7,626,555$, which is $\$ 407$ lower than the $\$ 7,626,962$ included in the CU filing.

[^9]Q. Does the Company agree with Staff's proposed adjustments relative to the cost of capital?
A. No. Liberty supports its initial filing with respect to the return on equity and capital structure. This is discussed in the rebuttal testimony of Company witness John Cochrane of FTI Consulting.
Q. Ms. Mullinax's testimony also includes adjustments that are labeled "iNATGAS" and "Keene Risk Sharing." What is the Company's position with respect to those adjustments?
A. Both of Staff's proposed adjustments should be rejected. These topics are addressed in the joint rebuttal testimony of Messrs. Clark and Mullen.
Q. Did you update the functional cost of service model to reflect the Company's rebuttal revenue requirement position?
A. Yes. We have provided an updated functional cost of service model based on the Company's rebuttal revenue requirement. ${ }^{21}$ The proposed revenue increase related to the cost of gas has decreased by $\$ 20,207$ from the CU filing amount of $\$ 2,033,998$, to \$2,013,791.
Q. Does this conclude your rebuttal testimony?
A. Yes, it does.

[^10]
## Liberty Utilities (EnergyNorth) <br> Index to Revenue Requirement Schedules <br> Test Year Ended December 31, 2019

| Line | Title | Reference |
| :---: | :---: | :---: |
| 1 | Summary Schedules |  |
| 2 | Index to Revenue Requirement Schedules | Index |
| 3 | Rebuttal Revenue Impact Summary | Schedule RR-Summary |
| 4 | Revenue Deficiency and Revenue Requirement | Schedule RR-1 |
| 5 | Operating Income Statement - EnergyNorth | Schedule RR-EN-2 |
| 6 | Operating Income Statement - Detail - EnergyNorth | Schedule RR-EN-2-1 |
| 7 | Summary of Adjustments | Schedule RR-EN-3 |
| 8 |  |  |
| 9 |  |  |
| 10 | Adjustments - EnergyNorth |  |
| 11 | Adjustment 1-Revenue Adjustments | Schedule RR-EN-3-1 |
| 12 | Adjustment 2 - Salary and Wage Expense | Schedule RR-EN-3-2 |
| 13 | Adjustment 3 - Payroll Tax Expense | Schedule RR-EN-3-3 |
| 14 | Adjustment 4 - Pension and Benefits Expense | Schedule RR-EN-3-4 |
| 15 | Adjustment 5 - Depreciation Expense | Schedule RR-EN-3-5 |
| 16 | Adjustment 6 - Amortization Expense | Schedule RR-EN-3-6 |
| 17 | Adjustment 7 - Property Tax | Schedule RR-EN-3-7 |
| 18 | Adjustment 8 - Income Tax Expense - Historical Test Year | Schedule RR-EN-3-8 |
| 19 | Adjustment 9 - Income Tax Expense - Pro Forma Test Year at Current Rates | Schedule RR-EN-3-9 |
| 20 | Adjustment 10-Other Adjustments | Schedule RR-EN-3-10 |
| 21 |  |  |
| 22 |  |  |
| 23 | Cost of Capital |  |
| 24 | Weighted Average Cost of Capital | Schedule RR-EN-4 |
| 25 |  |  |
| 26 | Rate Base |  |
| 27 | Rate Base - EnergyNorth | Schedule RR-EN-5 |
| 28 | Rate Base Quarterly Balances - EnergyNorth | Schedule RR-EN-5-1 |
| 29 | Cash Working Capital - EnergyNorth | Schedule RR-EN-5-2 |
| 30 |  |  |
| 31 | Step Increase |  |
| 32 | Step Increase - EnergyNorth | Schedule Step-EN |
| 33 |  |  |
| 34 | Rate Case Expense |  |
| 35 | Rate Case Expense | Schedule RC |


| $\begin{aligned} & \text { Adjustment } \\ & \text { No. } \end{aligned}$ | Source | Schedule <br> Changed | Description | Adjustment Amount Rate Base |  | Change in Revenue Increase |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Staff Adjustment 4 | RR-EN-3-2 | Payroll rate increase to 2.47\% | \$ | - | \$ | $(108,956)$ |
| 2 | Staff Adjustment 5 | RR-EN-3-2 | Normalize CSR 2019 Ratificaiton Bonus |  | - |  | $(14,400)$ |
| 3 | Staff Adjustment 9 | RR-EN-3-7 | Remove Double Count NH True Up |  | - |  | $(230,708)$ |
| 4 | Staff Adjustment 10 | RR-EN-3-10 | Remove Additional Keene Costs |  | - |  | $(5,313)$ |
| 5 | Clark/Mullen Rebuttal | RR-EN-3-1 | Pelham Risk Sharing Change |  | - |  | 2,712 |
| 6 | n/a | RR-EN-5-2 | Cash Working Capital True-up |  | $(18,519)$ |  | $(1,746)$ |
|  |  |  |  | \$ | $(18,519)$ | \$ | $(358,410)$ |

## Liberty Utilities (EnergyNorth) <br> Revenue Deficiency and Revenue Requirement <br> Test Year With Known and Measurable Changes

| Line | Description | Reference | EnergyNorth |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Rate Base | RR-5 | \$ | 346,131,311 |
| 2 |  |  |  |  |
| 3 | Target Rate of Return on Rate Base | RR-4 |  | 7.47\% |
| 4 |  |  |  |  |
| 5 | Operating Income Requirement | Line $1 \times$ Line 3 | \$ | 25,856,009 |
| 6 |  |  |  |  |
| 7 | Operating Income at Present Rates | RR-2 | \$ | 22,519,695 |
| 8 |  |  |  |  |
| 9 | Operating Income Deficiency | Line 5 - Line 7 | \$ | 3,336,314 |
| 10 |  |  |  |  |
| 11 | Gross-up Factor for Additional Income Taxes | Line 19 |  | 1.3714 |
| 12 |  |  |  |  |
| 13 | Revenue Deficiency | Line 9 X Line 11 | \$ | 4,575,308 |
| 14 |  |  |  |  |
| 15 | Gross-up Factor for Income Taxes |  |  |  |
| 16 | Federal Income Tax Rate |  |  | 21.00\% |
| 17 | New Hampshire State Income Tax Rate |  |  | 7.70\% |
| 18 | Combined Income Tax Rate | Line 16 + Line 17 - (Line 16 X Line 17) |  | 27.08\% |
| 19 | Gross-up Factor | $1 /$ (1-Line 18) |  | 1.3714 |
| 20 |  |  |  |  |
| 21 | Additional Income Tax Required | Line 13-Line 9 | \$ | 1,238,993 |
| 22 |  |  |  |  |
| 23 | Distribution Revenue at Present Rates | RR-2 | \$ | 94,850,554 |
| 24 |  |  |  |  |
| 25 | \% Increase Needed | Line 13 / Line 23 |  | 4.82\% |
| 26 |  |  |  |  |
| 27 | Revenue with Increase | RR-2 | \$ | 99,425,862 |
| 28 |  |  |  |  |
| 29 | \% Increase Needed - Total Revenue |  |  | 2.79\% |


| Source |  | RR-EN-3 |  |  |  |  |  |  |  |  |  | RR-1 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line | Account |  | Test Year <br> Ended ecember 31, 2019 | Cost of Gas \& LDAC |  | Distribution <br> Operating Income |  | Known and <br> Measurable <br> Adjustments |  | Test Year at Current Rates |  |  | Proposed <br> Increase | Distribution Operating Income with Proposed Increase |  |
| 1 | Revenue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Operating Revenue | \$ | 157,984,809 | \$ | $(72,649,313)$ | \$ | 85,335,497 | \$ | 1,348,864 | \$ | 86,684,361 | \$ | 2,561,517 | \$ | 89,245,877 |
| 3 | Decoupling |  | 4,965,231 |  | - |  | 4,965,231 |  | - |  | 4,965,231 |  | - |  | 4,965,231 |
| 4 | COG Revenue (credit to Account 846) |  | - |  | 1,993,587 |  | 1,993,587 |  | - |  | 1,993,587 |  | 2,013,791 |  | 4,007,378 |
| 5 | Other Revenue |  | 1,207,376 |  | - |  | 1,207,376 |  | - |  | 1,207,376 |  | - |  | 1,207,376 |
| 6 |  | \$ | 164,157,416 | \$ | (70,655,726) | \$ | 93,501,690 | \$ | 1,348,864 | \$ | 94,850,554 | \$ | 4,575,308 | \$ | 99,425,862 |
| 7 ( 7 - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Operating Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Operations and Maintenance - Gas | \$ | 70,188,045 | \$ | $(68,365,777)$ | \$ | 1,822,267 | \$ | $(152,771)$ | \$ | 1,669,496 |  |  | \$ | 1,669,496 |
| 10 | Operations and Maintenance - Distribution |  | 14,187,750 |  | - |  | 14,187,750 |  | 117,974 |  | 14,305,724 |  |  |  | 14,305,724 |
| 11 | Customer Accounting |  | 4,011,638 |  | 983,441 |  | 4,995,080 |  | 30,109 |  | 5,025,189 |  |  |  | 5,025,189 |
| 12 | Sales and New Business |  | 663,477 |  | - |  | 663,477 |  | $(33,575)$ |  | 629,902 |  |  |  | 629,902 |
| 13 | Administrative \& General |  | 8,719,450 |  | - |  | 8,719,450 |  | $(643,667)$ |  | 8,075,783 |  |  |  | 8,075,783 |
| 14 | Depreciation and Amortization |  | 25,339,396 |  | $(3,025,052)$ |  | 22,314,344 |  | 586,182 |  | 22,900,526 |  |  |  | 22,900,526 |
| 15 | Taxes other than Income Taxes |  | 14,030,617 |  | - |  | 14,030,617 |  | 162,818 |  | 14,193,436 |  |  |  | 14,193,436 |
| 16 | Income Taxes |  | 3,709,928 |  | - |  | 3,709,928 |  | 1,820,876 |  | 5,530,804 |  | 1,238,993 |  | 6,769,798 |
| 18 |  | \$ | 140,850,302 | \$ | (70,407,388) | \$ | 70,442,914 | \$ | 1,887,946 | \$ | 72,330,860 | \$ | 1,238,993 | \$ | 73,569,853 |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Utility Net Income | \$ | 23,307,114 | \$ | $(248,338)$ | \$ | 23,058,776 | \$ | (539,082) | \$ | 22,519,695 | \$ | 3,336,314 | \$ | 25,856,009 |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | Rate Base |  |  |  |  | \$ | 346,131,311 |  |  | \$ | 346,131,311 |  |  | \$ | 346,131,311 |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | Rate of Return on Rate Base |  |  |  |  |  | 6.66\% |  |  |  | 6.51\% |  |  |  | 7.47\% |


| Line Source |  |  | Test Year Ended December 31, 2019 | Cost of Gas \& LDAC | RR-EN-3 |  |  | RR-EN-3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Account <br> Number |  |  | Distribution Operating Income | Known and Measurable Adjustments | Test Year At Current Rates | Labor |  | Labor Pro <br> Forma |  |
| 1 | OPERATION AND MAINTENANCE EXPENSES |  |  |  |  |  |  |  |  |  |  |
| 2 | O\&M - Gas Production |  |  |  |  |  |  |  |  |  |  |
| 3 | Operation Supervision and Engineering | 710 | 976,663 | \$ | 976,663 | \$ 13,426 | 990,089 | \$ | 944,645 | \$ | 958,071 |
| 4 | Liquefied Petroleum Gas Expenses | 717 | - | - | - | - | - |  | - |  |  |
| 5 | Liquefied Petroleum Gas | 728 |  | - | - | - | - |  | - |  | - |
| 6 | Gas Mixing Expense | 733 | 185,703 | - | 185,703 | $(121,666)$ | 64,037 |  | 185,703 |  | 188,343 |
| 7 | Miscellaneous Production Expenses | 735 | 514,254 | - | 514,254 | $(44,534)$ | 469,719 |  | - |  | - |
| 8 | Maintenance of Production Equipment | 742 | 119,531 | (1,58,035) | 119,531 | - | 119,531 |  | - |  | - |
| 9 | Natural Gas City Gate Purchases | 804 | 1,458,035 | $(1,458,035)$ | - | - | - |  | - |  | - |
| 10 | Other Gas Purchases | 805 | 67,686,807 | $(67,686,807)$ | - | - | - |  | - |  | - |
| 11 | Gas Withdrawn from Storage | 808 | 1,214,522 | $(1,214,522)$ | - | - | - |  | - |  |  |
| 12 | Operation Labor and Expenses | 841 |  | - | - | - | - |  | - |  | - |
| 13 | Other Expenses | 846 | $(1,967,471)$ | 1,993,587 | 26,116 | 4 | 26,120 |  | 263 |  | 267 |
| 14 | Total O\&M - Gas Production |  | \$ 70,188,045 | \$ (68,365,777) | 1,822,267 | \$ (152,771) | 1,669,496 | \$ | 1,130,611 | \$ | 1,146,680 |
| 15 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | O\&M - Distribution Expenses |  |  |  |  |  |  |  |  |  |  |
| 17 | Measuring and Regulating Station Expenses (Transmission) | 857 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ | \$ - | \$ | - |
| 18 | Maintenance of Mains (Transmission) | 863 | - | - | - | - | - |  | - |  | - |
| 19 | Operation Supervision and Engineering | 870 | 536,299 | - | 536,299 | 4,219 | 540,518 |  | 331,359 |  | 336,069 |
| 20 | Distribution Load Dispatching | 871 | 575,530 | - | 575,530 | 8,173 | 583,704 |  | 575,068 |  | 583,241 |
| 21 | Mains Services Expenses | 874 | 5,633,309 | - | 5,633,309 | 48,327 | 5,681,636 |  | 3,497,946 |  | 3,547,661 |
| 22 | Measuring and Regulating Station Expenses - General | 875 | - | - | - | - | - |  | - |  | - |
| 23 | Measuring and Regulating Station Expenses - Industrial | 876 | - | - | - | - | - |  | - |  |  |
| 24 | Meter and House Regulator Expenses | 878 | 1,118,308 | - | 1,118,308 | 14,767 | 1,133,075 |  | 1,038,978 |  | 1,053,744 |
| 25 | Customer Installations Expenses | 879 | 629,292 | - | 629,292 | 8,858 | 638,150 |  | 623,226 |  | 632,084 |
| 26 | Other Expenses | 880 | 1,717,919 | - | 1,717,919 | 12,280 | 1,730,199 |  | 864,000 |  | 876,280 |
| 27 | Rents | 881 | 10,618 | - | 10,618 | - | 10,618 |  | - |  |  |
| 28 | Maintenance Supervision and Engineering | 885 | - | - | - | - | - |  | - |  | - |
| 29 | Maintenance of Structures and Improvements | 886 | 147,555 | - | 147,555 | 1,706 | 149,261 |  | 120,051 |  | 121,758 |
| 30 | Maintenance of Mains | 887 | 2,660,338 | - | 2,660,338 | 11,591 | 2,671,929 |  | 815,525 |  | 827,116 |
| 31 | Maintenance of Measuring and Regulating Station Expenses | 889 | - | - | - | - | - |  | - |  |  |
| 32 | Maintenance of Services | 892 | 462,357 | - | 462,357 | 2,929 | 465,285 |  | 206,069 |  | 208,998 |
| 33 | Maintenance of Meters and House Regulators | 893 | 351,020 | - | 351,020 | 3,746 | 354,765 |  | 263,554 |  | 267,300 |
| 34 | Maintenance of Other Equipment | 894 | 345,205 | - | 345,205 | 1,379 | 346,584 |  | 97,049 |  | 98,428 |
| 35 | Total O\&M - Distribution |  | \$ 14,187,750 | S | \$ 14,187,750 | 117,974 | 14,305,724 |  | 8,432,825 | \$ | 8,552,678 |
| 36 | Total O\&M - Gas Production and Distribution |  | \$ 84,375,795 | \$ (68,365,777) | \$ 16,010,018 | \$ (34,797) | \$ 15,975,221 | S | 9,563,437 | \$ | 9,699,359 |
| 37 |  |  |  |  |  |  |  |  |  |  |  |
| 38 | Customer Accounts Expenses |  |  |  |  |  |  |  |  |  |  |
| 39 | Supervision | 901 | \$ 243,201 | \$ | \$ 243,201 | \$ 3,457 | \$ 246,658 | \$ | 243,201 | \$ | 246,658 |
| 40 | Meter Reading Expenses | 902 | 323,371 | - | 323,371 | 4,231 | 327,602 |  | 297,723 |  | 301,954 |
| 41 | Customer Records and Collection Expenses | 903 | 2,734,690 | - | 2,734,690 | 22,421 | 2,757,111 |  | 1,577,532 |  | 1,599,953 |
| 42 | Uncollectible Accounts | 9040 | 1,680,770 | - | 1,680,770 | - | 1,680,770 |  | - |  | - |
| 43 | Bad Debt Expense - Commodity | 9041 | $(983,441)$ | 983,441 | - | - | - |  | - |  | - |
| 44 | Miscellaneous Customer Accounts Expenses | 905 | 13,047 | - | 13,047 | - | 13,047 |  | - |  |  |
| 45 | Total Customer Accounting |  | \$ 4,011,638 | \$ 983,441 | 4,995,080 | \$ 30,109 | \$ 5,025,189 | \$ | 2,118,456 | \$ | 2,148,565 |
| 46 |  |  |  |  |  |  |  |  |  |  |  |
| 47 | Customer Service and Informational \& Sales Expenses |  |  |  |  |  |  |  |  |  |  |
| 48 | Cust Assistance | 908 | \$ | \$ | \$ | \$ | \$ | \$ | \$ - | \$ |  |
| 49 | Informational and Instructinal Advertising Expenses | 909 | 95,856 | - | 95,856 | $(14,122)$ | 81,733 |  | 21,409 |  | 21,713 |
| 50 | Cust Service Misc | 910 | 15,180 | - | 15,180 | - | 15,180 |  | - |  |  |
| 51 | Sales \& Advertising | 912 | 449,660 | - | 449,660 | 5,946 | 455,606 |  | 418,379 |  | 424,325 |
| 52 | Advertising Expenses | 913 | 26,484 | - | 26,484 | $(26,484)$ | 0 |  |  |  |  |
| 53 | Miscellaneous Sales Expenses | 916 | 76,299 | - | 76,299 | 1,084 | 77,383 |  | 76,299 |  | 77,383 |
| 54 | Total Customer Service and Informational \& Sales Expenses |  | \$ 663,477 | \$ | \$ 663,477 | \$ (33,575) | \$ 629,902 | \$ | 516,086 | \$ | 523,421 |
| 55 | Total Customer Accounts, Customer Service and Informational |  | \$ 4,675,116 | \$ 983,441 | \$ 5,658,557 | \$ (3,466) | \$ 5,655,091 | \$ | 2,634,542 | \$ | 2,671,986 |
| 56 |  |  |  |  |  |  |  |  |  |  |  |
| 57 | Administrative and General Expenses |  |  |  |  |  |  |  |  |  |  |
| 58 | A\&G Salaries | 9200 | \$ 2,690,132 | \$ | \$ 2,690,132 | \$ 34,648 | \$ 2,724,780 | \$ | 2,437,821 | \$ | 2,472,469 |
| 59 | A\&G Salaries - LU Head Office | 9201 | 3,128,482 | - | 3,128,482 | - | 3,128,482 |  | Allocat | ed co |  |
| 60 | Office Supplies and Expenses | 921 | 2,214,501 | - | 2,214,501 | $(16,202)$ | 2,198,299 |  | - |  |  |
| 61 | Administrative Expenses Transferred | 9220 | $(13,438,703)$ | - | $(13,438,703)$ | 233,952 | (13,204,750) |  | Allocat |  |  |
| 62 | LU Labor Allocations Capitalized | 9221 | $(2,935,673)$ | - | $(2,935,673)$ | - | $(2,935,673)$ |  | Allocat | d |  |
| 63 | Outside Services Employed | 9230 | 1,038,455 | - | 1,038,455 | $(84,318)$ | 954,137 |  | - |  | - |
| 64 | Allocated LU Head Office | 9231 | 6,179,915 | - | 6,179,915 | - | 6,179,915 |  | - |  | - |
| 65 | Property Insurance | 924 | 51,523 | - | 51,523 | - | 51,523 |  | - |  | - |
| 66 | Injuries and Damages | 925 | 814,179 | - | 814,179 | - | 814,179 |  | - |  | - |
| 67 | Employee Pensions and Benefits | 926 | 7,987,623 | - | 7,987,623 | $(732,228)$ | 7,255,395 |  | - |  | - |
| 68 | Regulatory Commission Expenses | 928 | 813,919 | - | 813,919 | $(36,883)$ | 777,036 |  | - |  | - |
| 69 | Miscellaneous General Expenses | 930 | 1,146 | - | 1,146 | - | 1,146 |  | - |  | - |
| 70 | Rents | 931 | 173,951 | - | 173,951 | $(42,637)$ | 131,314 |  | - |  | - |
| 71 | Maintenance of General Plant | 932 |  | - |  | - |  |  | - |  |  |
| 72 | Total Administrative \& General |  | \$ 8,719,450 | \$ | \$ 8,719,450 | \$ $(643,667)$ | \$ 8,075,783 | \$ | 2,437,821 | \$ | 2,472,469 |
| 73 | Total Operation and Maintenance Expenses |  | \$ 97,770,361 | \$ (67,382,336) | \$ 30,388,025 | $(681,930)$ | \$ 29,706,094 | \$ | 14,635,799 | \$ | 14,843,813 |


| Source |  |  |  |  | RR-EN-3 |  |  |  |  |  | RR-EN-3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line | Account | Account <br> Number | Test Year Ended <br> December 31, 2019 | Cost of Gas \& LDAC | Distribution Operating Income |  | Known and <br> Measurable <br> Adjustments |  | Test Year At Current Rates |  | Labor |  | Labor Pro Forma |  |
| 75 | DEPRECIATION AND AMORTIZATION EXPENSE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76 | Depreciation Expense | 403 | \$ 18,173,439 | \$ | \$ | \$ 18,173,439 | \$ | 1,836,152 | \$ | 20,009,591 |  |  |  |  |
| 77 | Amortization - Intangibles | 405 | 3,435,643 | - |  | 3,435,643 |  | $(128,313)$ |  | 3,307,330 |  |  |  |  |
| 78 | Regulatory Debits - Amortization of Regulatory Assets | 4073 | 705,261 | - |  | 705,261 |  | 186,853 |  | 892,115 |  |  |  |  |
| 79 | Regulatory Credits - Amortization of Regulatory Liabilities | 4074 | 3,025,052 | $(3,025,052)$ |  | - |  | $(1,308,511)$ |  | $(1,308,511)$ |  |  |  |  |
| 80 | Total Depreciation and Amortization Expense |  | \$ 25,339,396 | \$ $(3,025,052)$ | \$ | 22,314,344 | \$ | 586,182 | \$ | 22,900,526 |  |  |  |  |
| 81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82 | TAXES OTHER THAN INCOME TAXES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83 | Taxes other than Income Taxes - Payroll Taxes | 408 | \$ 1,625,755 | \$ | \$ | \$ 1,625,755 | \$ | 372,220 | \$ | 1,997,975 |  |  |  |  |
| 84 | Taxes other than Income Taxes - Property Taxes | 408 | 12,404,863 | - |  | 12,404,863 |  | $(209,402)$ |  | 12,195,461 |  |  |  |  |
| 85 | Total Taxes other than Income Taxes |  | \$ 14,030,617 | \$ | \$ | 14,030,617 | \$ | 162,818 | \$ | 14,193,436 |  |  |  |  |
| 86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87 | FEDERAL / STATE INCOME TAXES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88 | Income Tax Expense | 409-410 | \$ 3,709,928 | \$ | \$ | \$ 3,709,928 | \$ | 1,820,876 | \$ | 5,530,804 |  |  |  |  |
| 89 | Subtotal - Income Tax |  | \$ 3,709,928 | \$ | \$ | 3,709,928 | \$ | 1,820,876 | \$ | 5,530,804 |  |  |  |  |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 93 | TOTAL EXPENSES |  | \$ 140,850,302 | \$ (70,407,388) | \$ | 70,442,914 | \$ | 1,887,946 | \$ | 72,330,860 | \$ | 14,635,799 | \$ | 14,843,813 |
| 94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95 | REVENUES |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 96 | Operating Revenue |  | \$ 157,984,809 | \$ (72,649,313) | \$ | \$ 85,335,497 | \$ | 1,348,864 | \$ | 86,684,361 |  |  |  |  |
| 97 | Decoupling |  | 4,965,231 | - |  | 4,965,231 |  | - |  | 4,965,231 |  |  |  |  |
| 98 | COG Revenue (credit to Account 846) |  |  | 1,993,587 |  | 1,993,587 |  | - |  | 1,993,587 |  |  |  |  |
| 99 | Other Revenue |  | 1,207,376 | - |  | 1,207,376 |  | - |  | 1,207,376 |  |  |  |  |
| 100 | Total Revenue |  | \$ 164,157,416 | \$ (70,655,726) | \$ | 93,501,690 | \$ | 1,348,864 | \$ | 94,850,554 |  |  |  |  |
| 101 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 102 | UTILITY NET INCOME |  | \$ 23,307,114 | \$ (248,338) | \$ | 23,058,776 | \$ | (539,082) | \$ | 22,519,695 |  |  |  |  |
| 103 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 104 | TOTAL RATE BASE | RR-EN-5 | \$ 346,131,311 |  |  | 346,131,311 |  |  | \$ | 346,131,311 |  |  |  |  |
| 105 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 106 | Income Tax Rate |  | 13 73\% |  |  | 13 86\% |  |  |  | 19 72\% |  |  |  |  |
| 107 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 108 | Rate of Return |  | $673 \%$ |  |  | $666 \%$ |  |  |  | $651 \%$ |  |  |  |  |

Docket No. DG 20-105
Attachment DBS/KAS-1-Rebuttal


Docket No. DG 20-105


Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 1
Revenue Adjustments

| Line | Description | $\begin{gathered} \hline \text { Current Amounts } \\ (12 / 31 / 2019 \\ \text { Test Year }) \\ \hline \end{gathered}$ |  | Source/Notes |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Operating Revenue | \$ | 85,335,497 | Trial Balance |
| 2 |  |  |  |  |
| 3 | Adjustments to Operating Revenue |  |  |  |
| 4 |  |  |  |  |
| 5 | CNG Station Revenue Requirement Adjustment | \$ | $(11,187)$ | Staff Request TS 3-6 |
| 6 | Low Income Adjustment |  | $(64,825)$ |  |
| 7 | Granite Ridge Special Contract |  | $(776,312)$ |  |
| 8 | iNATGAS Special Contract |  | $(24,630)$ |  |
| 9 | Allowed Base Revenue Adjustment to Test Year |  | $(831,044)$ |  |
| 10 | Customer Count Adjustment |  | 734,227 | Required by Commission Order No 26,122 |
| 11 | Pelham Risk Sharing Adjustment |  | 61,871 | Mullen Testimony |
| 12 | One-time correcting entry - ROR on Concord Steam Adjustment |  | $(45,747)$ | DBS/KAS-1 |
| 13 | One-time correcting entry - True-up on LRAM Adjustment |  | 81,406 | DBS/KAS-1 |
| 14 | CIBS Revenue Adjustment |  | 1,612,633 | Required by Commission in Docket DG 20-049 |
| 15 | End of Year Rate Adjustment |  | 612,472 | Input (Table 1 of DeCourcey Testimony) |
| 16 | Pro Forma Operating Revenue | \$ | 86,684,361 |  |
| 17 |  |  |  |  |
| 18 | Total Adjustment to Operating Revenues | \$ | 1,348,864 |  |

Liberty Utilities (EnergyNorth)
Adjustment 2
Salary and Wage Expense

| Line | Department | Total |  |
| :---: | :---: | :---: | :---: |
| 1 | Test Year LU NH Labor Charged to EnergyNorth | \$ | 14,635,799 |
| 2 | Less: vacancy adjustment |  | 211,691 |
| 3 | Net Test Year Labor Charged to EnergyNorth | \$ | 14,424,108 |
| 4 | 2019 Salary \& Wage Increase Annualization- O\&M |  | 2.47\% |
| 5 | 2019 Payroll Increase Annualization (not in test year, effective March 2019) |  | 58,781 |
| 6 | 2019 LU NH Labor Charged to EnergyNorth Annualized |  | 14,482,889 |
| 7 |  |  |  |
| 8 | 2020 Salary \& Wage Increase - O\&M |  | 357,727 |
| 9 | Adjustment for pro rated increase (effective March 2020) |  | $(59,621)$ |
| 10 | 2020 Payroll Increase - O\&M | \$ | 298,106 |
| 11 |  |  |  |
| 12 | Test year LU Regional Allocated Labor (not included in test year labor) | \$ | 3,128,482 |
| 13 | 2019 Salary \& Wage Increase LU Regional |  | 2.47\% |
| 14 | 2019 Salary \& Wage Increase Annualization (not in test year) |  | 12,565 |
| 15 | 2019 Salary \& Wages Annualized | \$ | 3,141,047 |
| 16 |  |  |  |
| 17 | 2020 Salary \& Wage Increase - O\&M |  | 77,584 |
| 18 | Adjustment for pro rated increase (effective March 2020) |  | $(12,931)$ |
| 19 | 2020 Payroll Increase - O\&M | \$ | 64,653 |
| 20 |  |  |  |
| 21 | Pro Forma LU NH Labor for 2020 Payroll Increase |  | 17,986,695 |
| 22 | Less: 2019 Ratification Bonus |  | 18,000 |
| 23 | Plus: 5 year amortization of 2019 Ratification Bonus |  | 3,600 |
| 24 | Net Pro Forma LU NH Labor for 2020 Payroll Increase |  | 17,972,295 |
| 25 |  |  |  |
| 26 | Test Year Labor Charged to EnergyNorth |  | 17,764,281 |
| 27 |  |  |  |
| 28 | Increase Due to Known and Measurable - Payroll | \$ | 208,014 |

Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 3
Payroll Tax Expense

| Line | Particulars | Reference |
| :--- | :--- | ---: |
|  |  | Expense (\$) |
| 1 | Unadjusted Test Year Labor Expense | $R R-E N-2-1$ |
| 2 | Unadjusted Test Year Payroll Tax Expense | $R R-E N-2-1$ |
| 3 | Payroll Tax Rate (\%) | $\$$ |
| 4 |  | $14,635,799$ |
| 5 | Adjusted Test Year Labor Expense | $1,625,755$ |
| 6 | Payroll Tax Rate (\%) | $11.11 \%$ |
| 7 | Adjusted Payroll Tax Expense | $\$$ |
| 8 | Increase Due to Known and Measurable Payroll Tax Expense | $17,986,695$ |
| $11 \%$ |  |  |
| 1 |  |  |

Liberty Utilities (EnergyNorth)
Page 1 of 1
Adjustments to Test Year
Adjustment 4
Pension and Benefits Expense

| Line | Particulars | Source | Amount |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Test Year ended 12/31/2019 Benefits Expense | RR-3-04WP | \$ | 4,623,151 |
| 2 | Adjustment to Benefits Expense |  | \$ | 11,974 |
| 3 |  |  |  |  |
| 4 | Historical Test Year Pension \& OPEB Expense | RR-3-04WP | \$ | 3,300,364 |
| 5 | Adjustment to Pension \& OPEB Expense | RR-3-04WP | \$ | $(680,094)$ |
| 6 |  |  |  |  |
| 7 | Historical Test Year Other Employee Benefits Expense | RR-3-04WP | \$ | 64,108 |
| 8 | Adjustment to Other Employee Benefits Expense |  | \$ | $(64,108)$ |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 | Adjustment - Including Capitalized Portion of Pensions and OPEBs - To Account 926 |  | \$ | $(732,228)$ |
| 12 |  |  |  |  |
| 13 | Total | Ln 5 |  | $(680,094)$ |
| 14 | Capitalization Rate |  |  | 34 40\% |
| 15 |  |  |  |  |
| 16 | Adjustment - Capitalized Portion - To Account 922 |  | \$ | 233,952 |
| 17 |  |  |  |  |
| 18 |  |  |  |  |
| 19 | Adjustment to Rate Year Expense |  | \$ | $(498,276)$ |

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Schedule RR-EN-3-5(R)
Page 2 of 2

## Liberty Utilities (EnergyNorth) <br> Adjustments to Test Year Adjustment 5 <br> $\xrightarrow{\text { Adjustment } 5}$ Depreciation Expense



Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 6
Amortization Expense

| Line | Description | Reference | Amortization Expense |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Adjustment 1: Account 1929-4073 - Amortization of Costs to Achieve |  |  |  |
| 2 |  |  |  |  |
| 3 | Amount in Historical Test Year | RR-EN-2-1 | \$ | 705,261 |
| 4 | Remove Cost to Achieve |  |  | $(195,850)$ |
| 5 | New Costs to Achieve |  |  | 48,197 |
| 6 | Proposed Cost to Achieve |  |  | 3 |
| 7 | Add New Cost to Achieve Amortization |  |  | 16,066 |
| 8 | Remove Test Year Amortization for Concord Steam |  |  | $(500,658)$ |
| - | Add New Concord Steam Amortization |  |  | 518,100 |
| 10 | Adjustment |  | \$ | $(162,343)$ |
| 11 dreme |  |  |  |  |
| 12 | Adjustment 2: NHDAS Special Contract Amortization |  |  |  |
| 13 | Total NHDAS Special Contract Amount |  | \$ | 1,047,589 |
| 14 | Proposed Amortization Period (Years) |  |  | 3 |
| 15 | Adjustment |  | \$ | 349,196 |
| 16 |  |  |  |  |
| 17 |  | Adjustment to Test Year Account 407.3 |  | \$ | 186,853 |
| 18 |  |  |  |  |
| 19 | Adjustment 3: Amortization of Excess Accumulated Deferred Income Taxes (EADIT) |  |  |  |
| 20 | Total EADIT (inclusive of gross-up) |  | \$ | $(37,855,214)$ |
| 21 | Protected EADIT |  | \$ | $(33,434,927)$ |
| 22 | Weighted Average Remaining Life (years) |  |  | 2893 |
| 23 | Protected EADIT Amortization |  | \$ | $(1,155,718)$ |
| 24 |  |  |  |  |
| 25 | Unprotected EADIT (inclusive of gross-up) |  | \$ | $(4,420,287)$ |
| 26 | Unprotected EADIT Amortization Period (years) |  |  | 2893 |
| 27 | Unprotected EADIT Amortization |  | \$ | $(152,792)$ |
| 28 |  |  |  |  |
| 29 |  |  | Adjustment to Test Year Account 407.4 |  | \$ | (1,308,511) |
| 30 |  |  |  |  |
| 31 | Adjustment 4: Account 8640-4050-Amortization of Intangibles |  |  |  |
| 32 | Annual Amortization Expense, as Calculated | RR-EN-3-5 | \$ | 3,185,122 |
| 33 | Deprecation Reserve Imbalance (Account 405) |  | \$ | 733,248 |
| 34 | Amortization Period |  |  | 6 |
| 35 | Depreciation Reserve Impalance Amortization |  | \$ | 122,208 |
| 36 | Pro Forma Annual Amortization Expense |  |  | 3,307,330 |
| 37 | Historical Test Year Expense | RR-EN-2-1 |  | 3,435,643 |
| 38 | Adjustment |  | \$ | $(128,313)$ |
| 39 |  |  |  |  |
| 40 | Adjustment to Test Year Account 405.0 |  | \$ | $(128,313)$ |
| 41 |  |  |  |  |
| 42 | Total Adjustment |  | \$ | $(1,249,970)$ |

Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 7
Property Tax


Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 7
Property Tax

| Line | Municipality | Parcel | Tax Year 2019 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Installment \#1 |  | Installment \#2 |  | Total Due |  |
| 49 | Concord | 109/1/2 | \$ | 8,484 | \$ | 8,275 | \$ | 16,759 |
| 50 | Concord | 109/1/2 |  | 8,484 |  | 8,275 |  | 16,759 |
| 51 | Concord | 109/1/3 |  | 601 |  | 586 |  | 1,188 |
| 52 | Concord | 109/1/3 |  | 601 |  | 586 |  | 1,188 |
| 53 | Concord | 109/1/4 |  | 6,954 |  | 6,783 |  | 13,737 |
| 54 | Concord | 109/1/4 |  | 6,954 |  | 6,783 |  | 13,737 |
| 55 | Concord | 109/2/1 |  | 338 |  | 330 |  | 668 |
| 56 | Concord | 109/2/1 |  | 338 |  | 330 |  | 668 |
| 57 | Concord | 109/2/3 |  | 619 |  | 604 |  | 1,223 |
| 58 | Concord | 109/2/3 |  | 619 |  | 604 |  | 1,223 |
| 59 | Concord | 109/2/4 |  | 978 |  | 954 |  | 1,932 |
| 60 | Concord | 109/2/4 |  | 978 |  | 954 |  | 1,932 |
| 61 | Concord | NO00/1/13 |  | 1,326 |  | 1,293 |  | 2,619 |
| 62 | Concord | NO00/1/13 |  | 1,326 |  | 1,293 |  | 2,619 |
| 63 | Concord | P000/1/6 |  | 228 |  | 236 |  | 464 |
| 64 | Concord | P000/1/6 |  | 228 |  | 236 |  | 464 |
| 65 | Concord | P000/1/3 |  | 30,567 |  | 37,111 |  | 67,678 |
| 66 | Concord | P000/1/3 |  | 30,567 |  | 37,111 |  | 67,678 |
| 67 | Concord | NO00/1/2 |  | 319,552 |  | 370,457 |  | 690,009 |
| 68 | Concord | NO00/1/2 |  | 319,552 |  | 370,457 |  | 690,009 |
| 69 | Concord | 202Z/21 |  | 276 |  | 269 |  | 545 |
| 70 | Concord | 202Z/21 |  | 276 |  | 269 |  | 545 |
| 71 | Concord | 26/1/6 |  | 1,912 |  | 1,865 |  | 3,777 |
| 72 | Concord | 26/1/6 |  | 1,912 |  | 1,865 |  | 3,777 |
| 73 | Concord | 494Z/3 |  | 315 |  | 307 |  | 621 |
| 74 | Concord | 494Z/3 |  | 315 |  | 307 |  | 621 |
| 75 | Concord | 109/2/4/A |  | 6 |  | 6 |  | 12 |
| 76 | Concord | 109/2/4/A |  | 6 |  | 6 |  | 12 |
| 77 | State of NH | TRUE UP |  |  |  | 230,708 |  | 230,708 |
| 78 | State of NH | NH DRA 1-2 |  | 605,067 |  | 605,067 |  | 1,210,134 |
| 79 | State of NH | NH DRA 3-4 |  | 605,067 |  | 605,067 |  | 1,210,134 |
| 80 | Keene | 583038000001000 |  | 45,598 |  | 43,361 |  | 88,959 |
| 81 | Keene | 116039000000000 |  | 8,012 |  | 8,264 |  | 16,276 |
| 82 | R\&M REALTY | 582014000000000 |  | 5,249 |  | 5,385 |  | 10,633 |
| 83 | Keene Propane | 047020020000 |  | 21,051 |  | 20,281 |  | 41,332 |
| 84 | State of NH | NH DRA 1-2 |  | 3,858 |  | 3,858 |  | 7,716 |
| 85 | State of NH | NH DRA 3-4 |  | 3,858 |  | 3,858 |  | 7,716 |
| 86 | Total |  | \$ | 5,897,896 | \$ | 6,227,020 | \$ | 12,124,916 |
| 87 | Pro Forma Property |  | \$ | 12,454,039 |  |  |  |  |
| 88 | Less Amount for Non | ility Property (adjustment to Pro Forma) |  | 3,514 |  |  |  |  |
| 89 | Less NH True-up Do | Count (adjustment to Pro Forma) |  | 230,708 |  |  |  |  |
| 90 | Property Tax expense | st Year |  | 12,404,863 |  |  |  |  |
| 91 | Less Education Tax R | oval (adjustment to book) |  | 16,976 |  |  |  |  |
| 92 | Increase (Decrease) | roperty tax expense | \$ | $(168,070)$ |  |  |  |  |

Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 8
Income Tax Expense - Historical Test Year

| Line | Description | Reference |  | Amount |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Test Year Actual to Statutory Rates |  |  |  |
| 2 ( |  |  |  |  |
| 3 | Normalized Revenue | RR-EN-2, line 6 | \$ | 93,501,690 |
| 4 | Normalized Expenses, Excluding Income Tax | RR-EN-2, lines 9-15 |  | 66,732,986 |
| 5 | Income (Loss) Before Taxes |  | \$ | 26,768,704 |
| 6 ( 6 cel |  |  |  |  |
| 7 | Rate Base | RR-1 | \$ | 346,131,311 |
| 8 | Debt Portion | RR-4 |  | 49.85\% |
| 9 | Debt Component |  |  | 172,546,459 |
| 10 | Debt Cost | RR-4 |  | 4.420\% |
| 11 | Synchronized Interest Expense |  |  | 7,626,553 |
| 12 | Pre-Tax Income |  | \$ | 19,142,151 |
| 13 |  |  |  |  |
| 14 | Combined Income Tax Rate | Line 20 |  | 27.08\% |
| 15 | Income Tax Expense (Credit) at Statutory Rates |  | \$ | 5,183,694 |
| 16 | Income Tax Expense (Credit) Recorded |  |  | 3,709,928 |
| 17 | Adjustment to Normalize Historical Test Year |  | \$ | 1,473,766 |
| 18 |  |  |  |  |
| 19 | Federal Statutory Rate |  |  | 21.00\% |
| 20 | New Hampshire Business Tax Rate |  |  | 7.70\% |
| 21 | Combined Income Tax Rate |  |  | 27.08\% |
| 22 |  |  |  |  |
| 23 | This adjustment normalizes income tax expense in statutory rates. | Test Year before ad |  | nts to reflect |

Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 9
Income Tax Expense - Pro Forma Test Year at Current Rates


This adjustment reflects income tax expense related to the Company's adjustments, computed at statutory rates.

Liberty Utilities (EnergyNorth)
Adjustments to Test Year
Adjustment 10
Other Adjustments


Liberty Utilities (EnergyNorth)
Weighted Average Cost of Capital
Test Year Ended December 31, 2019

| Line | Description | Capital <br> Structure | Cost of Capital | Weighted Cost of Capital | Tax <br> Rate | Pre-Tax |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Common Stock | 50.15\% | 10.51\% | 5.27\% | 27.08\% | 7.23\% |
| 2 | Long-Term Debt | 49.85\% | 4.420\% | 2.20\% |  | 2.20\% |
| 3 | Total | 100.00\% |  | 7.47\% |  | 9.43\% |

```
Liberty Utilities (EnergyNorth)
Rate Base - EnergyNorth
Balances at December 31, 2019
```

| Line | Description | Reference | Rate Base |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Utility Plant (Balance at 12/31/2019) | RR-EN-3-5 | \$ | 641,189,774 |
| 2 | Depreciation Allowance (Balance at 12/31/2019) | RR-EN-3-5 |  | (204,751,433) |
| 3 | Net Utility Plant |  | \$ | 436,438,341 |
| 4 |  |  |  |  |
| 5 | Materials and Supplies (Average of 5 Quarterly Balances) | RR-EN-5-1 | \$ | 5,936,060 |
| 6 | Customer Deposits (Average of 5 Quarterly Balances) | RR-EN-5-1 |  | (3,019,271) |
| 7 |  |  |  |  |
| 8 | Cash Working Capital | RR-EN-5-2 | \$ | 3,239,217 |
| 9 |  |  |  |  |
| 10 | Deferred Tax Liability, Net (Balance at 12/31/2019) | RR-EN-5-WP1 | \$ | $(58,607,821)$ |
| 11 |  |  |  |  |
| 12 | Excess Accumulated Deferred Income Taxes | RR-EN-5-WP1 | \$ | $(37,855,214)$ |
| 13 |  |  |  |  |
|  | Rate Base |  | \$ | 346,131,311 |

Liberty Utilities (EnergyNorth)
Rate Base Quarterly Balances - EnergyNorth
Test Year Ended December 31, 2019

| Line | Description | 2018 Q4 | 2019 Q1 | 2019 Q2 | 2019 Q3 | 2019 Q4 | 5 Quarter Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  |  |  |  |  |  |  |
| 2 | Materials and Supplies | \$ 5,281,934 | \$ 5,460,957 | 6,220,835 | 6,712,826 | 6,003,746 | \$ 5,936,060 |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 | Customer Deposits | \$(2,989,774) | \$ $(2,978,394)$ | \$ $(3,062,985)$ | $(3,000,070)$ | $(3,065,133)$ | \$ $3,019,271$ ) |

Liberty Utilities (EnergyNorth)
Cash Working Capital - EnergyNorth
Test Year Ended December 31, 2019

| Line | Description | Reference | Test Year Pro Forma |  |
| :---: | :---: | :---: | :---: | :---: |
| 1 | O\&M Expenses |  |  |  |
| 2 | Distribution, before Adjustments | RR-EN-2-1 | \$ | 70,442,914 |
| 3 | Less: Depreciation and Amortization | RR-EN-2-1 |  | (22,314,344) |
| 4 | Less: Deferred Income Taxes | RR-EN-2-1-WP |  | $(3,483,997)$ |
| 5 | Known and Measurable Adjustments (excluding depreciation and amortization) | RR-EN-2-1 |  | 1,301,764 |
| 6 |  |  | \$ | 45,946,337 |
| 7 |  |  |  |  |
| 8 | Cash Working Capital Required - Days | 25.72 |  | 7.05\% |
| 9 |  |  |  |  |
|  | Cash Working Capital Required |  | \$ | 3,239,217 |

# LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY DISTRIBUTION SERVICE RATE CASE 

## DOCKET NO. DG 20-105

## Staff's Responses to Liberty Utilities' First Set of Data Requests

Date Request Received: March 25, 2021
Data Request No.: LU 1-1

Date of Response: April 8, 2021
Witness: Donna H. Mullinax

## Request:

Reference the Direct Testimony of Donna H. Mullinax at Bates 000013, lines 4-13, regarding Staff's adjustment to material and supplies ("M\&S"). Please confirm that Witness Mullinax reviewed Energy North's M\&S quarterly balances for 2020. If so, please explain why the quarterly balances for 2020 were not addressed.

## Response:

The Company used a five-quarter average (M\&S balances for December 2018, March 2019, June 2019, September 2019, and December 2019) to calculate the $\$ 5.94$ million proposed to be included in rate base. On November 11, 2020, the Company's response to Staff 2-5 provided the monthly M\&S balances for the test year and each of the three preceding calendar years. Staff's analysis of this information found significant increases in the M\&S balances since the last base rate case. The 2018 balance increased by $\$ 4.9$ million, $35.8 \%$ over 2017. The 2019 balance increased by $\$ 6.0$ million, $25.3 \%$ over 2019.

In Staff TS 3-14, Staff asked the Company whether the "Company expects the reason(s) for the increase to continue such that the $M \& S$ balance in 2019 is expected during the rate effective period." The Company responded, "No. Pipeline replacement is leveling off and the Company expects to see some improvement in materials planning as a result of move towards an integrated system under SAP." The Company's response was provided on February 24, 2021, and did not state when the pipeline replacement was leveling off or when the Company expects to see "some improvement in materials planning as a result of move towards an integrated system under SAP." The response implied a future event (after February 2021). Thus, Staff disregarded the 2020 balances and did not review them.

Since the Company is anticipating the leveling off of pipeline replacement and improvements in material planning process, the amount included within the Company's requested M\&S balance should be adjusted to be reflective of the M\&S balance expected during the rate-effective period. Staff used the provided historical amounts to normalize the M\&S balance.

# Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty 

DG 20-105
Distribution Service Rate Case
Staff Technical Session Data Requests - Set 3

Date Request Received: 2/8/21
Request No. Staff TS 3-14

Date of Response: 2/24/21
Respondent: David Simek
Kenneth Sosnick

## REQUEST:

M\&S. Reference Staff 2-5. The response provided the monthly balances for M\&S items for the test year and each of the three preceding years. Staff's analysis shows the average total balances (for EnergyNorth and Keene) are as follows:

- 2016 - $\$ 3.3$ million
- $\quad 2017$ - $\$ 3.6$ million ( $7.8 \%$ increase over 2016)
- 2018 - $\$ 4.9$ million ( $35.8 \%$ increase over 2017)
- $\quad 2019$ - $\$ 6.0$ million ( $25.2 \%$ increase over 2018)
a. Please explain the significant increase from 2017 to 2018.
b. Please explain the significant increase from 2018 to 2019.
c. Does the Company expect the reason(s) for the increase to continue such that the M\&S balance in 2019 is expected during the rate effective period?


## RESPONSE:

a. During 2017, the Company was informed that one of the suppliers of regulators was moving to Mexico. The Company made additional purchases in order to avoid any potential delays in the delivery of meter sets and assemblies arising from the supplier's move. The Company also increased its inventories to accommodate for the expected increase in main replacement associated with the CIBS program.
b. During 2019, the Company added an additional contractor to provide sufficient resources to meet the increased pipeline replacement. To meet that requirement, the Company purchased additional materials to support the new contractor.
c. No. Pipeline replacement is leveling off and the Company expects to see some improvements in materials planning as a result of move towards an integrated system under SAP.

# LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY DISTRIBUTION SERVICE RATE CASE 

## DOCKET NO. DG 20-105

## Staff's Responses to Liberty Utilities' First Set of Data Requests

Date Request Received: March 25, 2021
Data Request No.: LU 1-2

Date of Response: April 8, 2021
Witness: Donna H. Mullinax

## Request:

Reference the Direct Testimony of Witness Mullinax, at Bates 000013 through 000014.
a. Please explain the use of year-end M\&S balances for a rate base recommendation rather than using a five-quarter average or 13-month average approach. Please explain whether Witness Mullinax typically use year-end balances for M\&S when making revenue requirement recommendations.
b. Given the typical construction season in EnergyNorth's service territory due to seasonal climate and ground conditions, please explain whether Staff would expect the M\&S balance to be higher or lower at the end of December than compared to the balances required during the construction season.

## Response:

a. The Company used a five-quarter average (M\&S balances for December 2018, March 2019, June 2019, September 2019, and December 2019) to calculate the $\$ 5.94$ million proposed to be included in rate base. Staff's analysis found significant increases in the M\&S balances since the last base rate case. The 2018 balance increased by $\$ 4.9$ million, $35.8 \%$ over 2017. The 2019 balance increased by $\$ 6.0$ million, $25.3 \%$ over 2019.

In Staff TS 3-14, Staff asked the Company whether the "Company expects the reason(s) for the increase to continue such that the M\&S balance in 2019 is expected during the rate effective period." The Company responded, "No. Pipeline replacement is leveling off and the Company expects to see some improvement in materials planning as a result of move towards an integrated system under SAP."

Based upon the Company's response, Staff determined that the Company's proposed five-quarter average $\mathrm{M} \& \mathrm{~S}$ balance of $\$ 5.94$ million would not be reflective of the $\mathrm{M} \& S$ balance expected during the rate-effective period and that an adjustment was appropriate.

In selecting the basis for an adjustment, Staff considered several approaches in determining the M\&S balance to be included in rate base. The 2020 M\&S balances were disregarded. The Company's response to Staff TS 3-14 (provided on February 24, 2021) stated that pipeline replacement is leveling off and that additional improvements were expected, and thus Staff assumed them to have not been realized yet. Staff considered using (1) the average of three-year end balances (December 2017, December 2018, and

December 2019); (2) the average of three 13-month averages; and (3) a 36-month average. The results of that analysis are shown below.

| Method | Amount |  | Difference from <br> Company <br> Proposed <br> Balance |  |
| :---: | :---: | :---: | :---: | :---: |
| 5-Quarter Average Used by Company | \$ | 5,936,060 |  |  |
| Average of 3 Year End Balances Recommended by Staff | \$ | 5,086,828 | \$ | $(849,231)$ |
| 3-13 Month Averages | \$ | 4,851,297 | \$ | $(1,084,762)$ |
| 36 Month Average | \$ | 4,908,650 | \$ | $(1,027,410)$ |

Staff selected the average of three-year end balances to develop a proxy for the M\&S balance during the rate effective period. Use of the other methods would have resulted in a larger adjustment.
b. Assuming good inventory control practices, Staff would expect M\&S balances to be higher during the construction season.

|  | Energy North | NH Gas Co |  |
| :---: | :---: | :---: | :---: |
| ASSETS |  |  |  |
| Reg_assets_non_cur Regulatory assets - non-current | 77,557,708 | 692,196 | 78,249,904 |
| Reg_assets_environmental Environmental costs | 48,163,464 | - |  |
| 10_1920_1863 KS R/A-Environmental-Materials | 27,075,097 | - | 27,075,097 |
| 10_1920_1864 KS R/A-Environmental-Purch Gas | 20,964,352 | - | 20,964,352 |
| 10_1930_1824 Environmental Response Fund | 124,016 | - | 124,016 |
| Reg_assets_pension Pension and post employment benefits | 21,625,753 | - |  |
| 10_1930_1826 Reg asset pension/OPEB tracker | 21,625,753 | - | 21,625,753 |
| Reg_assets_rate_case Rate case costs | 2,499,338 | - |  |
| 10_1930_1745 Rate Case Recovery | 486,876 | - | 486,876 |
| 10_1930_1823 Deferred Rate Case | 2,012,462 | - | 2,012,462 |
| Reg_assets_taxes Taxes | 1,157,159 | - |  |
| 10_1929_1863 Regulatory Assets - FAS 109 | 425,019 | - | 425,019 |
| 10_1930_2830 Accum Def Inc Taxes-Other Reg Asset | 732,140 | - | 732,140 |
| Reg_assets_other Other regulatory assets | 4,111,994 | 692,196 |  |
| 10_1920_1860 Misc Deferred Debits | 3,444,180 | 692,196 | 4,136,376 |
| 10_1930_1828 NEG \& KeySpan CTA | 667,813 | - | 667,813 |


| No. | Description | System Total |  | Delivery Costs |  | Direct Gas Costs |  | LPG \& LNG |  | Misc |  | Production Costs |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (A) | (B) |  | (C) |  | (D) |  | (E) |  | (F) |  | (G) |  |
|  | Rate Base |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Plant in Service | \$ | 641,189,774 | \$ | 631,599,724 | \$ | - | \$ | 9,590,051 | \$ | - | \$ | 9,590,051 |
| 2 | Accumulated Reserve |  | $(204,751,433)$ |  | $(200,951,293)$ |  | - |  | $(3,800,140)$ |  | - |  | (3,800,140) |
| 3 | Other Rate Base Items |  | (90,307,030) |  | $(89,340,674)$ |  | - |  | $(987,780)$ |  | 21,425 |  | $(966,355)$ |
| 4 | Total Rate Base | \$ | 346,131,311 | \$ | 341,307,756 | \$ | - | \$ | 4,802,130 | \$ | 21,425 | \$ | 4,823,555 |
|  | Revenues at Current Rates |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Sales Revenue | \$ | 93,643,178 | \$ | 91,649,591 | \$ | - | \$ | 1,980,418 | \$ | 13,170 | \$ | 1,993,587 |
| 6 | Miscellaneous Revenues |  | 1,207,376 |  | 1,206,507 |  | - |  | 800 |  | 69 |  | 869 |
| 7 | Total Revenues | \$ | 94,850,554 | \$ | 92,856,098 | \$ | - | \$ | 1,981,218 | \$ | 13,238 | \$ | 1,994,456 |
|  | Expenses at Current Rates |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Operations \& Maintenance Expenses | \$ | 29,706,094 | \$ | 27,196,266 | \$ | - | \$ | 2,225,393 | \$ | 284,435 | \$ | 2,509,828 |
| 9 | Depreciation Expense |  | 22,900,526 |  | 22,208,248 |  | - |  | 661,449 |  | 30,828 |  | 692,277 |
| 10 | Taxes Other Than Income Taxes |  | 14,193,436 |  | 13,841,955 |  | - |  | 351,481 |  | - |  | 351,481 |
|  | Interest on Customer Deposits |  |  |  | - |  | - |  | - |  | - |  | - |
| 11 | Total Expenses - Current | \$ | 66,800,055 | \$ | 63,246,469 | \$ | - | \$ | 3,238,323 | \$ | 315,264 | \$ | 3,553,587 |
| 12 | Total Income Taxes | \$ | 5,530,804 | \$ | 5,981,798 | \$ | - | \$ | $(369,077)$ | \$ | $(81,916)$ | \$ | $(450,993)$ |
| 13 | Current Operating Income | \$ | 22,519,695 | \$ | 23,627,832 | \$ | - | \$ | $(888,028)$ | \$ | $(220,109)$ | \$ | $(1,108,137)$ |
| 14 | Return at Current Rates |  | 6.51\% |  | 6.92\% |  | 000\% |  | -18.49\% |  | -1027.35\% |  | -22.97\% |
| 15 | Index Rate of Return |  | 1.00 |  | 1.06 |  | - |  | (2.84) |  | (157.91) |  | (3.53) |
|  | Revenue Requirement at Equal Rates of Return |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Required Return |  | 7.47\% |  | 7.47\% |  | 7.47\% |  | 7.47\% |  | 7.47\% |  | 7.47\% |
| 17 | Required Operating Income | \$ | 25,856,009 | \$ | 25,495,689 | \$ | - | \$ | 358,719 | \$ | 1,600 | \$ | 360,320 |
| 18 | Operating Income (Deficiency)/Surplus | \$ | $(3,336,314)$ | \$ | $(1,867,858)$ | \$ | - | \$ | $(1,246,747)$ | \$ | $(221,709)$ | \$ | $(1,468,456)$ |
|  | Expenses at Required Return |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | Operations \& Maintenance Expenses | \$ | 29,706,094 | \$ | 27,196,266 | \$ | - | \$ | 2,225,393 | \$ | 284,435 | \$ | 2,509,828 |
| 20 | Depreciation Expense |  | 22,900,526 |  | 22,208,248 |  | - |  | 661,449 |  | 30,828 |  | 692,277 |
| 21 | Taxes Other than Income |  | 14,193,436 |  | 13,841,955 |  | - |  | 351,481 |  | - |  | 351,481 |
| 22 | Interest on Customer Deposits |  | - |  | - |  | - |  | - |  | - |  | - |
| 23 | Total Expenses Required | \$ | 66,800,055 | \$ | 63,246,469 | \$ | - | \$ | 3,238,323 | \$ | 315,264 | \$ | 3,553,587 |
| 24 | Income Taxes | \$ | 6,769,798 | \$ | 6,675,456 | \$ | - | \$ | 93,922 | \$ | 419 | \$ | 94,341 |
| 25 | Total Revenue Requirement at Equal Return | \$ | 99,425,862 | \$ | 95,417,615 | \$ | - | \$ | 3,690,964 | \$ | 317,283 | \$ | 4,008,247 |
| 26 | Revenue (Deficiency)/Surplus | \$ | $(4,575,308)$ | \$ | $(2,561,517)$ | \$ | - | \$ | $(1,709,747)$ | \$ | $(304,045)$ | \$ | $(2,013,791)$ |










| Account Description | Functional Cost Study Account Detail |  |  |  |  |  |  |  |  |  |  |  | Docket No.DG20-105 <br> Attachment DBS/KAS-4-Rebuttal Page 10 of 17 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delivery Costs |  |  |  | Direct Gas Costs |  |  |  |  |  |  |  |
|  | Amount | Alloc. Factor | DEM | cus | com | Total | DEM |  | cus |  | com |  | TOTAL |  |
| Customer Account |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Supervision | 246,658 | caccix | - | 246,658 | - | 246,658 |  | - |  | - |  | - |  | - |
| Meter Reading | 327,602 | Cust | - | 327,602 | - | 327,602 |  | - |  | - |  | - |  | - |
| Customer Records \& Collection | 2,757,111 | cust | - | 2,757,111 | - | 2,757,111 |  | - |  | - |  | - |  | - |
| Uncollectable Accounts - Delivery | 1,613,012 | Prev_del | - | - | 1,613,012 | 1,613,012 |  | - |  | - |  | - |  | - |
| Uncollectable Accounts - Production | 67,758 | PREV_PROD | - | - | . |  |  | - |  | - |  | - |  | - |
| Misc. Customer Accounts | 13,047 | cust ${ }^{-}$ | . | 13,047 |  | 13,047 |  | - |  | - |  | - |  | - |
| Sub-total | 5,025,189 |  | - | 3,344,419 | 1,613,012 | 4,957,430 |  | - |  | - |  | - |  | - |
| Customer Service \& Information Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Informational and Instructional Advertisign Expenses | 81,733 | cust | - | ${ }^{81,733}$ | - | ${ }^{81,733}$ |  | - |  | $\cdot$ |  | $\cdot$ |  | - |
| Misc Customer Assistance Expense | 15,180 | cust | - | 15,180 | - | 15,180 |  | - |  | - |  | - |  | - |
| Sub-total | 96,913 |  | - | 96,913 | - | 96,913 |  | - |  | - |  | - |  | - |
| Sales Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Demostrating \& Selling Expenses | 455,606 | cust | - | 455,606 | - | 455,606 |  | - |  | - |  | - |  | $\cdot$ |
| Advertising Expenses |  | cust | - | 0 | - | 0 |  | - |  | - |  | - |  | - |
| Misc. Sales Expenses | 77,383 | cust | - | 77,383 | - | 77,383 |  | - |  | - |  | - |  | - |
| Sub-total | 532,989 |  | . | 532,989 | - | 532,989 |  | - |  | - |  | - |  | - |
| Administrative and General Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Administrative \& General Salaries | 5,432,241 | Labor | 2,823,156 | 2,149,385 | - | 4,972,541 |  | - |  | - |  | - |  | - |
| A\&G Salaries -Energy Procurement | 421,021 | GASSPLY |  |  | - |  |  | - |  | - |  | - |  | - |
| Office Supplies ${ }^{\text {Office }}$ Spplies. Energy Procurement | 2,029,906 | labor | 1,054,949 | 803,177 | - | 1,858,126 |  | - |  | - |  | - |  | - |
| Office Supplies - Energy Procurement A\&G Transfered | 168,393 $(16,140,423)$ |  | (7,840,061) | (5,968,963) | (497,026) | $(14,306,050)$ |  | $:$ |  | : |  | $:$ |  | $:$ |
| A\&G Transferred-Energy Procurement |  | GASSPLY |  |  |  |  |  | - |  | - |  | - |  | - |
| Outside Services | 6,917,962 | LABOR | 3,595,290 | 2,737,243 | - | 6,332,533 |  | - |  | - |  | - |  | - |
| Outside Serv. - Gas Acquistion | 216,091 | GASSPLY |  |  | - |  |  | - |  | - |  | - |  | - |
| Property Insurance | 51,523 | labor | 26,777 | 20,386 | - | 47, 163 |  | - |  | - |  | - |  | - |
| 1 Injuries \& Damages | 814,179 | ${ }_{\text {Labor }}$ | 423,132 | 322,148 | - | 745,280 |  | - |  | - |  | - |  | - |
| ${ }^{\text {Employee Pension } \& \text { Benefits }}$ | 7,255,399 | ${ }_{\text {Labor }}^{\text {Labor }}$ | 3,770,655 | 2,870,756 | 745711 | 6,641,411 |  | : |  | : |  | : |  | : |
| Regulatory Commission - Delivery Regulatory Commission - Production | 745,711 31,325 | Prev_DEL REG_COMM | : | : | 745,711. | 745,711 |  | : |  | : |  | $:$ |  | : |
| Misc. General Expenses | 1,146 | LABOR | 595 | 453 | - | 1,049 |  | - |  | - |  | - |  | - |
| Office Rent | 131,314 | Labor | 68,244 | 51,957 | - | 120,202 |  | - |  | - |  | - |  | - |
| Maintenance of General Plant |  | Labor |  |  | - |  |  | - |  | - |  | - |  | - |
| Sub-total | 8,075,783 |  | 3,922,737 | 2,986,542 | 248,685 | 7,157,963 |  | - |  | . |  | - |  | - |
| TOTAL 0 \& M EXPENSES | 29,706,094 |  | 15,684,514 | 9,650,056 | 1,861,696 | 27,196,266 |  | - |  | - |  | - |  | - |
| Labor Expense |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production - Operation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Superision | 958,071 | DPRoD | 83,352 | - | - | 83,352 |  | - |  | - |  | $\cdot$ |  | - |
| LPG - Production |  | DPROD |  | - | - |  |  | - |  | - |  | - |  | - |
| LPG - Materials |  | DPROD |  | - | - |  |  | $\cdot$ |  | - |  | $\cdot$ |  | $\cdot$ |
| Gas Mixin \& Misc Exp - Keene | 188,343 | DPROD | 16,386 | - | - | 16,386 |  | - |  | - |  | - |  | - |
| Misc. Prod. Exp. Operation Labor \& Expenses |  | DPROD DPROD |  | $:$ | : | : |  | $:$ |  | : |  | $:$ |  | $:$ |
| Sub-total | 1,146,680 |  | 99,761 | - | - | 99,761 |  | - |  | - |  | . |  | - |
| Production - Maintenance |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maint. of Prod. Equip |  | DPRod | - | - | - | - |  | - |  | - |  | - |  | - |
| Sub-total | - |  | - | - | - | - |  | - |  | - |  | - |  | - |
| Total Production | 1,146,680 |  | 99,761 | - | - | 99,761 |  | - |  | - |  | - |  | - |







| DEMAND ALLOCATORS |  |  |
| :---: | :---: | :---: |
| LPG_LNG | Production | DEM |
| Test Yr - Energy North |  |  |
| DIST | Distribution | DEM |
| Test Yr - Energy North |  |  |
| DPROD | Delivery \& Production | DEM |
| Test Yr - Energy North |  |  |
| DPROD_K | Keene Production | DEM |
|  | Test Yr - Energy North |  |

## CUSTOMER ALLOCATORS

| CUST | Distribution Customer | CUS |
| :--- | :--- | :--- |
|  | Test Yr - Energy North |  |

## COMMODITY ALLOCATORS

| PROPANE | Propane Commodity | COM |
| :---: | :---: | :---: |
| Test Yr - Energy North |  |  |
| LNG | LNG Commodity | COM |
| Test Yr - Energy North |  |  |
| GASCOST | Allocated Gas Costs | COM |
| Test Yr - Energy North |  |  |
| GASSPLY | Gas Supply | COM |
| Test Yr - Energy North |  |  |
| CUR_REV | Revenues at Current Rates | COM |
| Test Yr - Energy North |  |  |
| PROP_REV | Proposed Revenues | COM |
| Test Yr - Energy North |  |  |
| PREV_DEL | Proposed Revenues Delivery | COM |
| Test Yr - Energy North |  |  |
| PREV_PROD | Proposed Production Revenue | COM |
| Test Yr - Energy North |  |  |
| INDIRECT | Settlement Indirect Expenses | COM |
| Test Yr - Energy North |  |  |
| REG_COMM | Production Regulatory Comm. Exp | COM |
| Test Yr - Energy North |  |  |
| OTH_REV | Other Revenue | COM |

Total Delivery Costs Direct Gas Costs Production Costs Misc. Costs

| 1 | 0.00\% | 0.00\% | 100.00\% | 0.00\% |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 |  |
|  |  |  |  |  |
|  | 100.00\% | 0.00\% | 0.00\% | 0.00\% |
| 1 | 1 |  |  |  |
|  |  |  |  |  |
|  | 8.70\% | 0.00\% | 91.30\% | 0.00\% |
| 1 | 0.087 |  | 0.913 |  |
|  |  |  |  |  |
|  | 100.00\% | 0.00\% | 0.00\% | 0.00\% |
| 1 | 1 |  |  |  |


| $100.00 \%$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ |
| ---: | ---: | ---: | ---: |
| 1 |  |  |  |



| Allocator |  | Direct Gas |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| Name | Description | Total | Delivery Costs | Costs | Production Costs | Misc. Costs |
| PLANT | Total Plant in Service | 641,189,774 | 631,599,724 | - | 9,590,051 | - |
|  | Percent | 100.00\% | 98.50\% | 0.00\% | 1.50\% | 0.00\% |
| OMEXPX | TOI and O\&M Exp. excl. gas costs \& uncollectible | 42,192,640 | 39,422,936 | - | 2,490,632 | 279,072 |
|  | Percent | 100.00\% | 93.44\% | 0.00\% | 5.90\% | 0.66\% |
| PRODOEXP | Production Operations Expenses | 559,876 | 48,709 | - | 511,167 | - |
|  | Percent | 100.00\% | 8.70\% | 0.00\% | 91.30\% | 0.00\% |
| PRODMNTX | Production Maintenance Expenses | 119,531 | 10,399 | - | 109,132 | - |
|  | Percent | 100.00\% | 8.70\% | 0.00\% | 91.30\% | 0.00\% |
| DISTOPX | Distribution Operations Expense | 9,777,381 | 9,777,381 | - | ${ }^{-}$ |  |
|  | Percent | 100.00\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% |
| DISTMNX | Distribution Maintenance Expense | 3,987,825 | 3,987,825 | - | - | - |
|  | Percent | 100.00\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% |
| CACCTX | Customer Accounting Expenses | 3,097,761 | 3,097,761 | - | - | - |
|  | Percent | 100.00\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% |
| LABOR | Labor expense excluding A\&G | 12,371,345 | 11,324,425 | - | 1,046,919 | - |
|  | Percent | 100.00\% | 91.54\% | 0.00\% | 8.46\% | 0.00\% |
| GENPLT | General Plant | 39,736,540 | 36,373,854 | - | 3,362,686 | - |
|  | Percent | 100.00\% | 91.54\% | 0.00\% | 8.46\% | 0.00\% |
| AGxTRANSFER | A\&G Expenses excluding transfer | 24,216,206 | 21,464,013 | - | 1,915,363 | 836,830 |
|  | Percent | 100.00\% | 88.63\% | 0.00\% | 7.91\% | 3.46\% |
| AGEXP | Total A\&G Expense | 8,075,783 | 7,157,963 | ${ }^{-}$ | 638,748 | 279,072 |
|  | Percent | 100.00\% | 88.63\% | 0.00\% | 7.91\% | 3.46\% |
| DISTRPLT | Distribution Plant | 578,926,765 | 578,926,765 | - | - | - |
|  | Percent | 100.00\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% |
| RTBASE | Rate Base | 346,131,311 | 341,307,756 | - | 4,802,130 | 21,425 |
|  | Percent | 100.00\% | 98.61\% | 0.00\% | 1.39\% | 0.01\% |
| PDGPLT | Production, Distribution \& General Plant | 623,879,626 | 615,754,439 | - | 8,125,188 | - |
|  | Percent | 100.00\% | 98.70\% | 0.00\% | 1.30\% | 0.00\% |


[^0]:    ${ }^{1}$ Staff lists fifteen adjustments but in fact only makes fourteen adjustments.
    ${ }^{2}$ Source: Direct Testimony of Donna H. Mullinax dated March 18, 2021, Bates 000006.

[^1]:    ${ }^{3}$ Mullinax Direct Testimony, Bates 000014, lines 23 through 27.
    ${ }^{4}$ Staff did not submit TS 3-14 into the record or cite it directly in its testimony only identifying the source of the Company's response in data response LU 1-1; both responses are included in Attachment DBS/KAS-2-Rebuttal.
    5 "Leveling off" is generally defined as "to approach or reach a steady rate, volume or amount." See https://www merriam-webster.com/dictionary/level\%20off

[^2]:    ${ }^{6}$ Attached as Attachment DBS/KAS-2-Rebuttal, pages 3-4.
    ${ }^{7}$ Mullinax Direct Testimony, Bates 000015, lines 3-9.
    ${ }^{8}$ Mullinax Direct Testimony, Bates 000018, lines 18-22.
    ${ }^{9}$ Mullinax Direct Testimony, Bates 000019, line 7.

[^3]:    ${ }^{10}$ Mullinax Direct Testimony, Bates 000019, lines 12-14.
    ${ }^{11}$ Attached as Attachment DBS/KAS-3-Rebuttal.

[^4]:    ${ }^{12}$ Mullinax Direct Testimony Bates 00019, lines 8-14.
    ${ }^{13}$ Mullinax Direct Testimony Bates 000019, lines 8 and 9.

[^5]:    ${ }^{14}$ Mullinax Direct Testimony Bates 000027, lines 13-16.

[^6]:    ${ }^{15}$ Mullinax Direct Testimony Bates 000028, lines 10-18.
    ${ }^{16}$ Mullinax Direct Testimony Bates 000028, lines 20-23.

[^7]:    ${ }^{17}$ Frink Direct Testimony Bates 000037, line 20-Bates 00038, line 2
    ${ }^{18}$ Frink Direct Testimony Bates 000042, lines 12-16.

[^8]:    ${ }^{19}$ Mullinax Direct Testimony Bates 000042, lines 8-13.

[^9]:    ${ }^{20}$ Mullinax Direct Testimony Bates 000042, lines 16-19.

[^10]:    ${ }^{21}$ Attached as Attachment DBS/KAS-4-Rebuttal.

