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May 3, 2021

Debra Howland
Executive Director
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301-2429

RE: Docket No. DE 19-057
Public Service Company of New Hampshire d/b/a Eversource Energy
Notice of Intent to File Rate Schedules

Second Step Adjustment

Dear Director Howland:

Consistent with the terms of the settlement agreement filed contemporaneously with this filing, enclosed please find the testimony and supporting information of Public Service Company of New Hampshire d/b/a Eversource Energy pertaining to its second step adjustment in the above-captioned matter.

If you have any questions, please do not hesitate to contact me. Thank you for your assistance with this matter.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Matthew J. Fossum", written over a light blue horizontal line.

Matthew J. Fossum
Senior Regulatory Counsel

Enclosures
CC: Service List

STATE OF NEW HAMPSHIRE
before the
PUBLIC UTILITIES COMMISSION

Public Service Company of New Hampshire d/b/a Eversource Energy

DOCKET NO. DE 19-057

NOTICE OF INTENT TO FILE RATE SCHEDULES

Petition for Second Step Adjustment

Consistent with the terms of the October 9, 2020 Settlement Agreement (the “Settlement”) approved by the New Hampshire Public Utilities Commission (“Commission”) in Order No. 26,433 (December 15, 2020) in the instant docket, Public Service Company of New Hampshire d/b/a Eversource Energy (“Eversource” or the “Company”) hereby petitions for the Commission to approve its second step adjustment as called for in the Settlement Agreement effective for service rendered on and after August 1, 2021. In support of this Petition, Eversource states the following:

1. On March 22, 2019, Eversource filed with the Commission its Notice of Intent to File Rate Schedules and on May 28, 2019, the Company submitted its permanent rate filing. On October 9, 2020, the parties to the proceeding filed the Settlement with the Commission.

2. Pursuant to Section 10 of that Settlement Agreement, Eversource is allowed three step increases to account for plant placed in service in calendar years 2019, 2020, and 2021. This filing represents the second of those step increases and is intended to take effect with other rate adjustments on August 1, 2021.

3. Under the terms of the Settlement Agreement relating to this step, the Company was to include the following with its submission: (a) the amount of the investments to be included in the step increases (by project) and detailed project descriptions including the initial budget, the final

cost, and the date on which each project was booked to plant in service; and (b) project documentation including Project Authorization Forms, Supplemental Request Forms, and work order cost details. October 9, 2020 Settlement, Section 10.3. Further, the documentation was to follow the template for documentation agreed to with the Staff for the initial step. *Id.* Moreover, under the Settlement, if the actual costs for the relevant projects were less than the cap of \$18 million, the actual amounts are to be used to calculate the step adjustment amount. *Id.*

Included with this submission in response to the above are:

- Testimony and supporting information of Lee G. Lajoie, Manager of System Resiliency, David L. Plante, Manager of the New Hampshire Project Management Department, and James J. Devereaux, Manager of Budgets and Investment Planning, discussing the capital projects and the processes in place at the Company pertaining to project management and budgeting; and
- Testimony and supporting information of Erica L. Menard, Manager of New Hampshire Revenue Requirements, and Jennifer A. Ullram, Manager of Rates, describing the revenue requirement calculations, rate design and rate impacts from this step increase related to the relevant plant additions.

4. As described through the above-identified testimony, and the accompanying attachments and other information, this filing demonstrates relevant support for the additions to the Company's plant-in-service in calendar year 2020 consistent with the terms of the Settlement.

5. As described in the included testimony and attachments, the requested revenue requirement increase in this step is \$11,126,440 and is intended to be effective at the same time as other proposed rate adjustments on August 1, 2021 as called for in the Settlement.

6. The rate adjustments requested by the Company in this filing result in rates that are just and reasonable and in the public interest and should, therefore, be approved.


WHEREFORE, Eversource respectfully requests that the Commission:

- A. Grant the Company's request for a permanent rate increase of \$11,126,440 as described in the included testimony and supporting information; and
- B. Order such further relief as may be just and equitable.

Respectfully submitted,

Public Service Company of New Hampshire d/b/a Eversource Energy
By Its Attorney


Dated: May 3, 2021


By: _____
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CERTIFICATE OF SERVICE

I hereby certify that, on the date written below, I caused the attached to be served pursuant to N.H. Code Admin. Rule Puc 203.11.

May 3, 2021
Date



Matthew J. Fossum

Public Service Company of New Hampshire
d/b/a Eversource Energy
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Testimony of Lee G. Lajoie, David L. Plante and James J. Devereaux
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STATE OF NEW HAMPSHIRE
BEFORE THE
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DOCKET NO. DE 19-057
REQUEST FOR PERMANENT RATES

DIRECT TESTIMONY OF
LEE G. LAJOIE, DAVID L. PLANTE and JAMES J. DEVEREAUX

Step 2 Adjustment

On behalf of Public Service Company of New Hampshire
d/b/a Eversource Energy

May 3, 2021

Public Service Company of New Hampshire

d/b/a Eversource Energy

Docket No. DE 19-057

Testimony of Lee G. Lajoie, David L. Plante and James J. Devereaux

May 3, 2021

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STATE OF NEW HAMPSHIRE
BEFORE THE NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION
DIRECT TESTIMONY OF
LEE G. LAJOIE, DAVID L. PLANTE and JAMES J. DEVEREAUX
PETITION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
d/b/a EVERSOURCE ENERGY
REQUEST FOR PERMANENT RATES

Docket No. DE 19-057

I. INTRODUCTION

Q. Mr. Lajoie, please state your full name, position and business address.

A. My name is Lee G. Lajoie. I am employed by Eversource Energy Service Company as Manager of System Resiliency. My business address is 780 North Commercial Street, Manchester, New Hampshire.

Q. What are your principal responsibilities in this position?

A. As the Manager of System Resiliency, I provide services to Public Service Company of New Hampshire d/b/a Eversource Energy ("Eversource" or the "Company"). I am primarily responsible for the Company's capital budgeting process. In recent years, I have also had responsibility for the REP plan, which supported up to \$40 million of capital investment annually targeted at reliability projects. As the REP program matured and tapered off, I have taken on broader responsibility for the capital budgeting process. In addition, there are two internal groups that report to me, which are the reliability reporting group and the distribution automation group.

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1 **Q. Mr. Plante, please state your full name, position and business address.**

2 A. My name is David L. Plante. I am Manager of the New Hampshire Project Management
3 Department for Eversource Energy Service Company. My business address is 13 Legends
4 Drive, Hooksett, New Hampshire.

5 **Q. What are your principal responsibilities in this position?**

6 A. In this role, I am responsible for managing the Project Management Department as well as
7 the overall capital program for the transmission business in New Hampshire. I continue to
8 have direct project management responsibilities for a small number of large transmission
9 and distribution projects in New Hampshire.

10 **Q. Mr. Devereaux, please state your full name, position and business address.**

11 A. My name is James J. Devereaux. I am employed by Eversource Energy Service Company
12 as Manager of Budgets and Investment Planning. My business address is 780 North
13 Commercial Street, Manchester, New Hampshire.

14 **Q. What are your principal responsibilities in this position?**

15 A. As the Manager of Budgets and Investment Planning, I provide services to Eversource. I
16 am primarily responsible for the financial reporting, analysis and oversight of the
17 Company's capital and O&M programs. I also monitor capital projects throughout their
18 life cycle and provide reporting on a monthly basis to review costs and identify projects
19 that need supplemental funding authorization approvals.

20 **Q. Mr. Devereaux, have you previously testified before the Commission?**

21 A. No, I have not previously testified before the Commission.

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1 **Q. Mr. Devereaux, please summarize your educational background.**

2 A. I graduated from St. Michael's College with a Bachelor of Arts degree in Business
3 Administration in 1984 and from Bentley University with a Master of Business
4 Administration degree in 1992.

5 **Q. Mr. Devereaux, please summarize your professional experience.**

6 A. I have worked for the Company since 1985 primarily in the Gas Organization in
7 Massachusetts with various roles of increasing responsibility including Director of Gas
8 Service and Supply from 2002 to 2011. Since then, I have worked in Investment Planning
9 in Massachusetts until assuming my current position in 2019.

10 **Q. Did you all previously sponsor testimony in this docket that contains additional**
11 **information on your professional experience and educational backgrounds?**

12 A. Mr. Lajoie provided joint testimony with Company witness Joseph Purington as part of the
13 Company's initial request for permanent rates on May 28, 2019. Mr. Lajoie and Mr. Plante
14 provided joint rebuttal testimony with Company witness Erica L. Menard on March 4,
15 2020. Mr. Devereaux has not previously sponsored testimony in this docket, however his
16 professional experience and educational background are provided above.

17 **Q. What is the purpose of your testimony?**

18 A. The purpose of our testimony is to support the Company's request for a step adjustment to
19 distribution rates to be effective August 1, 2021, as provided in Section 10 of the Settlement
20 Agreement filed on October 9, 2020 in this docket. This is the second step adjustment
21 under the Settlement Agreement and pertains to certain projects placed in service during

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1 calendar year 2020. Our testimony will describe the capital projects and the processes in
2 place at the Company pertaining to project management and budgeting. In support of the
3 step adjustment, the Company is also filing joint testimony from Company witnesses Erica
4 L. Menard and Jennifer Ullram on the step adjustment revenue requirement and rate
5 impacts, respectively.

6 **Q. Are you presenting any attachments in support of your testimony?**

7 A. Yes, we are presenting Attachment LGL/DJP/JJD-1 containing the capital additions for
8 calendar year 2020 by project.

9 **Q. How is your testimony organized?**

10 A. Following this introduction, Section II discusses the Company's capital planning and
11 approval process and describes how the construction budget is developed and managed.
12 Section III describes the capital projects and costs included in the step adjustment and the
13 documentation being provided in support of those projects.

14 **II. CAPITAL PLANNING AND APPROVAL PROCESS**

15 **A. Authorization Procedures**

16 **Q. What is the Company's project authorization process?**

17 A. The Company evaluates all capital projects in accordance with a Project Authorization
18 Policy ("PAP"). In its initial request for permanent rates filed in Docket No. DE 19-057
19 on May 28, 2019 (the "Initial Filing"), Attachment ELM-5 provided the current version of
20 the PAP. The purpose of the PAP is to provide a framework to guide decision-making,
21 evaluation and approval of all capital and reimbursable project spending. Within this

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1 framework, the Company is able to identify key corporate spending initiatives; enable the
2 evaluation of all major projects; and prioritize the utilization of corporate financial
3 resources.

4 Capital projects subject to the PAP include, but are not limited to, electric operations, real
5 estate/facilities, customer care and information technology. The Company modified the
6 PAP in 2015 to adopt the common process for project authorization and funding across the
7 Eversource Energy organization. The Company primarily follows APS-1, a copy of which
8 was provided in Attachment ELM-5 to the Initial Filing and utilizes the PowerPlan®
9 system as the repository for project authorizations. Authorizations are approved in
10 accordance with the Delegation of Authority (“DOA”), a copy of which was provided in
11 Attachment ELM-6 to the Initial Filing. This process is based on Eversource Energy’s
12 enterprise-wide project-authorization process, which is centralized and standardized across
13 the organization. As an additional measure, the Company still conducts capital project
14 reviews through a committee to monitor spending against the overall capital budget.

15 **Q. What are the steps in the Company’s project authorization process?**

16 A. The Company’s project authorization process starts with a mid-year meeting of the
17 business planning group (the “Planning Group”). The Planning Group meets to review
18 potential capital spending over the upcoming five-year period and develop a strategic plan
19 (the “Strategic Plan”) for presentation to senior management for approval. Each operating
20 area presents its capital spending and resource requirements to the Planning Group for its
21 consideration. The specific capital spending requests made by the operating areas are input
22 into the five-year planning models and the results are compared to financial and

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1 performance targets. In addition, spending requests for annual projects and programs are
2 funded using historical spending levels. Together, the specific projects and the annual
3 projects and programs make up the body of work that the Company expects to execute over
4 the five-year period. The Planning Group uses this analysis to develop capital spending
5 levels that balance the Company's financial and performance targets. The Strategic Plan
6 is then presented to senior management for approval. Once approved, the Strategic Plan is
7 used as the foundation for the annual planning process.

8 During the annual planning process, projects are reviewed and modified as needed and
9 become the basis for the annual budget. Throughout the year, projects are presented at the
10 appropriate Project Approval Committee ("PAC") meeting for discussion and approval by
11 a quorum of committee members who review the technical merits of each specific project.
12 Once authorized by the PAC, the project is routed for financial approval in the financial
13 system (PowerPlan®) according to the DOA.

14 **Q. How are budgets developed for capital projects?**

15 A. Budgets for annual blanket projects and programs are typically based on historical
16 spending levels, adjusted for known changes for the next year. Specific projects are
17 identified by engineering and operations groups within the Company and are individually
18 reviewed by a group of Managers and Directors in New Hampshire. This group evaluates
19 the merits and need for each proposed project and develops a priority ranking. Projects
20 with the most significant benefits or that address the most significant needs are included in
21 the capital budget.

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1 **Q. How does the Company prioritize capital projects?**

2 A. From an overall perspective, the Company's objective is to arrive at a capital budget that
3 represents the optimal balance of executing investments necessary to maintain and improve
4 the performance of the system, while assuring a cost-efficient use of the Company's limited
5 resources. At the same time, Eversource must maintain a level of flexibility in the budget
6 process to deal with contingencies that inevitably occur during the year. On an annual
7 basis, the Company develops the capital plan by each operating area in collaboration with
8 the engineering and operations departments to identify specific needs in each area. A
9 variety of factors are considered during the prioritization process, including but not limited
10 to, aging infrastructure needs, system conditions, reliability improvements and initiatives,
11 new customer growth, and resource availability. The portfolio of projects is ultimately
12 evaluated by the Company's senior executives through an extensive budget-review process
13 conducted near the end of each year. Annual projects, service to new customers, and load
14 driven projects are considered necessary and included in the budget. Projects to improve
15 reliability are evaluated based on anticipated impact on performance. Aging asset projects
16 are prioritized based on a number of factors, including safety concerns, age of the asset,
17 difficulty in maintaining the asset or in obtaining spare parts, and other similar
18 considerations.

19 **B. Project Authorization Process**

20 **Q. Please describe the approval requirements for the Company's capital project**
21 **authorizations applicable to the proposed step adjustment.**

22 A. Commencing in 2015, projects proposed for inclusion in the capital budget by an operating
23 area require a request for project authorization to be submitted for approval to the senior

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1 manager of the relevant operating area in accordance with the PAP. The project sponsor,
2 typically a project originator or a project manager, is responsible for preparing the
3 necessary documentation for approval. As part of the annual budget process, each
4 operating area submits a budget encompassing the requests for project authorization
5 (although project authorizations may be granted throughout the year as circumstances
6 warrant). In addition, a budget for annual projects and annual programs is developed based
7 on historical costs associated with work on the distribution system. The proposed operating
8 area budget must conform to the overall budget amount set by the senior executives. In
9 addition, all capital projects are reviewed and approved by the Plant Accounting
10 department to ensure proper capital and expense classification, project justification and
11 unit of property accounting.

12 Projects are authorized by the Company's management in accordance with the Delegation
13 of Authority on the basis of a Project Authorization Form ("PAF"). A PAF is required
14 where a specific project estimate is expected to exceed the threshold outlined in the PAP.
15 A distribution project PAF includes the following sections:

- 16 • Executive Summary: This section provides a high-level overview of the project and why
17 it should be undertaken.
- 18 • Project Costs Summary: This section provides a breakdown of the project costs by category
19 such as construction labor, materials, project management costs, indirect costs, etc.

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- 1 • Technical Justification: This section provides a detailed narrative about the project
2 including a project need statement, objectives, scope, background/justification, business
3 process/technical improvements, alternatives considered, project schedule summary, a list
4 of anticipated risks, and any diagrams or images related to the project.

5 Because operating area budgets are prepared in advance for the next year, PAFs are
6 generally prepared and authorized on the basis of conceptual estimates. As described
7 below, the attachment accompanying our testimony listing the Eversource projects in the
8 step adjustment includes descriptions of projects where the initial authorization differed
9 from the pre-construction/post-design cost estimates.

10 **Q. At what point do projects receive formal approval in the construction budget?**

11 A. Prior to the start of the calendar year, the level of funding for the capital construction budget
12 is finalized and projects that have been proposed and approved by the Engineering,
13 Operations, and Shared Services groups are added to the budget. Once projects are ready
14 for construction with refined project cost estimates, projects are presented to the PAC. The
15 PAC meets at least monthly to review projects from an engineering, schedule, and cost
16 perspective as well as reviewing any projects that require supplemental funding. The PAC
17 consists of a chairperson plus representatives from various disciplines including
18 Engineering, Operations, Major Projects, Investment Planning, and Integrated Planning
19 and Scheduling. Once the PAC has approved a project for initial or supplemental funding,
20 the project is then approved within the PowerPlan® system based on DOA approval limits,
21 as shown in Attachment ELM-6 to the Initial Filing.

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1 **C. Cost Control Procedures**

2 **Q. Once the construction budget is finalized, does the Company have measures in place**
3 **to control costs as the projects are designed and completed?**

4 A. Yes. The Company's PAP has been established to allow for incremental project funding
5 authorizations based upon the developmental stage of the project which controls the
6 amount of capital that can be expended on a project until the project is fully defined and
7 most cost components have sufficient detail to secure quality estimates. From a project
8 execution perspective, Eversource has solicited competitive pricing from a variety of
9 qualified engineering, materials, construction and testing vendors forming the basis for
10 Master Services Agreements which ensure uniform and favorable terms and conditions.
11 Additionally, for medium to large materials or project services contracts, Eversource
12 solicits competitive bids to ensure that the most cost-effective contracts are awarded, to the
13 benefit of our projects. A rigorous contract change control process is in place to ensure
14 that prior to approval, contract changes potentially requested by our vendors are in fact
15 necessary for the proper development and execution of the project, clearly outside of the
16 existing contract scope, and have a fair and reasonable cost. Detailed project schedules
17 and outage plans are developed and utilized to ensure timely, predictable execution with
18 minimal delays.

19 **Q. Does the Company have measures in place to monitor project costs and revise project**
20 **funding authorizations in the event that costs increase as the projects are designed**
21 **and completed?**

22 A. Yes. Monthly meetings are held to discuss the status and cost of individual projects within
23 the capital budget. The Company's process requires a Supplement Request Form with

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revised cost and justification when it becomes likely that the project cost is expected to increase from the original authorized dollar amount in accordance with certain threshold criteria. For Distribution Operations projects up to \$250,000, this threshold is an increase in direct costs of \$25,000 or more. For projects over \$250,000 the threshold is 10 percent of direct costs. Supplement Request Forms are reviewed by the PAC and, if approved, routed for approval in PowerPlan® in the same manner as the original PAF.

III. STEP ADJUSTMENT CAPITAL PROJECTS

Q. What is the scope of projects for which the Company is seeking to commence cost recovery in this second step increase, as provided for in the Settlement Agreement?

A. The Company is seeking approval to commence cost recovery for the revenue requirement associated with \$124.2 million of plant additions placed in service in calendar year 2020 as described below.

Q. Please explain why the second step increase is significantly under the \$18 million cap contemplated in the Settlement Agreement.

A. Actual plant in service additions for the period ending 12/31/2020 was \$124.2 million which was lower than the amount in the five year plan that was the basis of the settled upon \$18 million cap. Plant additions in 2020 were lower due to delays in some larger substation and facilities projects being placed in service by the 12/31/2020 date.

Q. What is your understanding of the Commission's standard for inclusion of plant investment in rate base?

A. It is our understanding that the Commission's long-standing standard for the inclusion of capital additions in rate base is that the capital expenditures must be prudently incurred and the resulting plant must be "used and useful" in providing service to customers. A prudence

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1 review involves a determination of whether the utility's actions, based on all that the utility
2 knew or should have known at the time, were reasonable and prudent in light of the
3 circumstances. The Commission considers plant to be "used and useful" if the plant is in
4 service and provides benefits to customers. As demonstrated below and in the attachment
5 that accompanies our testimony, the Company's capital additions placed in service in
6 calendar year 2020 are consistent with the Commission's standard.

7 **Q. Please explain how the Company has categorized its plant additions for purposes of**
8 **the step adjustment.**

9 A. As an initial matter, the Company has segregated all capital additions into three distinct
10 categories for review purposes: (1) specific projects; (2) specific carryover projects; and
11 (3) annual blanket and program projects. Each category of capital additions has distinct
12 capital addition documentation requirements.

13 Specific projects are projects where a stand-alone project is being constructed. Examples
14 of these projects include new substations, new lines, and circuit conversions. Specific
15 projects have defined start and end dates for construction with a defined project cost and
16 may be managed by a project manager and have unique project names for the specific body
17 of work to be executed. For purposes of project review as part of the step increase, the
18 Company has segmented the specific projects into current and carryover categories.
19 Current specific projects are projects that were not reviewed as part of the rate case and
20 had a substantial portion of plant placed in service in 2020. Carryover projects are projects
21 that had a majority of the work orders placed in service prior to 2020 and therefore the
22 2020 plant additions are related to carryover work that continued into 2020 or where there

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1 are closeout adjustments made during the plant accounting closeout. In other words,
2 carryover project costs are for projects that were in service and included as part of the prior
3 rate case review in Docket No. DE 19-057 and the first step adjustment, but have charges
4 that have 'carried over' into 2020 that are now in service and being included in the
5 calculation of the step adjustment in this filing. Carrying charges may also be credits (or
6 reductions) to costs for adjustments that have been made in 2020.

7 Annual blanket projects are defined as projects that are high-volume and low dollar in
8 nature. An annual project funds a variety of activities intended to address a particular
9 issue. For example, an annual blanket project addressing the issue of voltage outside
10 regulatory limits may involve activities such as the placement of regulators or capacitors,
11 the replacement of conductors, or other activities. Work orders for annual projects are
12 typically under \$100,000 in direct costs. Examples of annual projects are new services,
13 capital tools, obsolescence and asset renewal, line relocations, and service work. These
14 projects are funded at a consistent level from year to year and utilize the same project
15 names each year.

16 Annual program projects support a particular body of work and are typically lower in
17 volume but higher in cost. An annual program funds the same type of work in many
18 different locations, such as reject pole replacements (the work associated with this program
19 is always pole replacements due to an inspection that finds the pole has decayed). Other
20 examples of annual programs include oil-circuit breaker replacements, direct-buried cable
21 replacements, vehicle purchases, and tools and equipment projects. These projects are

1 typically funded at a consistent level from year to year but can vary depending on the nature
2 of the work to be completed in the year. These projects also utilize the same project names
3 each year.

4 **Q. Please describe the documentation you are providing in support of the Company's**
5 **step adjustment.**

6 A. Attachment LGL/DLP/JJD-1 identifies the capital projects placed in service in calendar
7 year 2020 that are not currently in rate base. The attachment contains the following
8 information:

- 9 • Page 1 contains a summary of the 2020 plant additions by category.
- 10 • Pages 2-3 contain the list of projects identified as current specific projects. For
11 each project, the associated plant accounts(s), 2020 plant in service amount, pre-
12 construction authorization amount and any supplemental authorizations and project
13 life-to-date costs through December 31, 2020 are provided. Dollar and percentage
14 variances are calculated between the actual project life-to-date amount and initial
15 pre-construction authorized amount, the last supplemental authorized amount and
16 the pre-construction estimate amount, and the actual project life-to-date amount and
17 last supplemental authorized amount. Also provided is an indicator of whether the
18 project is considered final or still has expected charges in future years. An indicator
19 of "106" means that one or more work orders within that project are either in
20 Construction Work in Progress ("CWIP")/FERC Account 107 or Construction
21 Complete not Categorized ("CCNC")/FERC Account 106. Work orders in
22 Account 107 are not in service as of December 31, 2020 and are not part of this

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1 step increase. Work orders in Account 106 are in service as of December 31, 2020
2 and therefore are included in this step increase, but have not been through the
3 completion, closeout and unitization process for accounting purposes. Projects
4 with the 106 indicators can still accept charges. An indicator of “101” means that
5 all of the work orders within the project are in Plant in Service/FERC Account 101.
6 Work orders under projects with this status have gone through the completion
7 process from a project management perspective and plant accounting unitization
8 process and, in general, should not be incurring any additional charges and can be
9 considered final. A reason for the revised authorization is also included to identify
10 at a high level the reasons for needing supplemental funding to complete the
11 project.

- 12 • Page 4 contains the list of projects identified as annual blanket and program
13 projects. For each project, the associated plant accounts(s), 2020 plant in service
14 amount, annual authorization amount and any supplemental authorizations and
15 project life-to-date costs are provided. Dollar and percentage variances are
16 calculated between the actual annual amount and initial annual authorized amount,
17 the last supplemental authorized amount and the initial annual authorized amount,
18 and the actual annual cost and final supplemental authorized amount. Additions
19 included in 2020 can be for construction from the current year or carried over from
20 prior years.

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- Pages 5-6 contain the list of projects identified as carryover specific projects. For each project, the associated plant account(s), 2020 plant in service amount, current authorized amount and actual project life-to-date costs are provided. Dollar and percentage variances are calculated between the actual project life-to-date cost and current authorized amount. Also provided is an indicator of whether the project is final or still has expected charges in future years. An indicator of “106” means that one or more work orders within that project are in either CWIP/FERC Account 107 or CCNC/FERC Account 106. Work orders in Account 107 are not yet in service and are not part of this step increase. Work orders in Account 106 are in service and therefore are included in this step increase, but have not been through the completion, closeout and unitization process. Projects with the 106 indicator can still accept charges. An indicator of “101” means that all of the work orders within that project are in Plant in Service/FERC Account 101. Work orders under projects with this status have gone through the completion process from a project management perspective and plant accounting unitization process and, in general, should not be incurring any additional charges and can be considered final. A reason for any projects with plant in service greater than \$50,000 or having a variance between the actual project life-to-date cost and the current authorized amount of greater than 10 percent is also included.

After the Company’s initial filing of this step adjustment proposal, and upon the request of Staff, the Company shall provide further information related to a sampling of the Company’s projects, including but not limited to Project Authorization Forms,

Public Service Company of New Hampshire

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Supplemental Request Forms, and work order cost detail summarized at the project level by cost category over the life of the project.

Q. Please summarize the costs of the plant additions included in the step adjustment.

A. Table 1 below provides capital projects by category placed in service in 2020, excluding new business, and included in the step adjustment:

Table 1

Project Category	Plant Additions as of December 31, 2020
Specific Current Projects	\$70,630,376
Specific Carryover Projects	\$309,513
Annual Blanket and Program Projects	\$53,275,173
Total Plant Additions	\$124,215,062

Q. Is the level of documentation provided in this filing similar to the documentation provided previously in this docket for the Company's permanent rate request and first step adjustment request?

A. Yes. The scope of documentation is the same or similar to what was provided by the Company in support of its permanent rate request and first step adjustment. However, in the Settlement Agreement, the Company has agreed to a business process audit. As of the time this second step adjustment is being filed, the business process audit has not commenced, therefore the information being provided in this second step adjustment filing is consistent with the first step adjustment filing. The business process audit may recommend some changes to the way the Company creates and maintains project documentation. The

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1 Company will be working with the Staff, OCA, and the auditor on that review once it
2 commences and will be looking for ways to make its project documentation most useful for
3 regulatory review. The Company worked with Commission Staff to develop an interim
4 template as part of the first step adjustment to provide a format that allows for a productive
5 review of these historical projects. That format is maintained for this second step adjustment
6 filing.

7 **Q. Are all of the investments used and useful in providing service to customers?**

8 A. Yes, all of the investments placed in service in calendar year 2020 are used and useful in
9 the provision of service to Eversource customers.

10 **Q. Were all of the costs for these investments prudently incurred?**

11 A. Yes. As described earlier, the Company follows a comprehensive process for project
12 authorization and cost-control in developing and implementing its capital program.

13 **Q. Does this conclude your testimony?**

14 A. Yes, it does.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Summary of Projects Placed in Service in 2020, excluding New Business projects

Step 2 - Calendar Year 2020				
<u>Line</u>	<u>Category Description</u>	<u>Plant Additions</u>		<u>Reference</u>
	Col. A	Col. B		Col. C
1	Specific Projects	\$	70,630,376	Pages 2-3
2	Annual Blanket Projects and Programs		53,275,173	Pages 5-6
3	Specific Carryover Projects		309,513	Page 4
4	Total Plant Additions	<u>\$</u>	<u>124,215,062</u>	

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Specific Projects Placed in Service in 2020, excluding New Business projects
Comparison of Budget to Actual

Total Cost (direct and indirect, includes install and cost of removal)															As of 12/31/20		Reason for									
Line	Year	Plant Type	Project Type	Specific Project No.	Project Description	First in Service Event	Plant Account(s)	2020 Plant in Service	Pre-Construction Authorization	First Supplemental Authorization	Second Supplemental Authorization	Third Supplemental Authorization	Actual Project Life to Date Costs	Actual Final Cost to Pre-Construction Estimate Variance		Last Supplement to Pre-Construction Estimate Variance		Actual Final Cost to Final Supplement Variance		Plant Account 101 or 106	Revised Authorization Basis Col. U					
														Col. Q		Col. R		Col. S								
														Col. M	Col. N / Col. I	Col. O	Col. P	Col. Q	Col. R			Col. S				
1	2020	General	Specific	A1707	2019 PSNH Fac LOB proj under \$500k	2019	390,393	\$	340,721	\$	1,246,500		\$	1,233,781	\$	(12,719)	-1%	\$	(12,719)	-1%	106					
2	2020	Distrib/General	Specific	A2073	PSNH-D Fac 2020 LOB	2020	361,390,391,398	\$	810,513	\$	3,436,314		\$	1,303,865	\$	(2,132,449)	-62%	\$	(2,132,449)	-62%	106					
3	2020	General	Specific	A2075	PSNH-D ML 2020 LOB	2020	390,392,393	\$	259,126	\$	328,980		\$	315,447	\$	(13,533)	-4%	\$	(13,533)	-4%	106					
4	2020	General	Specific	A2079	Berlin NH Yard Paving	2020	390	\$	14,455				\$	298,408							101					
5	2020	General	Specific	A2076	Front Office Life Safety Upgrade	2020	390	\$	311,736				\$	311,736							106					
6	2020	Distribution	Specific	A08W49	KEENE DOWNTOWN UG REPLACEMENT PROJ	2009	364,365,366,367,368,369	\$	889,029	\$	4,712,000		\$	4,557,944	\$	(154,056)	-3%	\$	(154,056)	-3%	106					
7	2020	Distribution	Specific	A16M01	11W1 - Replace Submarine Cable	2020	364,365,367	\$	1,575,238	\$	360,000	\$	1,917,000	\$	1,883,889	\$	1,523,889	423%	\$	1,557,000	433%	-2%	106			
8	2020	Distribution	Specific	A16M02	Second transformer at Lost Nation S	2019	362	\$	331,271	\$	3,912,000	\$	4,558,049	\$	5,799,553	\$	2,067,553	53%	\$	1,847,118	47%	\$	220,435			
9	2020	Distribution	Specific	A17C21	PINE HILL SS PLC AUTO SCH REPLACE	2019	362	\$	320,748	\$	1,765,000	\$	2,000,000	\$	2,023,500	\$	238,500	13%	\$	235,000	13%	\$	23,500			
																					Engineering quality issues with vendor Testing costs not available prior to FF and were higher than estimated Supplement request covered the additional costs for engineering. The scope of work was increased to include the design of line taps, automated switches. This increased materials about 20% of what was originally approved. Surveying and right-of-way (ROW) monumentation costs increased due to the complexity of the ROW easements. Archaeological study work was not included in the original estimate. Landscaping and community outreach services were higher than estimated as well. Stakeholder negotiations were needed to fulfill agreements for gates and landscaping.					
10	2020	Distribution	Specific	A17C26	328 LINE RECONDUCTOR	2019	364,365,368	\$	240,502	\$	4,263,997	\$	4,737,122	\$	4,832,439	\$	568,442	13%	\$	473,125	11%	\$	95,317	2%	106	
																					Direct variance 2%, no supplement needed Directs within 10%. Supplement request #1 was mostly due to bids for construction, test and commissioning being higher than originally estimated. Also, there were incorrect assumptions regarding asset ownership (T vs. D) in the original estimate which were addressed in the supplement. Transmission had more funds allocated for construction, materials, test and commissioning than distribution, which should not have been the case. Supplement request #2 was mostly due to changes and revisions that took place after the project was under construction including cabinet relocations (design conflict/issue), transformer CTs and junction boxes (design conflict/issue), HVAC installation, ground grid (excessive ledge encountered), battery charger installation, HMI and security installations. Direct variance 7%, no supplement needed Direct variance (2%), supplement not needed Direct variance 8% so additional supplement not needed. Increased direct costs driving the supplemental funding are due to higher than estimated costs for testing & commissioning services. Engineering, Materials, Testing and Internal Station Ops labor were significantly higher than estimated. Safety concerns identified early in the engineering process drove an expansion of the control house which added significant project cost. Direct variance (3%), supplement not needed Work delayed until 2020 due to design delay to project Direct variance (1%), supplement not needed					
11	2020	Distribution	Specific	A17E01	RYE AREA 4KV STUDY	2019	371	\$	1,932,287	\$	1,859,000	\$	4,672,000	\$	4,376,539	\$	2,517,539	135%	\$	2,813,000	151%	\$	(295,461)	-6%	106	
12	2020	Distribution	Specific	A17E05	TWOIMBLEY SS REBUILD	2018	362,364,365	\$	5,612,034	\$	6,296,000		\$	5,967,934	\$	(328,066)	-5%	\$	(328,066)	-5%	\$				106	
13	2020	Distribution	Specific	A17E09	ROCHESTER 4KV CONVERSION	2018	364,365,366,367,369	\$	944,754	\$	5,334,000		\$	4,409,350	\$	(424,650)	-8%	\$	(424,650)	-8%	\$				106	
14	2020	Distribution	Specific	A17E18	LACONIA SS EQUIPMENT REPLACEMENT	2020	362	\$	3,922,199	\$	3,550,000		\$	4,382,357	\$	832,357	23%	\$			\$	832,357		23%	106	
																					Project is still in construction. Full ISD in 2021. Direct variance 2%, no supplement needed Directs within 10%. Supplement request #1 was mostly due to bids for construction, test and commissioning being higher than originally estimated. Also, there were incorrect assumptions regarding asset ownership (T vs. D) in the original estimate which were addressed in the supplement. Transmission had more funds allocated for construction, materials, test and commissioning than distribution, which should not have been the case. Supplement request #2 was mostly due to changes and revisions that took place after the project was under construction including cabinet relocations (design conflict/issue), transformer CTs and junction boxes (design conflict/issue), HVAC installation, ground grid (excessive ledge encountered), battery charger installation, HMI and security installations. Direct variance 7%, no supplement needed Direct variance (2%), supplement not needed Direct variance 8% so additional supplement not needed. Increased direct costs driving the supplemental funding are due to higher than estimated costs for testing & commissioning services. Engineering, Materials, Testing and Internal Station Ops labor were significantly higher than estimated. Safety concerns identified early in the engineering process drove an expansion of the control house which added significant project cost. Direct variance (3%), supplement not needed Work delayed until 2020 due to design delay to project Direct variance (1%), supplement not needed					
15	2020	Distribution	Specific	A17W19	NORTH RD SS EQUIPMENT REPLACEMENT	2019	362	\$	103,180	\$	836,000	\$	1,758,489	\$	2,387,758	\$	1,551,758	186%	\$	1,266,000	151%	\$	285,758	14%	106	
16	2020	Distribution	Specific	A18C02	BEDFORD SS PLC AUTOMATION SCHEME	2020	362	\$	3,030,060	\$	2,888,000		\$	3,077,402	\$	189,402	7%	\$			\$	189,402		7%	106	
17	2020	Distribution	Specific	A18D0A	DISTRIBUTION AUTOMATION - POLE TOP	2018	364,365,368,369	\$	1,006,514	\$	17,500,000		\$	19,179,294	\$	1,879,294	11%	\$			\$	1,879,294		11%	106	
18	2020	Distribution	Specific	A18E09	REPLACE 38S RELAY AT ROCHESTER SS	2020	362	\$	491,845	\$	235,200	\$	386,000		\$	524,865	\$	289,665	123%	\$	150,800	64%	\$	138,865	36%	101
19	2020	Distribution	Specific	A18M05	Penn SS Upgrade	2020	362	\$	6,538,622	\$	4,063,000	\$	6,817,000	\$	7,729,000											106
20	2020	Distribution	Specific	A18W11	316K1 CIRCUIT TIE EASTMAN DEVELOPME	2018	364,365,366,367,369	\$	420,118	\$	1,091,000		\$	7,514,634	\$	3,451,634	85%	\$	2,754,000	68%	\$	(214,366)	-3%	106		
21	2020	Distribution	Specific	A18W17	EMERALD ST LINE WORK	2020	364,365,367	\$	71,118	\$	785,000		\$	1,207,724	\$	116,724	11%	\$			\$	116,724		11%	101	
22	2020	Distribution	Specific	A18W22	Peterborough Roadway and Bridge Pro	2019	364,365,366,367,369	\$	105,074	\$	364,000		\$	334,021	\$	170,021	47%	\$			\$	(450,946)		-57%	106	
23	2020	General	Specific	A18X28	44 & 60 WEST PENN TELECOM	2020	397	\$	142,625	\$	498,800		\$	456,214	\$	(42,586)	-9%	\$			\$	(42,586)		-9%	106	
24	2020	Distribution	Specific	A19C54	Pettinell Switchgear Reconfigurat	2020	367	\$	326,290	\$	228,000	\$	329,000		\$	328,393	\$	100,393	44%	\$	101,000	44%	\$	(607)	0%	101
25	2020	Distrib/General	Specific	A19D0A	Distribution Automation - Pole Top	2019	362,364,365,366,367,369, 371,373,397	\$	6,858,527	\$	16,743,000		\$	17,735,989	\$	992,989	6%	\$			\$	992,989				106
																					Direct cost increase due to required contractor remobilization as a hold had been placed on planned customer outages in response to the COVID-19 pandemic, and increased number of customers working from home. Could not complete cutover until ban was lifted. Direct cost variance under 10%. After contractor bids were received, project changed from original funding under annual budget to a capital project due to cost exceeding \$100,000 "annual project" budget limit Direct variance 4%, supplement not needed Direct variance 5%, supplement not needed Direct variance 5%, supplement not needed					
26	2020	Distribution	Specific	A19E11	Circuit Ties Wakefield 362 to 3157	2019	364,365,367,369	\$	1,339,525	\$	2,700,000		\$	2,883,375	\$	183,375	7%	\$			\$	183,375		7%	106	
27	2020	Distribution	Specific	A19E41	REPLACE LTC CONTROLS AT MADBURY SS	2020	362	\$	463,324	\$	464,000		\$	492,512	\$	28,512	6%	\$			\$	28,512		6%	101	
28	2020	Distribution	Specific	A19E63	JACKSON HILL SS FNCE & GRDNG REPLAC	2020	361,362	\$	278,815	\$	257,000		\$	291,796	\$	34,796	14%	\$			\$	34,796		14%	101	
29	2020	Distribution	Specific	A19E15	Distribution Automation - Line Sens	2019	365	\$	56,206	\$	180,000		\$	128,277	\$	(51,723)	-29%	\$			\$	(51,723)		-29%	106	
30	2020	Distribution	Specific	A19M12	Circuit Ties - Laconia 310 to 345	2020	364,365,366,367,368,369	\$	2,611,085	\$	3,000,000		\$	2,723,127	\$	(276,873)	-9%	\$			\$	(276,873)		-9%	106	
31	2020	Distribution	Specific	A19S06	Replace Conductor Route 13 Amherst	2020	364,365,367	\$	1,604,671	\$	893,000	\$	1,413,000		\$	1,874,406	\$	981,406	110%	\$	520,000	58%	\$	461,406	33%	106
32	2020	Distribution	Specific	A19W03	Repl open wire w/ Spacer cable Rt 63	2019	364,365,366,367,368,369	\$	1,267,586	\$	1,000,000	\$	1,668,000		\$	1,660,099	\$	660,099	66%	\$	668,000	67%	\$	(7,901)	0%	106
33	2020	Distribution	Specific	A19W56	317 Line Reconstruction	2020	365	\$	969,489	\$	1,600,000		\$	1,406,014	\$	(193,986)	-12%	\$			\$	(193,986)		-12%	101	
34	2020	Distribution	Specific	A19X222	ANIMAL PROTECTION AT AMHERST SS	2020	362	\$	97,080	\$	144,000		\$	97,080	\$	(46,920)	-33%	\$			\$	(46,920)		-33%	106	
35	2020	Distribution	Specific	A19X82	NH LATERAL INITIATIVE	2019	365	\$	423,000	\$	5,000,000		\$	5,705,410	\$	705,410	14%	\$			\$	705,410		14%	106	
36	2020	Distribution	Specific	A19X51	LONG HILL SS 34.5KV CAP BANK SWITCH	2020	362	\$	824,754	\$	756,000		\$	849,646	\$	93,646	12%	\$			\$	93,646		12%	106	
37	2020	Distribution	Specific	A19X3601	REEDS FERRY SS OCB REPLACEMENT	2020	362,364,365	\$	2,513,032	\$	2,239,520		\$	2,605,529	\$	366,529	16%	\$			\$	366,529		16%	106	
38	2020	Distribution	Specific	A19X58	REPLACE LATICE STEEL TOWERS	2020	364,365	\$	3,094,789	\$	1,510,000	\$	4,210,000		\$	3,553,349	\$	2,043,349	135%	\$	2,700,000	179%	\$	(656,660)	-16%	101
39	2020	Distribution	Specific	A20D0A	DISTRIBUTION AUTOMATION POLE TOP	2020	364,365,367,369	\$	9,057,258	\$	12,000,000		\$	10,345,559	\$	(1,654,441)	-14%	\$			\$	(1,654,441)		-14%	106	
40	2020	Distribution	Specific	A20D125	OH/OLED ENVIAT E. NORTHWOOD	2020	364,365,366,367,368,369	\$	384,294	\$	307,000	\$	371,000		\$	412,001	\$	205,001	99%	\$	164,000	79%	\$	(41,001)	-11%	106
41	2020	Distribution	Specific	A20E43	East Northwood SS Regulator Replace	2020	362	\$	175,662	\$	313,000		\$	181,256	\$	(131,744)	-42%	\$			\$	(131,744)		-42%	106	
42	2020	Distribution	Specific	A20L5	DISTRIBUTION AUTOMATION LINE SENSOR	2020	365	\$	138,958	\$	180,000		\$	185,203	\$	5,203	3%	\$			\$	5,203		3%	106	
43	2020	Distribution	Specific	A20M29	LACONIA COMCAST NON-BILLABLE 2020	2020	364,365,366,367,369	\$	208,790	\$	550,000		\$	279,260	\$	(270,740)	-49%	\$			\$	(270,740)		-49%	106	
44	2020	Distribution	Specific	A20M30	LACONIA COMCAST BILLABLE 2020	2020	364,365,366,367,369	\$	11,730	\$	-		\$	(106,530)	\$	(106,530)		\$			\$	(106,530)			106	
45	2020	Distribution	Specific	A20M31	GILFORD COMCAST NON-BILLABLE 2020	2020	364,365,366,367,369	\$	251,233	\$	660,000		\$	306,087	\$	(353,913)	-54%	\$			\$	(353,913)		-54%	106	
46	2020	Distribution	Specific	A20M32	GILFORD COMCAST BILLABLE 2020	2020	364,365,366,367,369	\$	(42,857)	\$	-		\$	(216,471)	\$	(216,471)		\$			\$	(216,471)			106	
47	2020	Distribution	Specific	A20S06	3159X Extend 3 Phase Boston Post Rd	2020	365,366,369	\$	315,294	\$	195,000	\$	313,000		\$	334,048	\$	139,048	71%	\$	118,000	61%	\$	21,048	7%	106
48	2020	Distribution	Specific	A20S17	DB CBL REPLACE MAPLE HILL ACHRA	2020	364,365,366,367,369	\$	1,046,013	\$	1,287,000		\$	1,066,614	\$	(220,386)	-17%	\$			\$	(220,386)		-17%	106	
49	2020	Distribution	Specific	A20S22	RANGE RD WINDHAM CONVERSION	2020	364,365,368	\$	342,209	\$	161,000	\$	389,000		\$	405,629	\$	2440								

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Specific Projects Placed in Service in 2020, excluding New Business Projects
Comparison of Budget to Actual

Total Cost (direct and indirect, includes install and cost of removal)																						
Line	Year Col. A	Plant Type Col. B	Project Type Col. C	Specific Project No. Col. D	Project Description Col. E	First in Service Event Col. F	Plant Account(s) Col. G	2020 Plant in Service Col. H	Pre-Construction Authorization Col. I	First Supplemental Authorization Col. J	Second Supplemental Authorization Col. K	Third Supplemental Authorization Col. L	Actual Project Life to Date Costs Col. M	Actual Final Cost to Pre-Construction Estimate Variance		Last Supplement to Pre-Construction Estimate Variance		Actual Final Cost to Final Supplement Variance		As of 12/31/20 Plant Account 101 or 106 Col. T	Reason for Revised Authorization Basis Col. U	
														Q1 Col. N	% Col. O	Q1 Col. P	% Col. Q	Q1 Col. R	% Col. S			
														Col. M - Col. I	Col. N / Col. I	Col. (I, K or L) - Col. I	Col. P / Col. I	Col. M - Col. (I, K or L)	Col. R / Col. (I, K or L)			
51	2020	Distribution	Specific	A20W13	3410 and 315 Circuit Tie	2020	364,365,369	\$ 141,306	\$ 1,350,000	\$ 1,800,000			\$ 1,409,280	\$ 59,280	4%	\$ 450,000	33%	\$ (390,720)	-22%	106		
52	2020	Distribution	Specific	A20W14	2411 and 313X1 Circuit Tie	2020	364,365,366,367,368,369	\$ 1,870,079	\$ 2,800,000				\$ 2,185,970	\$ (614,030)	-22%			\$ (614,030)	-22%	106		
53	2020	Distribution	Specific	A20W35	SPRING STREET SS UPGRADES	2020	362	\$ 1,157,980	\$ 1,230,000				\$ 1,292,013	\$ 62,013	5%			\$ 62,013	5%	106	Completed in Nov 2020. Within 10% on direct costs	
54	2020	Distribution	Specific	A20X38	2020 CIRCUIT PATROL REPAIRS	2020	364,365,369	\$ 520,248	\$ 2,195,000				\$ 1,025,818	\$ (1,169,182)	-53%			\$ (1,169,182)	-53%	106		
55	2020	General	Specific	IASC2003	PSNH Emerging Capital Security 2020	2020	390	\$ 75,254					\$ 79,211							106		
56	2020	Distribution	Specific	NHMPR20	NH Annual Meter Project for 2020	2020	370	\$ 1,975,120	\$ 2,950,892				\$ 1,975,120	\$ (975,772)	-33%			\$ (975,772)	-33%	106		
57	2020	Distribution	Specific	R1BCTC01	W185 - 4W1 CIRCUIT TIE	2018	364,365	\$ 245,078	\$ 1,340,000	\$ 1,360,000			\$ 1,362,060	\$ 122,060	10%	\$ 120,000	10%	\$ 2,060	0%	106		
58	2020 Total							\$ 70,630,376														

Definitions:
Col. A: Plant in Service Year
Col. B: Plant Type (Distribution/General Plant)
Col. C: Specific project, Annual program/blanket project or Specific carryover project with trailing charges
Col. D: Internal Company project identifier
Col. E: Description of project work
Col. F: Year when first work order was placed in service for project
Col. G: Plant account(s) for work orders contained within project
Col. H: Amount of plant additions placed in service for the plant year identified in Col. A.
Col. I: Fully funded Pre-construction authorization used to begin construction on project for projects that meet the criteria for needed an authorization based on Company policy
Col. J: First supplemental funding project authorization (direct, indirect, including cost of removal) (or N/A for none applicable) based on Company policy
Col. K: Second supplemental funding project authorization (direct, indirect, including cost of removal) (or N/A for none applicable) based on Company policy
Col. L: Third supplemental funding project authorization (direct, indirect, including cost of removal) (or N/A for none applicable) based on Company policy
Col. M: Actual Project Costs (direct and indirect, including cost of removal) through the year identified in Col. A.
Col. N: Variance (\$) between total actual costs as compared to authorized amount identified in Col. I.
Col. O: Variance (%) between total actual costs as compared to authorized amount identified in Col. I.
Col. P: Variance (\$) between last supplement as compared to pre-construction authorized amount identified in Col. I.
Col. Q: Variance (%) between last supplement as compared to pre-construction authorized amount identified in Col. I.
Col. R: Variance (\$) between total actual costs as compared to final authorized amount.
Col. S: Variance (%) between total actual costs as compared to final authorized amount.
Col. T: Indicates whether one or more work orders are in FERC Account 106 (Completed Construction not Classified (CCNC)) and can still accept charges or FERC Account 101 (Completed and Unitized by Plant Accounting, work orders are closed out and will not allow charges.)
Col. U: Reason for variance for projects with plant in service greater than \$50,000 or have a variance of greater than 10%
N/A indicates that the estimated project cost is below the threshold for needing a formal project authorization per Eversource Corporate policy.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Annual Programs and Annual Projects Placed in Service in 2020, excluding New Business projects
Comparison of Budget to Actual

													Total Cost (direct and indirect, includes install and cost of removal)												
Line	Year Col. A	Plant Type Col. B	Project Type Col. C	Specific Project No. Col. D	Project Description Col. E	Plant Account(s) Col. F	2020 Plant in Service Col. G	Annual Authorization Col. H	First Supplemental Authorization Col. I	Second Supplemental Authorization Col. J	Calendar Year 2020 Year to Date Costs Col. K	Actual Annual Annual Estimate		Cost to Variance		Last Supplement Annual Estimate		To Variance		Actual Annual Final Supplement		Cost to Variance		Comment	
												(\$) Col. K - Col. H	%	(\$) Col. L - Col. H	%	(\$) Col. P - Col. I (or J)	%	(\$) Col. Q - Col. H (or J)	%						
1	2020	Distribution	Annual Program	6DCPI	NH Aviglion Intrusion Detection	362	\$	44,349		N/A		\$	44,349												
2	2020	Distribution	Annual Program	A07X45	REJECT POLE REPLACEMENT	364,365,366,367,368						\$	1,602,220	\$	(738,780)	-32%					\$	(738,780)	-32%		
3	2020	Distribution	Annual Program	A07X98	NESC CAPITAL REPAIRS	364,365,368,369		12,070		N/A		\$	(24,694)		N/A		N/A		N/A				N/A		
4	2020	Distribution	Annual Program	A09512	REPLACED FAILED CABLE - POST TESTED	364,365,366,367		331,197		N/A		\$	114,289		N/A		N/A		N/A				N/A		
5	2020	Distribution	Annual Program	A10X04	DIRECT BURIED CABLE INJECTION	365,366,367		123		N/A		\$	(1,177)		N/A		N/A		N/A				N/A		
6	2020	Distribution	Annual Program	A12X01	SUBSTATION BATTERY REPLACEMENT	362		(76)		N/A		\$	-		N/A		N/A		N/A				N/A		
7	2020	Distribution	Annual Program	A12X02	SUBSTATION GROUND GRID UPGRADES	361,362		(6,010)		N/A		\$	1,890		N/A		N/A		N/A				N/A		
8	2020	Distribution	Annual Program	C01PCB	PCB TRANSFORMER CHANGEOUT PROGRAM	364,365,369		83,388		150,000		\$	89,821		(60,179)	-40%					\$	(60,179)	-40%		
9	2020	Distribution	Annual Program	C01SPA01	JOINT POLES PURCHASE & SALE	364		66,404		151,000		\$	232,661		81,661	54%	\$	133,000	88%	\$	(51,339)	-18%			
10	2020	Distribution	Annual Program	C03CTV	CABLE TV PROJECTS ANNUAL	369		246,406		510,000		\$	267,199		(242,801)	-48%	\$	(122,000)	-24%	\$	(120,801)	-31%			
11	2020	Distribution	Annual Program	C03DOT	NHDOT PROJECT PROGRAM	371,373		1,484,766		2,040,000		\$	1,411,586		(628,414)	-31%					\$	(628,414)	-31%		
12	2020	Distribution	Annual Program	C03TEL	TELEPHONE PROJECTS ANNUAL	364,365,366,367,369		512,780		200,000		\$	605,038		405,038	203%	\$	441,000	221%	\$	(35,962)	-6%			
13	2020	Distribution	Annual Program	DG9R	DG FIELD DESIGN & CONSTR-REIMBURSE	369		182,104		616,000		\$	274,788		(341,212)	-55%					\$	(341,212)	-55%		
14	2020	Distribution	Annual Program	DL9R	DIST LINE ROW PROGRAM	364,365,366		1,844,115		4,990,000		\$	3,298,540		(1,691,460)	-34%					\$	(1,691,460)	-34%		
15	2020	Distribution/General	Annual Program	D59RD	DIST. S/S ANNUAL - DM	362,390,394		979,909		750,000		\$	967,158		217,158	29%	\$	200,000	27%	\$	17,158	2%			
16	2020	Distribution	Annual Program	D59RE	ROW REPLACE FAILED EQUIPMENT-ANNUAL	364,365		257,405		1,092,000		\$	562,288		(529,712)	-49%					\$	(529,712)	-49%		
17	2020	Distribution/General	Annual Program	D59RS	SUBSTATION ANNUAL-SUBSTATION	361,362,390		(95,158)		699,000		\$	351,916		(347,084)	-50%					\$	(347,084)	-50%		
18	2020	Distribution	Annual Program	DSPR8001	DG ENG DESIGN & CONSTR	364,365		(2,212)		199,000		\$	(36,764)		(235,764)	-118%					\$	(235,764)	-118%		
19	2020	General	Annual Program	GE9R	Tools and Equipment - Engineering	394,396		70,464		75,000		\$	238		(74,762)	-100%					\$	(74,762)	-100%		
20	2020	General	Annual Program	GM9R	Tools/Equipment - S/S Operations	391,394,396		402,314		160,000		\$	339,180		179,180	112%	\$	185,000	116%	\$	(5,820)	-2%			
21	2020	General	Annual Program	GT9R	Tools and Equipment- Troubleshooter	394		542,904		375,000		\$	412,050		37,050	10%					\$	37,050	10%	Direct variance 8%, supplement not needed	
22	2020	General	Annual Program	GX9R	Tools/Equipment - Field Operations	394		1,358,693		1,100,000		\$	846,888		(253,112)	-23%					\$	(253,112)	-23%		
23	2020	General	Annual Program	IT6DWANA	TELECOM WAN ANNUALS - PSNH	397		1,112		N/A		\$	759,580		N/A		N/A		N/A				N/A		
24	2020	Distribution	Annual Program	MINORR9	MINOR STORMS CAPITAL (Includes MINOR9x projects)	371		126,565		132,000		\$	165,839		33,839	26%	\$	70,000	53%	\$	(36,161)	-18%			
25	2020	General	Annual Program	NHEDVH20	NH Elec Distrib Vehicle Purchase	392		4,587,560		11,653,391		\$	4,808,159		(6,845,232)	-59%					\$	(6,845,232)	-59%		
26	2020	Distribution	Annual Program	NHLC03	NH LINE CONTRACTORS	364		21,987		300,000		\$	(319,557)		(619,557)	-207%					\$	(619,557)	-207%		
27	2020	General	Annual Program	NHTOOL5	NH-Tools/Equipment-Transportation	394		40,838		40,000		\$	40,838		838	2%					\$	838	2%		
28	2020	Distribution	Annual Program	NT006	General Expense	362		57,442		N/A		\$	3,737,962		N/A		N/A		N/A				N/A		
29	2020	Distribution	Annual Program	ROWL9R	ROW Relocations - Reimbursable	364,365		709		N/A		\$	-		N/A		N/A		N/A				N/A		
30	2020	General	Annual Program	VEHICLES	NH Vehicle Purchases Distrib	392		6,905,632				\$	128,253				N/A		N/A				N/A		
31	2020	Distribution	Annual Project	DA9R	NON-ROADWAY LIGHTING (Includes DA9x projects)	373		187,008		408,000		\$	352,347		(55,653)	-14%					\$	(55,653)	-14%		
32	2020	Distribution	Annual Project	DH9R	LINE RELOCATIONS (Includes DH9x projects)	369,371,373		1,104,325		1,584,000		\$	1,155,378		(428,622)	-27%					\$	(428,622)	-27%		
33	2020	Distribution	Annual Project	DK9R	MAINTAIN VOLTAGE (Includes DK9x projects)	369		436,796		1,043,000		\$	802,460		(240,540)	-23%	\$	115,000	11%	\$	(355,540)	-31%			
34	2020	Distribution	Annual Project	DQ9R	SYSTEM REPAIRS/OBSCOLESCENCE (Includes DQ9x, DQDB9x, DQOH9x, DQUG9x, ARDB9x, AROH9x, ARUG9x, IFDB9x, IFOH9x, IFUG9x projects)	364,365,366,367,368		12,512,248		16,011,000		\$	13,400,087		(2,610,913)	-16%					\$	(2,610,913)	-16%		
35	2020	Distribution	Annual Project	DR9R	RELIABILITY IMPROVEMENTS (Includes DR9x projects)	369		2,801,731		3,000,000		\$	2,943,508		(56,492)	-2%					\$	(56,492)	-2%		
36	2020	Distribution	Annual Project	DT7P	PURCHASE TRANSFORMERS AND REGULATOR	368		12,025,303		9,999,000		11,721,000	\$	12,024,595	\$	2,025,595	20%	\$	1,722,000	17%	\$	303,595	3%		
37	2020	Distribution	Annual Project	HPS9R/D79R	ROADWAY LIGHTING (Includes D79x projects)	364,365,366,367,369		52,824		120,000		\$	47,876		(72,124)	-60%					\$	(72,124)	-60%		
38	2020	Distribution	Annual Project	INS9R	INSURANCE CLAIM ANNUAL (includes INSOH9x, INSUG9x, INSD9x projects)	370,371,373		2,642,149		600,000		\$	929,418		329,418	55%	\$	372,000	62%	\$	(42,582)	-4%			
2020 Total							\$	53,275,173																	

Definitions:
Col. A: Plant in Service Year
Col. B: Plant Type (Distribution/General Plant)
Col. C: Specific project, Annual program/blanket project or Specific carryover project with trailing charges
Col. D: Internal Company project identifier
Col. E: Description of project work
Col. F: Plant account(s) for work orders contained within project
Col. G: Amount of plant additions placed in service for the plant year identified in Col. A.
Col. H: Annual authorization for projects that meet the criteria for needed an authorization based on Company policy
Col. I: First supplemental funding project authorization (direct, indirect, including cost of removal) (or N/A for none applicable) based on Company policy
Col. J: Second supplemental funding project authorization (direct, indirect, including cost of removal) (or N/A for none applicable) based on Company policy
Col. K: Actual Year to Date Project Costs (direct and indirect, including cost of removal) for the calendar year identified in Col. A.
Col. L: Variance (\$) between the actual annual costs as compared to annual authorized amount identified in Col. H.
Col. M: Variance (%) between actual annual costs as compared to annual authorized amount identified in Col. H.
Col. N: Variance (\$) between last supplement as compared to annual authorized amount identified in Col. H.
Col. O: Variance (%) between last supplement as compared to annual authorized amount identified in Col. H.
Col. P: Variance (\$) between actual annual costs as compared to final authorized amount.
Col. Q: Variance (%) between actual annual costs as compared to final authorized amount.
N/A indicates that the estimated project cost is below the threshold for needing a formal project authorization per Eversource Corporate policy.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Specific Carryover Projects Placed in Service in 2020, excluding New Business projects
Comparison of Budget to Actual

													As of 12/31/20					
Line	Year Col. A	Plant Type Col. B	Project Type Col. C	Specific Project No. Col. D	Project Description Col. E	In Service Year First WO Col. F	Plant Account(s) Col. G.	2020 Plant in Service Col. H	Current Authorization Col. I	Actual Project Life to Date Costs Col. J	Current Authorization Variance		Plant Account 101 or 106 Col. M	Reason for Plant in Service > \$50K or Variance > 10% Col. N				
											(S) Col. K	% Col. L / Col. I						
1	2020	General	Specific - Carryover	18707	2018 FAC LOB Bldg & GP	2018	391	\$	(5,237)	\$	2,784,940	\$	2,711,317	\$	(73,623)	-3%	106	
2	2020	General	Specific - Carryover	18726	ML 2018 PSNH LOB GP	2018	393	\$	(5,483)	\$	250,000	\$	214,679	\$	(35,321)	-14%	101	
3	2020	General	Specific - Carryover	19726	ML PSNH-D 2019 LOB - GP	2019	393,398	\$	(12,159)	\$	130,000	\$	111,025	\$	(18,975)	-15%	106	
4	2020	Distribution	Specific - Carryover	A12W05	REPL LACONIA UNDRGRD SWITCHGEAR 70W	2015	366,367	\$	(7,003)	\$	2,714,000	\$	2,760,642	\$	46,642	2%	101	
5	2020	Distribution	Specific - Carryover	A14N21	BERLIN EASTSIDE 34.5KV LINE BREAKER	2017	362	\$	(5,287)	\$	3,646,037	\$	3,698,786	\$	52,749	1%	101	
6	2020	Distribution	Specific - Carryover	A14W02	DANIEL SS (WEBSTER)-34.5KV SS UPGRD	2015	361,362	\$	133,654	\$	19,690,419	\$	19,583,520	\$	(106,899)	-1%	101	
7	2020	Distribution	Specific - Carryover	A14W18	N KEENE S/S NEW DIST CIRC	2015	364,365,368	\$	2,087	\$	1,811,000	\$	1,814,667	\$	3,667	0%	101	
8	2020	Distribution	Specific - Carryover	A15CDA	CENTRAL REGION 2015 DA	2015	364,365	\$	2,310	\$	5,584,945	\$	4,863,492	\$	(721,453)	-13%	106	
9	2020	Distribution	Specific - Carryover	A15EDA	EASTERN REGION 2015 DA	2015	364,365,366,367,369	\$	(90,668)	\$	5,861,000	\$	5,695,745	\$	(165,255)	-3%	106	
10	2020	Distribution	Specific - Carryover	A15SDA	SOUTHERN REGION 2015 DA	2015	364,365	\$	259,524	\$	3,470,000	\$	3,998,294	\$	528,294	15%	106	Direct variance (6%) , supplement not needed
11	2020	Distribution	Specific - Carryover	A16C06	324 LINE , REBUILD AT INDUSTRIAL AVE	2017	364,365	\$	(10,487)	\$	108,000	\$	65,667	\$	(42,333)	-39%	106	
12	2020	Distribution	Specific - Carryover	A16C09	Blaine St SS add 34.5-12KV 10MVA tr	2018	362	\$	(977)	\$	3,987,000	\$	4,008,636	\$	21,636	1%	101	
13	2020	Distribution	Specific - Carryover	A16C10	JACKMAN - REPLACE OBSOLETE EQUIPMEN	2018	362	\$	(2,352)	\$	7,155,259	\$	7,149,506	\$	(5,753)	0%	106	
14	2020	Distribution	Specific - Carryover	A16S02	RECON LINES 3110, 353, 3445X	2017	364,365	\$	(15,998)	\$	1,331,000	\$	1,315,011	\$	(15,989)	-1%	101	
15	2020	Distribution	Specific - Carryover	A16X01	ESCC control of Generation	2017	361,362,364,365,369	\$	8,741	\$	1,439,292	\$	1,391,671	\$	(47,621)	-3%	106	
16	2020	General	Specific - Carryover	A16X05	NH Energy Park: audio visual equip	2016	391,394	\$	31,997	\$	174,100	\$	133,642	\$	(40,458)	-23%	101	
17	2020	Distribution	Specific - Carryover	A17C04	GREGGS SS Removal	2019	365	\$	(75)	\$	586,000	\$	659,780	\$	73,780	13%	106	Direct variance (19%) , supplement not needed
18	2020	Distribution	Specific - Carryover	A17C13	BLAINE ST SUBSTATION LINE WORK	2017	364,365	\$	(6,921)	\$	496,000	\$	486,002	\$	(9,998)	-2%	106	
19	2020	Distribution	Specific - Carryover	A17C17	CIRCUIT TIE 3115X12 TO 3615X1	2017	364,365,368,369	\$	(19,513)	\$	2,700,000	\$	2,132,820	\$	(567,180)	-21%	106	
20	2020	Distribution	Specific - Carryover	A17E20	OCEAN RD SS 34.5KV OCB REPLACE	2019	362	\$	12,179	\$	2,850,000	\$	2,860,521	\$	10,521	0%	101	
21	2020	Distribution	Specific - Carryover	A17N02	MESSER ST - REPLACE TB70	2018	362,364,365	\$	9,637	\$	5,992,000	\$	6,181,338	\$	189,338	3%	101	
22	2020	Distribution	Specific - Carryover	A17N22	Beebe River SS Cap Switcher Replace	2019	362	\$	55,331	\$	986,000	\$	1,019,418	\$	33,418	3%	106	
23	2020	Distribution	Specific - Carryover	A17VRP	G&W Viper Warranty Replacment	2017	364,365	\$	(24,672)	\$	462,000	\$	523,825	\$	61,825	13%	101	Devices installed in 2018 were placed in service in 2019. Project reviewed as part of 2018 rate case.
24	2020	Distribution	Specific - Carryover	A17W23	Monadnock SS Cap Switcher Replaceme	2019	361,362	\$	2,266	\$	1,174,000	\$	966,316	\$	(207,684)	-18%	101	
25	2020	Distribution	Specific - Carryover	A18E12	CIRCUIT TIES 3172X1 - 3112X3	2019	364,365,369	\$	(8,255)	\$	742,984	\$	742,984	\$	-	0%	106	
26	2020	Distribution	Specific - Carryover	A18E23	Rochester Comcast Make Ready	2018	364,365,366,367,369,371	\$	42,333	\$	929,000	\$	927,839	\$	(1,161)	0%	106	
27	2020	Distribution	Specific - Carryover	A18VRP	Viper Replacment Project-Bettermnt	2018	362,364,365	\$	(159,467)	\$	9,879,000	\$	5,796,925	\$	(4,082,075)	-41%	106	
28	2020	Distribution	Specific - Carryover	A18W13	Route 9 Roxbury-Sullivan 10439	2018	364,365,369	\$	(2,183)	\$	590,000	\$	678,462	\$	88,462	15%	106	Direct variance (8%) , supplement not needed
29	2020	Distribution	Specific - Carryover	A18X08	S Milford Relay Replacment	2019	362	\$	12,682	\$	373,000	\$	429,757	\$	56,757	15%	101	Direct variance (1%) , supplement not needed
30	2020	Distribution	Specific - Carryover	A18X18	ROW Hardening/Reconductoring	2018	364,365	\$	9,359	\$	440,000	\$	248,733	\$	(191,267)	-43%	106	
31	2020	Distribution	Specific - Carryover	A18XDA	Distribution Automation - Substatio	2018	362	\$	(90)	\$	1,100,000	\$	1,009,330	\$	(90,670)	-8%	106	
32	2020	Distribution	Specific - Carryover	A19C05	Reconductor copper St Anselm Drive	2019	364,365,366,367	\$	(502)	\$	241,000	\$	239,291	\$	(1,709)	-1%	101	
33	2020	Distribution	Specific - Carryover	A19C25	Reconductor Bedford Road, 360X7	2019	364,365,367	\$	(2,852)	\$	300,000	\$	304,228	\$	4,228	1%	101	
34	2020	Distribution	Specific - Carryover	A19E26	Convert Four Rod Road in Rochester	2019	364,365,367,368	\$	(9,289)	\$	155,000	\$	170,993	\$	15,993	10%	101	Direct variance (15%) , supplement not needed
35	2020	Distribution	Specific - Carryover	A19N09	Relocate 1W1 Main Line onto Route 3	2019	364,365,369	\$	(1,060)	\$	319,000	\$	290,639	\$	(28,361)	-9%	106	
36	2020	Distribution	Specific - Carryover	A19N50	346X1 DEFECTIVE SPCA REPLACEMENT	2019	364,365	\$	(7,280)	\$	178,000	\$	179,110	\$	1,110	1%	101	
37	2020	Distribution	Specific - Carryover	A19S08	Relocate 3168X Bridge St S/S	2019	364,365,366,367,369	\$	(37,110)	\$	766,000	\$	708,299	\$	(57,701)	-8%	101	
38	2020	Distribution	Specific - Carryover	A19S27	Relocate 314 Line around Heron Pond	2019	364	\$	(77,974)	\$	928,000	\$	926,001	\$	(1,999)	0%	106	
39	2020	Distribution	Specific - Carryover	A19S46	SOUTH AVE DERRY STEP OVERLOAD	2019	364,365,369	\$	31	\$	199,000	\$	274,663	\$	75,663	38%	106	Direct variance (14%) , supplement not needed
40	2020	Distribution	Specific - Carryover	A19W10	Relocate feed to Hinsdale Wastewat	2019	364,365,366,367	\$	5,835	\$	292,000	\$	328,399	\$	36,399	12%	106	Direct variance (17%) , supplement not needed
41	2020	Distribution	Specific - Carryover	A19X01	Replace Degraded Manholes	2020	366	\$	25,298	\$	63,000	\$	42,163	\$	(20,837)	-33%	101	
42	2020	Distribution	Specific - Carryover	A19X64	SS SECURITY UPGRADES CIP5 NH	2019	362	\$	49,826	\$	168,000	\$	76,716	\$	(91,284)	-54%	106	
43	2020	Distribution	Specific - Carryover	C18ETT	NH ETT 2018	2018	365	\$	114,483	\$	6,319,000	\$	4,834,114	\$	(1,484,886)	-23%	101	
44	2020	Distribution	Specific - Carryover	D1276A	Distribution Design for F107 Projec	2017	364,365,366,367,369	\$	(36,290)	N/A		(58,847)	N/A	N/A	N/A	106		
45	2020	Distribution	Specific - Carryover	D1328AH	Distribution Design P134 Line	2020	364,365	\$	2,682	N/A		3,114	N/A	N/A	N/A	101		
46	2020	Distribution	Specific - Carryover	NHRMTR17	NH Remote Disconnect 2017 - 2018	2017	370	\$	49,276	\$	1,985,629	\$	2,332,725	\$	347,096	17%	101	
47	2020	Distribution	Specific - Carryover	NHRMTR18	NH Annual Meter Project for 2018	2018	370	\$	(48,630)	\$	2,320,000	\$	1,478,972	\$	(841,028)	-36%	101	
48	2020	Distribution	Specific - Carryover	R15CDA	REP3 - 2015-2016 Central Region DA	2015	364,365,369	\$	92,325	\$	6,097,000	\$	6,743,220	\$	646,220	11%	106	Direct variance 1%, supplement not needed
49	2020	Distribution	Specific - Carryover	R15DBR	REP3 Direct Buried Cable Replace	2016	364,365,366,367,369	\$	(1,658)	\$	4,389,000	\$	4,375,513	\$	(13,487)	0%	106	
50	2020	Distribution	Specific - Carryover	R15NDA	REP3 - 2015-2016 Northern Region D	2015	364,365	\$	8	\$	3,908,000	\$	4,140,479	\$	232,479	6%	101	

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Specific Carryover Projects Placed in Service in 2020, excluding New Business projects
Comparison of Budget to Actual

Line	Year	Plant Type	Project Type	Specific Project No.	Project Description	In Service Year	Plant Account(s)	2020 Plant in Service	Current Authorization	Actual Project Life to Date Costs	As of 12/31/20			Plant Account 101 or 106 Col. M	Reason for Plant in Service > \$50K or Variance > 10% Col. N
											Current Authorization Variance				
											(\$)	%			
											Col. K	Col. L			
											Col. J - Col. I	Col. K / Col. I			
51	2020	Distribution	Specific - Carryover	R15POR	Porcelain Change-out	2015	365	\$ 684	\$ 4,000,000	\$ 2,577,782	\$ (1,422,218)	-36%	106		
52	2020	Distribution	Specific - Carryover	R15RPR	Reject Pole Replacement	2015	364,365,366,367,369	\$ (4,712)	\$ 8,695,000	\$ 8,555,396	\$ (139,604)	-2%	106		
53	2020	Distribution	Specific - Carryover	R15RWM	ROW System Hardening	2015	364,365	\$ 19,593	\$ 3,958,000	\$ 3,999,118	\$ 41,118	1%	101		
54	2020	Distribution	Specific - Carryover	R15SDA	REP3 - 2015-2017 Southern Re	2016	364,365	\$ (5,102)	\$ 5,504,000	\$ 5,403,253	\$ (100,747)	-2%	106		
55	2020	Distribution/General	Specific - Carryover	R15TDA	TELECOM EXPANSION TO SUPPORT DA	2017	362,390,394,397	\$ (44,970)	\$ 2,562,000	\$ 2,723,085	\$ 161,085	6%	106		
56	2020		Distribution	Specific - Carryover	R15WDA	REP3 - 2015-2016 Western Region DA	2015	364,365	\$ 11,479	\$ 8,069,000	\$ 8,112,441	\$ 43,441	1%	106	
57	2020	Distribution	Specific - Carryover	R18CTC02	3178X CIRCUIT TIE HINSDALE	2019	364,365,366,367,369	\$ 10,991	\$ 2,069,000	\$ 2,068,693	\$ (307)	0%	106		
58	2020	Distribution	Specific - Carryover	STRM0617N	NH STORM CAP: Oct 29, 2017 event	2017	364,365,369,373	\$ (842)	\$ 1,949,600	\$ 2,005,273	\$ 55,673	3%	106		
2020 Total								\$ 309,513							

Definitions:

Col. A: Plant in Service Year

Col. B: Plant Type (Distribution/General Plant)

Col. C: Specific project, Annual program/blanket project or Specific carryover project with trailing charges

Col. D: Internal Company project identifier

Col. E: Description of project work

Col. F: Year when first work order was placed in service for project

Col. G: Plant account(s) for work orders contained within project

Col. H: Amount of plant additions placed in service for the plant year identified in Col. A.

Col. I: Current authorization for projects that meet the criteria for needing an authorization based on Company policy

Col. J: Actual Project Costs (direct and indirect, including cost of removal) through the year identified in Col. A.

Col. K: Variance (\$) between total actual costs as compared to current authorized amount identified in Col. I.

Col. L: Variance (%) between total actual costs as compared to current authorized amount identified in Col. I.

Col. M: Indicates whether one or more work orders are in FERC Account 106 (Completed Construction not Classified (CCNC)) and can still accept charges or FERC Account 101 (Completed and Unitized by Plant Accounting, work orders are closed out and will not allow charges.)

Col. N: Reason for variance for projects with plant in service greater than \$50,000 or have a variance of greater than 10%

N/A indicates that the estimated project cost is below the threshold for needing a formal project authorization per Eversource Corporate policy.

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 19-057
Testimony of Erica L. Menard and Jennifer A. Ullram
May 3, 2021

STATE OF NEW HAMPSHIRE
BEFORE THE
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DOCKET NO. DE 19-057
REQUEST FOR PERMANENT RATES ADJUSTMENT

DIRECT TESTIMONY OF
ERICA L. MENARD and JENNIFER A. ULLRAM
Step Adjustment Revenue Requirement and Rates

On behalf of Public Service Company of New Hampshire
d/b/a Eversource Energy

May 3, 2021

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 19-057
Testimony of Erica L. Menard and Jennifer A. Ullram
May 3, 2021

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d/b/a Eversource Energy
Docket No. DE 19-057
Testimony of Erica L. Menard and Jennifer A. Ullram
May 3, 2021
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**STATE OF NEW HAMPSHIRE
BEFORE THE
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**DIRECT TESTIMONY OF
ERICA L. MENARD and JENNIFER A. ULLRAM**

**PETITION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
d/b/a EVERSOURCE ENERGY
REQUEST FOR PERMANENT RATES ADJUSTMENT**

Docket No. DE 19-057

I. INTRODUCTION

Q. Ms. Menard, please state your full name, position and business address.

A. My name is Erica L. Menard. I am employed by Eversource Energy Service Company as Manager of New Hampshire Revenue Requirements. My business address is 780 North Commercial Street, Manchester, New Hampshire.

Q. What are your principal responsibilities in this position?

A. In my role as Manager of New Hampshire Revenue Requirements, I am responsible for the coordination and implementation of revenue requirements calculations for Public Service Company of New Hampshire d/b/a Eversource Energy (“Eversource” or the “Company”) in New Hampshire as well as the filings associated with the Company’s Energy Service (“ES”) rate, Stranded Cost Recovery Charge (“SCRC”), Transmission Cost Adjustment Mechanism (“TCAM”), Regulatory Reconciliation Adjustment (“RRA”) and Distribution Rates.

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1 **Q. Ms. Ullram, please state your full name, position and business address.**

2 A. My name is Jennifer A. Ullram. I am employed by Eversource Energy Service Company
3 as the Manager of Rates. My business address is 107 Selden Street, Berlin, Connecticut.

4 **Q. What are your principal responsibilities in this position?**

5 A. As the Manager of Rates, I am responsible for activities related to rate design, cost of
6 service and rates administration for Connecticut and New Hampshire electric and gas
7 subsidiaries of Eversource Energy, including the Company.

8 **Q. Did you both previously sponsor testimony in this docket that contains additional**
9 **information on your professional experience and educational backgrounds?**

10 A. Yes, Ms. Menard submitted direct testimony as part of the Company's initial request for
11 permanent rates on May 28, 2019 and rebuttal testimony jointly with Company Witnesses
12 Lee G. Lajoie and David L. Plante on March 4, 2020. Mr. Edward Davis initially submitted
13 direct testimony as part of the Company's temporary rate request on April 26, 2019, as part
14 of the initial request for permanent rates on May 28, 2019, as part of the Company's rebuttal
15 testimony on March 4, 2020. Ms. Ullram subsequently adopted that testimony and was the
16 witness for it.

17 **Q. What is the purpose of your testimony?**

18 A. The purpose of our joint testimony is to support the request for an increase in distribution
19 rates to be effective August 1, 2021, as provided in Section 10 of the Settlement Agreement
20 filed on October 9, 2020 and approved by the Commission per Order No. 26,433 on
21 December 15, 2020 and Order No. 26,439 on December 23, 2020 in this docket. This

request is for the second step increase referenced in the Settlement Agreement and pertains to certain projects placed in service during calendar year 2020. Our testimony addresses the revenue requirement calculations, rate design and rate impacts related to the relevant plant additions, consistent with the terms of the Settlement Agreement. Documentation on the projects themselves is included with the joint testimony of Messrs. Lajoie, Plante and Devereaux, which accompanies our testimony.

Q. Are you presenting any attachments in support of your testimony?

A. Yes, we are presenting the following attachments in support of this testimony:

Attachment	Description
Attachment ELM/JAU-1	Revenue Requirement
Attachment ELM/JAU-2	Distribution Rate Increase and Bill Impact Calculations Effective August 1, 2021
Attachment ELM/JAU-3	Clean and Redline Tariffs

Q. How is your testimony organized?

A. Following this introduction, Section II discusses the Settlement Agreement requirements, Section III explains the revenue requirement calculation, and Section IV provides the rate calculations.

II. SETTLEMENT AGREEMENT REQUIREMENTS

Q. Could you please describe what the Settlement Agreement provides relative to the step adjustments?

A. Yes. Section 10 of the Settlement Agreement on permanent rates in this docket provides for three step adjustments. This testimony supports the second of those adjustments. Under the Settlement Agreement, this step recovers the costs associated with capital

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1 projects placed in service during 2020, excluding new business projects. That is, it
2 excludes projects that were done to support new business on the basis that such projects
3 are expected to support themselves through newly generated revenue.

4 As for the step adjustment itself, it is capped at \$18 million in revenue, and any revenue
5 requirement above that amount will be deferred for some other means of recovery. If the
6 revenue requirement is less than \$18 million, only the actual amount will be recovered.
7 The rate for this step is designed to recover the total amount of the step adjustment and be
8 effective over the twelve-month period August 1, 2021 through July 31, 2022. The third
9 step will also include recovery on a 12-month basis for effect beginning August 1, 2022.
10 The rate impact of the second step adjustment is described in greater detail below.

11 **Q. Does the Settlement Agreement call for a revenue requirement calculation design to**
12 **be used for this step adjustment?**

13 A. As noted in Section 10 of the Settlement Agreement, the method for calculating the revenue
14 requirement for the step adjustment is similar to the Company's Settlement Agreement –
15 Step 1 Revenue Requirement filing on October 9, 2020 (see Bates pages 40-51,
16 Attachments ELM/EAD-1 to 4). For this second step increase, the Company has a cap of
17 \$18 million as defined in the Settlement Agreement. As shown in this filing, the Company
18 has allocated the overall step 2 revenue requirement increase of \$11,126,440 based on the
19 revenue percentage for each rate class as described below.

20 **Q. Please explain why the second step increase is significantly under the \$18 million cap**
21 **contemplated in the Settlement Agreement.**

22 A. Actual plant in service additions for the period ending 12/31/2020 was \$124.2 million
23 which was lower than the amount in the five year plan that was the basis of the settled upon

1 \$18 million cap. Plant additions in 2020 were lower due to delays in some larger substation
2 and facilities projects being placed in service by the 12/31/2020 date.

3 **Q. Does the Settlement Agreement call for a particular rate design to be used for this**
4 **step adjustment?**

5 A. Not directly, no. Section 14 of the Settlement Agreement describes the revenue allocation
6 that will be applied for the permanent rate increase. Specifically, the Settling Parties agreed
7 that the revenue increase would be allocated in equal proportionality among the classes. In
8 this filing, the Company has allocated the step increase revenues among classes based on
9 their respective distribution revenue, which is equivalent to each class receiving an equal
10 percentage allocation of such increase.

11 **III. REVENUE REQUIREMENT CALCULATION**

12 **Q. With the above general understandings, please explain how you calculated the**
13 **revenue requirement for the projects for which you are seeking recovery in this step**
14 **adjustment.**

15 A. As shown in Attachment ELM/JAU-1 on page 1, the revenue requirement for the second
16 step adjustment was calculated by first computing the year over year net change in plant
17 between year ending December 31, 2019 and year ending December 31, 2020 as shown on
18 line 5. Then, the return is calculated on net plant as shown on line 8 using the rate of return
19 and gross revenue conversion factor. Depreciation and property taxes are added to
20 calculate the total revenue requirement of \$11,126,440. Since the calculated revenue
21 requirement is below the threshold of \$18 million for the second step increase, the entire
22 amount is included in this second step increase.

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1 Page 2 of Attachment ELM/JAU-1 provides more detail on the distribution plant placed in
2 service, excluding new business. The detail of the plant additions shown on line 7 are
3 provided by project in the Lajoie/Plante/Devereaux testimony.

4 Page 3 of Attachment ELM/JAU-1 provides the detail on the capital structure as agreed
5 upon in the Settlement Agreement in this docket.

6 Page 4 of Attachment ELM/JAU-1 provides the computation of the Gross Revenue
7 Conversion Factor (GRCF) based on New Hampshire corporate business tax of 7.7 percent
8 and federal income tax rate of 21 percent for the taxable period ending December 31, 2020.
9 The rate of return and GCRF are used to calculate the return on the net plant.

10 Page 5 of Attachment ELM/JAU-1 provides the detail behind the calculation of the
11 composite depreciation rate of 3.15 percent used to apply a depreciation factor to the
12 revenue requirement.

13 Page 6 of Attachment ELM/JAU-1 provides the computation of the property tax rate to
14 apply to the revenue requirement.

15 **IV. RATE CALCULATIONS**

16 **Q. Please explain how you calculated the rates for this step adjustment.**

17 A. The revenue requirement recovery period for the second step increase is for the 12-month
18 period August 1, 2021 through July 31, 2022. Therefore, the Company calculated the rate
19 design revenue that rates would be set to recover the step increase over this twelve-month
20 period. This increase, when allocated to each rate class, is then designed to be recovered

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1 through volumetric or demand rates, depending on the distribution rate structure of each
2 rate class. Details of the rate design for each rate class are provided in ELM/JAU-2 to this
3 filing.

4 **Q. The Settlement Agreement indicates that the Company will not adjust the Customer**
5 **Charge for any increases. Why has the Customer Charge for Controlled Water**
6 **Heating (“CWH”) and Load Control Service (“LCS”) rates changed?**

7 A. As part of the Company’s distribution rate filing, the Company combined CWH and
8 Uncontrolled Water Heating (“UWH”) and phased-in rate changes to move CWH to UWH
9 rates. In addition, the Company described that LCS rates (excluding the radio-controlled
10 option) would be set equal to Water Heating rates. The Company described that this
11 process would be done in over a two-year phase in period so as to not result in significant
12 bill impacts to those customers. (See Docket DE 19-057, Testimony of Edward A. Davis,
13 pages 12-14). This is the second phase of the two-year plan and in order to have one
14 combined rate for these classes, it is necessary to update the Customer Charge so they are
15 equal for each of these rate classes.

16 **Q. Why is the overall distribution rate increase associated with Step 2 shown in**
17 **Attachment ELM/JAU-2, page 6 not equal to the revenue requirement increase**
18 **provided above?**

19 A. In the Step 1 adjustment implemented on January 1, 2021, the Company recovered the
20 \$10.610 million over 7 months which resulted in a grossed-up revenue requirement of

1 \$18.189 million. Because the current distribution revenue requirement being recovered is
2 higher due to the Step 1 increase, the incremental adjustment for Step 2 is lower than the
3 \$11.126 million being requested. Attachment ELM/JAU-2, Page 6 provides the calculation
4 of the total revenue requirement to be recovered beginning August 1, 2021.

5 **Q. What are the impacts related to the rate calculations you have described?**

6 A. The attachments to our testimony provide the percentage impacts of the rate adjustment to
7 each of the customer classes. Attachment ELM/JAU-2, Pages 1 through 5 shows the
8 overall revenue impacts, Attachment ELM/JAU-2, Pages 6 through 27 shows rate design
9 and resulting rates and revenue by rate class for the step adjustment, and Attachment
10 ELM/JAU-2, Pages 28 through 50 shows the bill impacts for each rate class. ELM/JAU-
11 2, Page 28 shows a bill impact of \$0.30 per month for a 650 kWh residential customer.

12 The rate and bill impacts reflect the twelve-month period August 1, 2021 through July 31,
13 2022 of recovery associated with this second step increase and the proposed Regulatory
14 Reconciliation Adjustment rate filed on April 30, 2021.

15 **Q. Are the revenue requirements and rates just and reasonable?**

16 A. Yes. The revenue requirement calculation and resulting rate impacts are consistent with
17 the Settlement Agreement and result in rates that are just and reasonable.

18 **Q. Does this complete your testimony?**

19 A. Yes, it does.

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Attachment ELM/JAU-1
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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
CALCULATION OF STEP ADJUSTMENT #2 (EXCLUDES NEW BUSINESS)

Line	Description	(effective 8/1/2021)		Reference
		Year-Ending 12/31/2019 (A)	Year-Ending 12/31/2020 (B)	
1	Total Utility Plant in Service	\$ 2,250,917,651	\$ 2,346,579,174	Attachment ELM/JAU-1, Page 2, Line 1
2	Accumulated Provision for Depreciation	<u>610,587,812</u>	<u>633,383,630</u>	Attachment ELM/JAU-1, Page 2, Line 2
3	Net Utility Plant	<u>1,640,329,840</u>	<u>1,713,195,544</u>	Line 1 - Line 2
4	Gross Plant Change		95,661,523	Line 1 Col. (B) - Line 1 Col. (A)
5	Net Plant Change (year over year)		72,865,705	Line 3 Col. (B) - Line 3 Col. (A)
6	Rate of Return		6.87%	Attachment ELM/JAU-1, Page 3, Line 11
7	Gross Revenue Conversion Factor		<u>1.37142</u>	Attachment ELM/JAU-1, Page 4, Line 7
8	Return		6,864,468	Line 5 x Line 6 x Line 7
9	Depreciation Rate		3.15%	Attachment ELM/JAU-1, Page 5, Line 71
10	Depreciation		2,295,270	Line 5 x Line 9
11	Property Tax Rate		2.06%	Attachment ELM/JAU-1, Page 6, Line 3
12	Property Taxes		1,966,703	Line 4 x Line 11
13	Total Revenue Requirement		<u>\$ 11,126,440</u>	Line 8 + Line 10 + Line 12
14	Step 2 Revenue Requirement Cap per Settlement Agreement		\$ 18,000,000	
15	Step 2 Revenue Increase (\$000s)		<u>\$ 11,126</u>	Line 13/1000

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**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DISTRIBUTION PLANT**

Line	Description	Year-Ending 12/31/2019 (A)	Year-Ending 12/31/2020 (B)	Reference
1	Total Utility Plant In Service	\$ 2,250,917,651	\$ 2,346,579,174	FERC Form 1 adj to excl New Business
2	Accumulated Provision for Depreciation	610,587,812	633,383,630	FERC Form 1 adj to excl New Business
3	Net Utility Plant	<u>1,640,329,840</u>	<u>1,713,195,544</u>	Line 1 - Line 2
4	Gross Distribution Plant Change (year over year)		<u>95,661,523</u>	Line 1 Col. (B) - Line 1 Col. (A)
5	Net Distribution Plant Change (year over year)		<u>72,865,705</u>	Line 3 Col. (B) - Line 3 Col. (A)
6	Beginning Plant Balance	2,171,045,400	2,250,917,651	Line 9 Col. (A)
7	Additions (excluding New Business)	124,926,620	124,215,060	FERC Form 1 adj to excl New Business
8	Retirements (excluding New Business)	(45,054,369)	(28,553,538)	FERC Form 1 adj to excl New Business
9	Ending Plant Balance	<u>\$ 2,250,917,651</u>	<u>\$ 2,346,579,174</u>	Line 6 + Line 7 + Line 8

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**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
COST OF CAPITAL**

Line	Description	Fixed Percentage	Cost	Rate of Return	Reference
		(A)	(B)	(C) = (A) x (B)	
1					
2					
3	Short-Term Debt	2.44%	2.07%	0.05%	
4	Long-term Debt	43.15%	4.08%	1.76%	
5	Common Equity	54.41%	9.30%	5.06%	
6					
7	Total Capital	100.00%		6.87%	Line 3 + Line 4 + Line 5
8	Weighted Cost of				
9	Debt			1.81%	Line 3 + Line 4
10	Equity			5.06%	Line 5
11	Cost of Capital			6.87%	Line 9 + Line 10

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**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
COMPUTATION OF GROSS REVENUE CONVERSION FACTOR**

Line	Description	12/31/2019	Step 2 12/31/2020	Reference
1	Operating revenue percentage	100.000%	100.000%	
2	Less: New Hampshire corporate business tax	<u>7.700%</u>	<u>7.700%</u>	
3	Operating revenue percentage after state taxes	92.300%	92.300%	Line 1 - Line 2
4	Federal income tax rate	21.000%	21.000%	
5	Federal income tax	<u>19.383%</u>	<u>19.383%</u>	Line 3 x Line 4
6	Operating income after federal income tax	<u><u>72.917%</u></u>	<u><u>72.917%</u></u>	Line 3 - Line 5
7	Gross revenue conversion factor	<u><u>137.142%</u></u>	<u><u>137.142%</u></u>	1 / Line 6

Note: Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST AND
AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO ELECTRIC PLANT AS OF DECEMBER 31, 2018
WHOLE LIFE DEPRECIATION - AMR RECOVERY OVER 9 YEARS

LINE	PLANT ACCOUNT	DESCRIPTION	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	CALCULATED ANNUAL ACCRUAL AMOUNT	RATE (G)=(F)/(E)	CALCULATED ACCRUED DEPRECIATION
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1								
2								
3		ELECTRIC PLANT						
4								
5		INTANGIBLE PLANT						
6								
7	303.00	MISCELLANEOUS INTANGIBLE PLANT	5-SQ	0	18,278,819.53	1,769,835	9.68	14,600,391
8	303.00	MISCELLANEOUS INTANGIBLE PLANT - AMR	5-SQ	0	2,864,448.00	95,483	3.33	2,660,846
9	303.20	MISCELLANEOUS INTANGIBLE PLANT - 10 YEAR	10-SQ	0	31,771,797.33	486,807	1.53	28,607,554
10								
11		TOTAL INTANGIBLE PLANT			52,915,064.86	2,352,125	4.45	45,868,791
12								
13		DISTRIBUTION PLANT						
14								
15	360.20	LAND AND LAND RIGHTS	75-R4	0	4,123,039.65	54,836	1.33	2,204,822
16	361.00	STRUCTURES AND IMPROVEMENTS	75-R3	(25)	26,387,975.26	438,700	1.66	6,187,652
17	362.00	STATION EQUIPMENT	55-S0.5	(25)	303,092,439.65	6,895,353	2.28	65,238,205
18	362.10	STATION EQUIPMENT - ENERGY MANAGEMENT SYSTEM	25-R2.5	0	3,155,937.71	126,238	4.00	1,015,444
19	364.00	POLES, TOWERS AND FIXTURES	53-R0.5	(90)	303,587,829.37	10,901,646	3.59	110,737,706
20	365.00	OVERHEAD CONDUCTORS AND DEVICES	55-R1	(35)	582,095,624.35	14,302,089	2.46	154,119,837
21	366.00	UNDERGROUND CONDUIT	60-R2	(40)	38,757,668.49	906,154	2.34	9,625,266
22	367.00	UNDERGROUND CONDUCTORS AND DEVICES	54-R1.5	(40)	133,741,822.05	3,463,913	2.59	42,368,714
23	368.00	LINE TRANSFORMERS	40-S0	(2)	262,481,157.73	6,693,270	2.55	73,140,846
24	369.10	OVERHEAD SERVICES	44-R2	(125)	81,721,434.74	4,173,922	5.11	47,501,588
25	369.20	UNDERGROUND SERVICES	55-R1.5	(125)	76,631,011.71	3,138,040	4.10	32,482,673
26	370.00	METERS	18-L1	0	44,821,891.75	2,479,416	5.53	19,961,157
27	370.00	METERS - AMR	18-L1	0	31,614,492.00	2,981,203	9.43	5,819,204
28	371.00	INSTALLATION ON CUSTOMERS' PREMISES	17-L0	(50)	6,563,781.88	578,892	8.82	3,082,834
29	373.00	STREET LIGHTING AND SIGNAL SYSTEMS	27-L0	(10)	5,130,537.46	208,813	4.07	2,083,777
30								
31		TOTAL DISTRIBUTION PLANT			1,903,906,643.80	57,342,485	3.01	575,569,725
32								
33		GENERAL PLANT						
34								
35	389.20	LAND AND LAND RIGHTS	65-R4	0	26,976.55	415	1.54	13,692
36	390.00	STRUCTURES AND IMPROVEMENTS	50-S0.5	(10)	84,363,470.03	1,854,713	2.20	20,052,815
37	390.10	STRUCTURES AND IMPROVEMENTS - LEASEHOLD	20-S0.5	0	50,859.53	2,543	5.00	19,095
38	391.10	OFFICE FURNITURE AND EQUIPMENT	20-SQ	0	9,755,154.62	487,758	5.00	4,695,337
39	391.20	OFFICE FURNITURE AND EQUIPMENT - COMPUTER EQUIPMENT	5-SQ	0	1,672,250.89	243,506	14.56	960,508
40								
41		TRANSPORTATION EQUIPMENT						
42								
43	392.00	OTHER	15-S4	15	30,225.00	1,714	5.67	14,507
44	392.10	CARS	6-L3	15	97,593.41	13,828	14.17	13,479
45	392.20	LIGHT TRUCKS	11-S1	15	8,605,166.97	664,878	7.73	2,687,250
46	392.30	MEDIUM TRUCKS	14-S3	15	2,764,714.96	167,791	6.07	767,426
47	392.40	HEAVY TRUCKS	15-S2.5	15	26,391,434.00	1,496,262	5.67	8,212,511
48	392.50	ROLLING EQUIPMENT	13-L2.5	15	1,321,753.47	86,396	6.54	235,242
49	392.60	TRAILERS	13-L3	15	4,958,571.11	324,117	6.54	1,661,871
50	392.70	ELECTRIC VEHICLE CHARGING STATION	10-R4	0	7,902.10	790	10.00	5,244
51								
52		TOTAL TRANSPORTATION EQUIPMENT			44,177,361.02	2,755,776	6.24	13,597,530
53								
54	393.00	STORES EQUIPMENT	20-SQ	0	3,257,904.89	162,895	5.00	1,109,379
55	394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	0	14,194,677.76	567,787	4.00	4,037,342
56	395.00	LABORATORY EQUIPMENT	20-SQ	0	2,072,746.95	96,433	4.65	1,339,656
57	396.00	POWER OPERATED EQUIPMENT	15-L4	0	159,421.09	10,633	6.67	71,720
58								
59		COMMUNICATION EQUIPMENT						
60								
61	397.10	MICROWAVE	15-SQ	0	5,646,707.11	240,089	4.25	3,854,488
62	397.20	OTHER	15-SQ	0	22,098,802.35	1,279,811	5.79	10,667,691
63	397.30	GPS	5-SQ	0	443,487.30	54,399	12.27	366,151
64								
65		TOTAL COMMUNICATION EQUIPMENT			28,188,996.76	1,574,299	5.58	14,888,330
66								
67	398.00	MISCELLANEOUS EQUIPMENT	20-SQ	0	1,279,168.86	63,958	5.00	658,566
68								
69		TOTAL GENERAL PLANT			189,198,988.95	7,820,716	4.13	61,443,970
70								
71		TOTAL DEPRECIABLE PLANT			2,146,020,697.61	67,515,326	3.15	682,882,486
72								
73		NONDEPRECIABLE PLANT						
74								
75	301.00	ORGANIZATION			45,057.29			
76	360.10	LAND			5,830,013.57			
77	389.10	LAND			4,806,992.04			
78								
79		TOTAL NONDEPRECIABLE PLANT			10,682,062.90			
80								
81		TOTAL ELECTRIC PLANT			2,156,702,760.51	67,515,326		682,882,486
82								
83		* AMR METERS NET BOOK VALUE BEING DEPRECIATED OVER 9 YEARS						
84		** NEW ADDITIONS TO THIS ACCOUNT WILL BE DEPRECIATED USING A 10.00% RATE						
85								
86		Less Transportation Equipment				(2,755,776)		
87		TOTAL ELECTRIC PLANT				64,759,550		

Public Service Company of New Hampshire
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**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
PROPERTY TAX RATE CALCULATION**

<u>Line</u>	<u>Description</u>	<u>Year-Ended 12/31/2020</u>	<u>Reference</u>
1	Total Distribution Property Taxes	\$ 48,644,096	Reflects CY 2020 property tax expense
2	Gross Distribution Plant In Service	\$ 2,366,075,567	Reflects total distribution plant @ 12/31/2020
3	Gross Property Tax Rate	<u>2.06%</u>	Line 1 / Line 2

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STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

Report of Proposed Rate Changes - Rate Year 2

Tariff NHPUC No. 10

Date Effective: August 1, 2021

(A)	(B)	(C)	(D)	(E)	(F) = (E) - (D)	(G) = (F) / (D)
	Effect of Proposed Change	Average Number of Customers	Estimated Annual Revenue (a)		Proposed Annual Change	
Class of Service			Current Rates (b)	Proposed Rates (c)	Revenue	Percent
Residential Service Rate R and R-OTOD	Increase	439,078	\$ 625,448,301	\$ 626,918,803	\$ 1,470,502	0.2%
General Service Rate G and Rate G-OTOD	Increase	75,983	\$ 302,547,145	\$ 303,161,603	\$ 614,458	0.2%
Primary General Service Rate GV	Increase	1,393	\$ 232,157,915	\$ 232,434,850	\$ 276,935	0.1%
Large General Service Rate LG	Increase	121	\$ 154,639,157	\$ 154,766,032	\$ 126,875	0.1%
Outdoor Lighting Service Rate OL and Rate EOL	Decrease	773	\$ 9,773,602	\$ 9,813,915	\$ 40,313	0.4%
Total (a)	Increase	517,349	\$ 1,324,566,120	\$ 1,327,095,203	\$ 2,529,083	0.2%

Notes:

(a) Based on actual sales to customers for the twelve-month period ending December 31, 2018, normalized for lighting inventory as of December 2018.

(b) Current rate revenue is based on distribution rates effective January 1, 2021, and transmission, stranded cost recovery, system benefits, and energy service rates in effect as of the filing date.

(c) Proposed rate revenue is based on proposed distribution rates for effect August 1, 2021

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STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

Report of Proposed Rate Changes
Current Rates

Tariff NHPUC No. 10

Date Effective: August 1, 2021

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H) = Sum of (B) to (G)
	Current	Current	Current	Current	Current	Current	Total
Class	Distribution	Transmission	SCRC	System	Regulatory	Energy	Revenue
				Benefits	Reconciliation	Service (b)	
					Adjustment		
Residential Service Rate R (a)	\$ 239,431,275	\$ 97,714,996	\$ 46,959,308	\$ 24,330,751	\$ -	\$ 217,011,971	\$ 625,448,301
General Service Rate G	99,965,725	49,219,118	25,859,889	12,854,042	-	114,648,371	302,547,145
Primary General Service Rate GV	43,191,862	44,111,953	20,721,111	12,396,614	-	111,736,375	232,157,915
Large General Service Rate LG	23,883,863	29,120,817	8,427,386	9,308,181	-	83,898,910	154,639,157
Outdoor Lighting Rates OL, EOL	<u>6,519,317</u>	<u>586,558</u>	<u>567,177</u>	<u>211,765</u>	<u>-</u>	<u>1,888,785</u>	<u>9,773,602</u>
Total Retail	<u>\$ 412,992,042</u>	<u>\$ 220,753,442</u>	<u>\$ 102,534,871</u>	<u>\$ 59,101,353</u>	<u>\$ -</u>	<u>\$ 529,184,412</u>	<u>\$ 1,324,566,120</u>

Notes:

(a) Revenues for Residential Rate R do not include credits issued to qualifying customers under the Residential Electric Assistance Program.

(b) For purposes of this calculation, all customers are assumed to receive service under the Energy Service rate.

(c) Support for amounts shown above is contained in ELM/JAU-2, pages 11 through 21.

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STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

Report of Proposed Rate Changes
Proposed Rates

Tariff NHPUC No. 10

Date Effective: August 1, 2021

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H) = Sum of (B) to (G)
	Proposed Permanent Distribution	Current Transmission	Current SCRC	Current System Benefits	Proposed Regulatory Reconciliation Adjustment	Current Energy Service (b)	Total Revenue
Class							
Residential Service Rate R (a)	\$ 241,490,102	\$ 97,714,996	\$ 46,959,308	\$ 24,330,751	(588,325)	\$ 217,011,971	\$ 626,918,803
General Service Rate G	100,826,165	49,219,118	25,859,889	12,854,042	(245,982)	114,648,371	303,161,603
Primary General Service Rate GV	43,574,884	44,111,953	20,721,111	12,396,614	(106,087)	111,736,375	232,434,850
Large General Service Rate LG	24,083,195	29,120,817	8,427,386	9,308,181	(72,457)	83,898,910	154,766,032
Outdoor Lighting Rates OL, EOL	<u>6,575,656</u>	<u>586,558</u>	<u>567,177</u>	<u>211,765</u>	<u>(16,026)</u>	<u>1,888,785</u>	<u>9,813,915</u>
Total Retail	<u>\$ 416,550,002</u>	<u>\$ 220,753,442</u>	<u>\$ 102,534,871</u>	<u>\$ 59,101,353</u>	<u>\$ (1,028,877)</u>	<u>\$ 529,184,412</u>	<u>\$ 1,327,095,203</u>

Notes:

(a) Revenues for Residential Rate R do not include credits issued to qualifying customers under the Residential Electric Assistance Program.

(b) For purposes of this calculation, all customers are assumed to receive service under the Energy Service rate.

(c) Support for amounts shown above is contained in ELM/JAU-2, pages 11 through 21.

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STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

Report of Proposed Rate Changes
Incremental Increase/(Decrease)

Tariff NHPUC No. 10

Date Effective: August 1, 2021

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H) = Sum of (B) to (G)
Class	Proposed Permanent Distribution (b)	Current Transmission	Current SCRC	Current System Benefits	Proposed Regulatory Reconciliation Adjustment	Current Energy Service (c)	Total Revenue
Residential Service Rate R (a)	\$ 2,058,827	\$ -	\$ -	\$ -	\$ (588,325)	\$ -	\$ 1,470,502
General Service Rate G	860,440	-	-	-	(245,982)	-	614,458
Primary General Service Rate GV	383,022	-	-	-	(106,087)	-	276,935
Large General Service Rate LG	199,332	-	-	-	(72,457)	-	126,875
Outdoor Lighting Rates OL, EOL	56,339	-	-	-	(16,026)	-	40,313
Total Retail	<u>\$ 3,557,960</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ (1,028,877)</u>	<u>\$ -</u>	<u>\$ 2,529,083</u>

Notes:

(a) Revenues for Residential Rate R do not include credits issued to qualifying customers under the Residential Electric Assistance Program.

(b) ELM/JAU-2, page 3 - ELM/JAU-2, page 2

(c) For purposes of this calculation, all customers are assumed to receive service under the Energy Service rate.

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STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

Report of Proposed Rate Changes
Percent Increase/(Decrease)

Tariff NHPUC No. 10

Date Effective: August 1, 2021

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Class	Proposed Permanent Distribution (b)	Current Transmission	Current SCRC	Current System Benefits	Proposed Regulatory Reconciliation Adjustment (c)	Current Energy Service (d)	Total Revenue
Residential Service Rate R (a)	0.9%	0.0%	0.0%	0.0%		0.0%	0.2%
General Service Rate G	0.9%	0.0%	0.0%	0.0%		0.0%	0.2%
Primary General Service Rate GV	0.9%	0.0%	0.0%	0.0%		0.0%	0.1%
Large General Service Rate LG	0.8%	0.0%	0.0%	0.0%		0.0%	0.1%
Outdoor Lighting Rates OL, EOL	0.9%	0.0%	0.0%	0.0%		0.0%	0.4%
Total Retail	0.9%	0.0%	0.0%	0.0%		0.0%	0.2%

Notes:

(a) Revenues for Residential Rate R do not include credits issued to qualifying customers under the Residential Electric Assistance Program.

(b) Percent change is ELM/JAU-2, page 4, Column (B) / ELM/JAU-2, page 2, Column (B)

(c) Not a calculable value

(d) For purposes of this calculation, all customers are assumed to receive service under the Energy Service rate.

**Distribution Revenue Allocation
Settlement Rate Year 2**

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Current Rate Distribution Revenue	\$	412,992
Permanent Distribution Revenue	\$	394,987
Temporary Rate Recoupment (1/1/21-12/31/21)		4,857
Customer Surcredit (1/1/21-12/31/21)		(5,020)
Step 1 Adjustment (8/1/20-7/31/21)		10,610
Step 2 Adjustment (8/1/21-7/31/22)		11,126
Proposed Distribution Revenue	\$	416,561
Incremental Increase	\$	3,569
Step 2 Average Percentage Change		0.86%

Source:
Line 59, Column A
Settlement Agreement
Settlement Agreement
Settlement Agreement
Per Order 26,439 (12/23/20)
Attachment ELM/JAU-1
Sum of Lines 13 to 17
Line 19 - Line 11
Line 21 / Line 11

	A	B	C = B * Line 23	D = B + C	E	F = E - B	G = F / A	H = G / B
	Test Year 2018 Billed Sales (MWh)	Current Rate Distribution Revenue (Rev \$000)	Step 2 D Change (Rev \$000)	Distribution Target (Rev \$000)	Proposed Rate Distribution (Rev \$000)	Difference Proposed vs Current (Rev \$000)	c/kWh	% Chg.
R	3,144,509	\$ 233,917.8	\$ 2,021.4	\$ 235,939.2	\$ 235,930.3			
R-TOD	462	40.5	0.4	40.9	40.6			
	3,144,971	233,958.4	2,021.7	235,980.1	235,970.9	\$ 2,012.6	0.064	0.86%
R-WH	92,916	4,708.1	40.7	4,748.8	4,741.3			
G-WH	3,379	154.0	1.3	155.4	155.2			
LCS-R	36,777	764.8	6.6	771.4	777.8			
LCS-G	4,510	73.5	0.6	74.1	75.6			
	137,582	5,700.4	49.3	5,749.7	5,750.0	49.6	0.036	0.87%
G	1,715,822	99,292.3	858.0	100,150.3	100,145.0			
G-TOD	856	206.8	1.8	208.6	209.1			
	1,716,678	99,499.1	859.8	100,358.9	100,354.1	855.1	0.050	0.86%
G-SH	5,452	239.1	2.1	241.2	241.2	2.1	0.038	0.87%
GV	1,665,676	42,940.9	371.1	43,312.0	43,322.2	381.3	0.023	0.89%
LG	1,172,439	22,335.3	193.0	22,528.4	22,521.7	186.3	0.016	0.83%
B-GV	2,778	250.9	2.2	253.1	252.7			
B-LG	80,345	1,548.5	13.4	1,561.9	1,561.5			
	83,123	1,799.5	15.5	1,815.0	1,814.3	14.8	0.018	0.82%
EOL	11,371	2,126.0	18.4	2,144.4	2,144.4			
OL	17,130	4,393.3	38.0	4,431.3	4,431.3			
	28,501	6,519.3	56.3	6,575.7	6,575.7	56.3	0.198	0.86%
Total Retail	7,954,422	\$ 412,992.0	\$ 3,568.8	\$ 416,560.9	\$ 416,550.0	\$ 3,558.0	0.045	0.86%
				Distribution Target Difference	\$ 416,560.9 \$ (10.9)	Line 59, Col. E Line 59, Col. F - Line 61, Col. F		

SUMMARY OF CURRENT AND PROPOSED DISTRIBUTION RATES

Rate	Blocks	Current Rates (01/01/21)	Proposed Rates (08/01/21)	Percent Change
R	Customer charge	\$ 13.81	\$ 13.81	0.00%
	All KWH	0.05116	0.05180	1.25%
Uncontrolled				
Water	Meter charge	\$ 4.87	\$ 4.87	0.00%
Heating	All KWH	0.02361	0.02395	1.44%
Controlled				
Water	Meter charge	\$ 6.38	\$ 4.87	-23.67%
Heating	All KWH	0.01241	0.02395	92.99%
R-OTOD	Customer charge	\$ 32.08	\$ 32.08	0.00%
	On-peak KWH	\$ 0.15015	\$ 0.15079	0.43%
	Off-peak KWH	0.00818	0.00818	0.00%
G	Single phase customer charge	\$ 16.21	\$ 16.21	0.00%
	Three phase customer charge	32.39	32.39	0.00%
	Load charge (over 5 KW)	\$ 11.49	\$ 11.70	1.83%
	First 500 KWH	\$ 0.02805	\$ 0.02805	0.00%
	Next 1,000 KWH	0.02268	0.02268	0.00%
	All additional KWH	0.01709	0.01709	0.00%
Space	Meter charge	\$ 3.24	\$ 3.24	0.00%
Heating	All KWH	0.04088	0.04126	0.93%
G-OTOD	Single phase customer charge	\$ 41.98	\$ 41.98	0.00%
	Three phase customer charge	60.00	60.00	0.00%
	Load charge	\$ 14.92	\$ 15.13	1.41%
	On-peak KWH	0.05335	0.05335	0.00%
	Off-peak KWH	0.00836	0.00836	0.00%
LCS	Radio-controlled option	\$ 6.99	\$ 6.99	0.00%
	8, 10 or 11-hour option	6.38	4.87	-23.67%
	Switch option	6.99	4.87	-30.33%
	Radio-controlled option	\$ 0.01241	\$ 0.01275	2.74%
	8-hour option	0.01241	0.02395	92.99%
	10 or 11-hour option	0.02361	0.02395	1.44%

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SUMMARY OF CURRENT AND PROPOSED DISTRIBUTION RATES

Rate	Blocks	Current Rates (01/01/21)	Proposed Rates (08/01/21)	Percent Change
GV	Customer charge	\$ 211.21	\$ 211.21	0.00%
	First 100 KW	\$ 6.90	\$ 6.99	1.30%
	All additional KW	6.64	6.73	1.36%
	First 200,000 KWH	\$ 0.00656	\$ 0.00656	0.00%
	All additional KWH	0.00583	0.00583	0.00%
	Minimum Charge	\$ 1,062.00	\$ 1,062.00	0.00%
LG	Customer charge	\$ 660.15	\$ 660.15	0.00%
	Demand charge	\$ 5.85	\$ 5.92	1.20%
	On-peak KWH	\$ 0.00554	\$ 0.00554	0.00%
	Off-peak KWH	0.00468	0.00468	0.00%
	Minimum Charge	\$ 1,126.00	\$ 1,126.00	0.00%
	Discount for Service at 115kV	\$ (0.51)	\$ (0.51)	0.00%
B Service at less than 115 KV	Administrative charge	\$ 372.10	\$ 372.10	0.00%
	Translation charge	62.42	62.42	0.00%
	Demand charge	\$ 5.37	\$ 5.42	0.93%
	All KWH	Energy charges in the standard rate		
B Service at 115 KV or higher	Administrative charge	\$ 372.10	\$ 372.10	0.00%
	Translation charge	62.42	62.42	0.00%
	Demand charge	Not applicable		
	All KWH	Not applicable		

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SUMMARY OF CURRENT AND PROPOSED DISTRIBUTION RATES

Outdoor Lighting Service Rate OL

	<u>Lumens</u>	<u>Watts</u>	<u>Current Rates (01/01/21)</u>	<u>Proposed Rates (08/01/21)</u>	<u>Percent Change</u>
For new and existing installations					
High Pressure Sodium	4,000	50	\$ 15.42	\$ 15.56	0.86%
	5,800	70	15.42	15.56	0.86%
	9,500	100	20.51	20.69	0.86%
	16,000	150	29.01	29.26	0.86%
	30,000	250	29.73	29.98	0.86%
	50,000	400	30.06	30.32	0.86%
	130,000	1,000	48.24	48.66	0.86%
Metal Halide	5,000	70	16.09	16.23	0.86%
	8,000	100	22.02	22.21	0.86%
	13,000	150	30.21	30.48	0.86%
	13,500	175	30.86	31.12	0.86%
	20,000	250	30.86	31.12	0.86%
	36,000	400	31.14	31.41	0.86%
	100,000	1,000	46.68	47.08	0.86%
Light Emitting Diode (LED)	2,500	28	10.18	10.27	0.86%
	4,100	36	10.16	10.25	0.86%
	4,800	51	10.32	10.41	0.86%
	8,500	92	11.35	11.45	0.86%
	13,300	142	12.54	12.65	0.86%
	24,500	220	15.72	15.86	0.86%
For existing installations only					
Incandescent	600	105	8.89	8.96	0.86%
	1,000	105	9.92	10.00	0.86%
	2,500	205	12.73	12.84	0.86%
	6,000	448	21.86	22.05	0.86%
Mercury	3,500	100	13.60	13.72	0.86%
	7,000	175	16.37	16.51	0.86%
	11,000	250	20.24	20.41	0.86%
	15,000	400	23.15	23.35	0.86%
	20,000	400	24.99	25.21	0.86%
	56,000	1,000	39.72	40.07	0.86%
Fluorescent	20,000	330	33.90	34.19	0.86%
High Pressure Sodium in existing mercury luminaires					
	12,000	150	21.21	21.40	0.86%
	34,200	360	27.16	27.39	0.86%

Summary of Revenues by Type and Class

Current Revenues							
	Distribution	Transmission	SCRC	SBC	RRA	Energy	Total
Rate R	233,917,833	94,681,175	45,312,379	23,363,704	-	208,386,632	605,661,723
Rate R CWH	25,839	12,698	4,527	4,047	-	36,099	83,210
Rate R UWH	4,682,307	2,153,177	1,331,072	686,319	-	6,121,452	14,974,327
Rate R LCS	764,776	857,268	305,616	273,252	-	2,437,203	4,638,115
Rate R OTOD	40,520	10,678	5,714	3,429	-	30,585	90,926
Rate R	239,431,275	97,714,996	46,959,308	24,330,751	-	217,011,971	625,448,301
Rate G	99,292,251	48,826,887	25,648,269	12,748,559	-	113,707,536	300,223,502
Rate G CWH	-	-	-	-	-	-	-
Rate G UWH	154,033	78,771	52,109	25,108	-	223,946	533,967
Rate G LCS	73,491	105,125	40,364	33,508	-	298,870	551,358
Rate G Space	239,120	153,034	105,221	40,507	-	361,295	899,177
Rate G OTOD	206,830	55,301	13,926	6,360	-	56,724	339,141
Rate G	99,965,725	49,219,118	25,859,889	12,854,042	-	114,648,371	302,547,145
Rate GV	43,191,862	44,111,953	20,721,111	12,396,614	-	111,736,375	232,157,915
Rate LG	23,883,863	29,120,817	8,427,386	9,308,181	-	83,898,910	154,639,157
Rate OL/EOL	6,519,317	586,558	567,177	211,765	-	1,888,785	9,773,602
TOTAL	412,992,042	220,753,442	102,534,871	59,101,353	-	529,184,412	1,324,566,120

Proposed Revenues							
	Distribution	Transmission	SCRC	SBC	RRA	Energy	Total
Rate R	235,930,319	94,681,175	45,312,379	23,363,704	(575,034)	208,386,632	607,099,175
Rate R CWH	27,609	12,698	4,527	4,047	(55)	36,099	84,925
Rate R UWH	4,713,714	2,153,177	1,331,072	686,319	(9,408)	6,121,452	14,996,326
Rate R LCS	777,842	857,268	305,616	273,252	(3,744)	2,437,203	4,647,437
Rate R OTOD	40,618	10,678	5,714	3,429	(84)	30,585	90,940
Rate R	241,490,102	97,714,996	46,959,308	24,330,751	(588,325)	217,011,971	626,918,803
Rate G	100,145,044	48,826,887	25,648,269	12,748,559	(243,941)	113,707,536	300,832,354
Rate G CWH	-	-	-	-	-	-	-
Rate G UWH	155,182	78,771	52,109	25,108	(344)	223,946	534,772
Rate G LCS	75,649	105,125	40,364	33,508	(460)	298,870	553,056
Rate G Space	241,192	153,034	105,221	40,507	(588)	361,295	900,661
Rate G OTOD	209,098	55,301	13,926	6,360	(649)	56,724	340,760
Rate G	100,826,165	49,219,118	25,859,889	12,854,042	(245,982)	114,648,371	303,161,603
Rate GV	43,574,884	44,111,953	20,721,111	12,396,614	(106,087)	111,736,375	232,434,850
Rate LG	24,083,195	29,120,817	8,427,386	9,308,181	(72,457)	83,898,910	154,766,032
Rate OL/EOL	6,575,656	586,558	567,177	211,765	(16,026)	1,888,785	9,813,915
TOTAL	416,550,002	220,753,442	102,534,871	59,101,353	(1,028,877)	529,184,412	1,327,095,203

Note: Immaterial differences due to rounding.

Source of data is Appendix 10, pages 12 through 21

Comparison of Current vs Proposed
Permanent Rates

Rate R - Residential Electric Service

	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	5,289,264	\$ 13.81	\$ 73,044,736	\$ 13.81	\$ 73,044,736	\$ -	0.00%
Energy Charge All kWh	3,144,509,315						
Distribution		\$ 0.05116	\$ 160,873,097	\$ 0.05180	\$ 162,885,583	\$ 2,012,486	1.25%
Transmission		0.03011	94,681,175	0.03011	94,681,175	-	0.00%
Stranded Cost Recovery Charge		0.01441	45,312,379	0.01441	45,312,379	-	0.00%
System Benefits Charge		0.00743	23,363,704	0.00743	23,363,704	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00018)	(575,034)	(575,034)	0.00%
Energy Service Charge		0.06627	208,386,632	0.06627	208,386,632	-	0.00%
Distribution Impact Only		\$ 0.07439	\$ 233,917,833	\$ 0.07503	\$ 235,930,319	\$ 2,012,486	0.86%
Total Change		\$ 0.19261	\$ 605,661,723	\$ 0.19307	\$ 607,099,175	\$ 1,437,452	0.24%

Rate R - Residential Uncontrolled Water Heating

Customer Charge							
Customer Charge	513,638	\$ 4.87	\$ 2,501,419	\$ 4.87	\$ 2,501,419	\$ -	0.00%
Energy Charge All kWh	92,371,389						
Distribution		\$ 0.02361	\$ 2,180,888	\$ 0.02395	\$ 2,212,295	\$ 31,407	1.44%
Transmission		0.02331	2,153,177	0.02331	2,153,177	-	0.00%
Stranded Cost Recovery Charge		0.01441	1,331,072	0.01441	1,331,072	-	0.00%
System Benefits Charge		0.00743	686,319	0.00743	686,319	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(9,408)	(9,408)	0.00%
Energy Service Charge		0.06627	6,121,452	0.06627	6,121,452	-	0.00%
Distribution Impact Only		\$ 0.05069	\$ 4,682,307	\$ 0.05103	\$ 4,713,714	\$ 31,407	0.67%
Total Change		\$ 0.16211	\$ 14,974,327	\$ 0.16235	\$ 14,996,326	\$ 21,999	0.15%

Rate R - Residential Controlled Water Heating

Customer Charge							
Customer Charge	2,990	\$ 6.38	\$ 19,079	\$ 4.87	\$ 14,563	\$ (4,516)	-23.67%
Energy Charge All kWh	544,730						
Distribution		\$ 0.01241	\$ 6,760	\$ 0.02395	\$ 13,046	\$ 6,286	92.99%
Transmission		0.02331	12,698	0.02331	12,698	-	0.00%
Stranded Cost Recovery Charge		0.00831	4,527	0.00831	4,527	-	0.00%
System Benefits Charge		0.00743	4,047	0.00743	4,047	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(55)	(55)	0.00%
Energy Service Charge		0.06627	36,099	0.06627	36,099	-	0.00%
Distribution Impact Only		\$ 0.04743	\$ 25,839	\$ 0.05068	\$ 27,609	\$ 1,770	6.85%
Total Change		\$ 0.15275	\$ 83,210	\$ 0.15590	\$ 84,925	\$ 1,715	2.06%

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Comparison of Current vs Proposed Permanent Rates							
Rate R - Load Control Service, Radio Controlled	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	41,348	\$ 6.99	\$ 289,020	\$ 6.99	\$ 289,020	\$ -	0.00%
Energy Charge All kWh	36,095,933						
Distribution		\$ 0.01241	\$ 447,951	\$ 0.01275	\$ 460,223	\$ 12,272	2.74%
Transmission		0.02331	841,396	0.02331	841,396	-	0.00%
Stranded Cost Recovery Charge		0.00831	299,957	0.00831	299,957	-	0.00%
System Benefits Charge		0.00743	268,193	0.00743	268,193	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(3,676)	(3,676)	0.00%
Energy Service Charge		0.06627	2,392,077	0.06627	2,392,077	-	0.00%
Distribution Impact Only		\$ 0.02042	\$ 736,971	\$ 0.02076	\$ 749,243	\$ 12,272	1.67%
Total Change		\$ 0.12574	\$ 4,538,594	\$ 0.12598	\$ 4,547,190	\$ 8,596	0.19%
Rate R - Load Control Service, 8 Hour Switch							
Customer Charge							
Customer Charge	145	\$ 6.99	\$ 1,010	\$ 4.87	\$ 704	\$ (306)	-30.33%
Energy Charge All kWh	44,152						
Distribution		\$ 0.01241	\$ 548	\$ 0.02395	\$ 1,057	\$ 509	92.99%
Transmission		0.02331	1,029	0.02331	1,029	-	0.00%
Stranded Cost Recovery Charge		0.00831	367	0.00831	367	-	0.00%
System Benefits Charge		0.00743	328	0.00743	328	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(4)	(4)	0.00%
Energy Service Charge		0.06627	2,926	0.06627	2,926	-	0.00%
Distribution Impact Only		\$ 0.03529	\$ 1,558	\$ 0.03988	\$ 1,761	\$ 203	13.03%
Total Change		\$ 0.14061	\$ 6,208	\$ 0.14511	\$ 6,407	\$ 199	3.21%
Rate R - Load Control Service, 8 Hour No Switch							
Customer Charge							
Customer Charge	1,249	\$ 6.38	\$ 7,970	\$ 4.87	\$ 6,084	\$ (1,886)	-23.67%
Energy Charge All kWh	357,451						
Distribution		\$ 0.01241	\$ 4,436	\$ 0.02395	\$ 8,561	\$ 4,125	92.99%
Transmission		0.02331	8,332	0.02331	8,332	-	0.00%
Stranded Cost Recovery Charge		0.00831	2,970	0.00831	2,970	-	0.00%
System Benefits Charge		0.00743	2,656	0.00743	2,656	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(36)	(36)	0.00%
Energy Service Charge		0.06627	23,688	0.06627	23,688	-	0.00%
Distribution Impact Only		\$ 0.03471	\$ 12,406	\$ 0.04097	\$ 14,645	\$ 2,239	18.05%
Total Change		\$ 0.14002	\$ 50,052	\$ 0.14619	\$ 52,255	\$ 2,203	4.40%
Rate R - Load Control Service, 10/11 Hour Switch							
Customer Charge							
Customer Charge	60	\$ 6.99	\$ 419	\$ 4.87	\$ 292	\$ (127)	-30.33%
Energy Charge All kWh	13,784						
Distribution		\$ 0.02361	\$ 325	\$ 0.02395	\$ 330	\$ 5	1.44%
Transmission		0.02331	321	0.02331	321	-	0.00%
Stranded Cost Recovery Charge		0.00831	115	0.00831	115	-	0.00%
System Benefits Charge		0.00743	102	0.00743	102	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(1)	(1)	0.00%
Energy Service Charge		0.06627	913	0.06627	913	-	0.00%
Distribution Impact Only		\$ 0.05398	\$ 744	\$ 0.04512	\$ 622	\$ (122)	-16.40%
Total Change		\$ 0.15924	\$ 2,195	\$ 0.15032	\$ 2,072	\$ (123)	-5.60%
Rate R - Load Control Service, 10/11 Hour No Switch							
Customer Charge							
Customer Charge	1,070	\$ 6.38	\$ 6,827	\$ 4.87	\$ 5,211	\$ (1,616)	-23.67%
Energy Charge All kWh	265,564						
Distribution		\$ 0.02361	\$ 6,270	\$ 0.02395	\$ 6,360	\$ 90	1.44%
Transmission		0.02331	6,190	0.02331	6,190	-	0.00%
Stranded Cost Recovery Charge		0.00831	2,207	0.00831	2,207	-	0.00%
System Benefits Charge		0.00743	1,973	0.00743	1,973	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(27)	(27)	0.00%
Energy Service Charge		0.06627	17,599	0.06627	17,599	-	0.00%
Distribution Impact Only		\$ 0.04932	\$ 13,097	\$ 0.04357	\$ 11,571	\$ (1,526)	-11.65%
Total Change		\$ 0.15464	\$ 41,066	\$ 0.14879	\$ 39,513	\$ (1,553)	-3.78%

Comparison of Current vs Proposed
Permanent Rates

Rate R - Optional Time of Day

	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	466	\$ 32.08	\$ 14,936	\$ 32.08	\$ 14,936	\$ -	0.00%
Energy Charge On Peak kWh	153,613						
Distribution		\$ 0.15015	\$ 23,065	\$ 0.15079	\$ 23,163	\$ 98	0.42%
Transmission		0.03011	4,625	0.03011	4,625	-	0.00%
Stranded Cost Recovery Charge		0.01238	1,902	0.01238	1,902	-	0.00%
System Benefits Charge		0.00743	1,141	0.00743	1,141	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00018)	(28)	(28)	0.00%
Energy Service Charge		0.06627	10,180	0.06627	10,180	-	0.00%
Energy Charge Off Peak kWh	307,907						
Distribution		\$ 0.00818	\$ 2,519	\$ 0.00818	\$ 2,519	-	0.00%
Transmission		0.01966	6,053	0.01966	6,053	-	0.00%
Stranded Cost Recovery Charge		0.01238	3,812	0.01238	3,812	-	0.00%
System Benefits Charge		0.00743	2,288	0.00743	2,288	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00018)	(56)	(56)	0.00%
Energy Service Charge		0.06627	20,405	0.06627	20,405	-	0.00%
Distribution Impact Only		\$ 0.08780	\$ 40,520	\$ 0.08801	\$ 40,618	\$ 98	0.24%
Total Change		\$ 0.19701	\$ 90,926	\$ 0.19704	\$ 90,940	\$ 14	0.02%

Comparison of Current vs Proposed
Permanent Rates

Rate G - General Service

	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge 1 Phase	682,271	\$ 16.21	\$ 11,059,613	\$ 16.21	\$ 11,059,613	-	0.00%
Customer Charge 3 Phase	235,118	\$ 32.39	7,615,478	32.39	7,615,478	-	0.00%
Demand Charge >5 kW	4,060,918						
Distribution		\$ 11.49	\$ 46,659,948	\$ 11.70	\$ 47,512,741	852,793	1.83%
Transmission		7.77	31,553,333	7.77	31,553,333	-	0.00%
Stranded Cost Recovery Charge		1.14	4,629,447	1.14	4,629,447	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.06)	(243,941)	(243,941)	0.00%
Energy Charge < 500 kWh	273,389,497						
Distribution		\$ 0.02805	\$ 7,668,575	\$ 0.02805	\$ 7,668,575	-	0.00%
Transmission		0.02807	7,674,043	0.02807	7,674,043	-	0.00%
Stranded Cost Recovery Charge		0.01225	3,349,021	0.01225	3,349,021	-	0.00%
System Benefits Charge		0.00743	2,031,284	0.00743	2,031,284	-	0.00%
Energy Service Charge		0.06627	18,117,522	0.06627	18,117,522	-	0.00%
Energy Charge 501 - 1500 kWh	292,926,918						
Distribution		\$ 0.02268	\$ 6,643,583	\$ 0.02268	\$ 6,643,583	-	0.00%
Transmission		0.01056	3,093,308	0.01056	3,093,308	-	0.00%
Stranded Cost Recovery Charge		0.01225	3,588,355	0.01225	3,588,355	-	0.00%
System Benefits Charge		0.00743	2,176,447	0.00743	2,176,447	-	0.00%
Energy Service Charge		0.06627	19,412,267	0.06627	19,412,267	-	0.00%
Energy Charge >1500 kWh	1,149,505,765						
Distribution		\$ 0.01709	19,645,054	\$ 0.01709	19,645,054	-	0.00%
Transmission		0.00566	6,506,203	0.00566	6,506,203	-	0.00%
Stranded Cost Recovery Charge		0.01225	14,081,446	0.01225	14,081,446	-	0.00%
System Benefits Charge		0.00743	8,540,828	0.00743	8,540,828	-	0.00%
Energy Service Charge		0.06627	76,177,747	0.06627	76,177,747	-	0.00%
Distribution Impact Only		\$ 0.05787	99,292,251	\$ 0.05837	\$ 100,145,044	\$ 852,793	0.86%
Total Change		\$ 0.17497	300,223,502	\$ 0.17533	\$ 300,832,354	\$ 608,852	0.20%

Comparison of Current vs Proposed
Permanent Rates

Rate G - General Service Uncontrolled Water Heating

	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	15,246	\$ 4.87	\$ 74,248	\$ 4.87	\$ 74,248	\$ -	0.00%
Energy Charge All kWh	3,379,300						
Distribution		\$ 0.02361	\$ 79,785	\$ 0.02395	\$ 80,934	\$ 1,149	1.44%
Transmission		0.02331	78,771	0.02331	78,771	-	0.00%
Stranded Cost Recovery Charge		0.01542	52,109	0.01542	52,109	-	0.00%
System Benefits Charge		0.00743	25,108	0.00743	25,108	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(344)	(344)	0.00%
Energy Service Charge		0.06627	223,946	0.06627	223,946	-	0.00%
Distribution Impact Only		\$ 0.04558	\$ 154,033	\$ 0.04592	\$ 155,182	\$ 1,149	0.75%
Total Change		\$ 0.15801	\$ 533,967	\$ 0.15825	\$ 534,772	\$ 805	0.15%

Rate G - General Service Controlled Water Heating

Customer Charge							
Customer Charge	-	\$ 6.38	\$ -	\$ 4.87	\$ -	\$ -	-23.67%
Energy Charge All kWh	-						
Distribution		\$ 0.01241	\$ -	\$ 0.02395	\$ -	\$ -	92.99%
Transmission		0.02331	-	0.02331	-	-	0.00%
Stranded Cost Recovery Charge		0.00895	-	0.00895	-	-	0.00%
System Benefits Charge		0.00743	-	0.00743	-	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	-	-	0.00%
Energy Service Charge		0.06627	-	0.06627	-	-	0.00%
Distribution Impact Only			\$ -		\$ -	\$ -	
Total Change			\$ -		\$ -	\$ -	

Comparison of Current vs Proposed
Permanent Rates

Rate G - Space Heating

	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	5,015	\$ 3.24	\$ 16,248	\$ 3.24	\$ 16,248	\$ -	0.00%
Energy Charge All kWh	5,451,861						
Distribution		\$ 0.04088	\$ 222,872	\$ 0.04126	\$ 224,944	\$ 2,072	0.93%
Transmission		0.02807	153,034	0.02807	153,034	-	0.00%
Stranded Cost Recovery Charge		0.01930	105,221	0.01930	105,221	-	0.00%
System Benefits Charge		0.00743	40,507	0.00743	40,507	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00011)	(588)	(588)	0.00%
Energy Service Charge		0.06627	361,295	0.06627	361,295	-	0.00%
Distribution Impact Only		\$ 0.04386	\$ 239,120	\$ 0.04424	\$ 241,192	\$ 2,072	0.87%
Total		\$ 0.16493	\$ 899,177	\$ 0.16520	\$ 900,661	\$ 1,484	0.17%

Rate G - Optional Time of Day

Customer Charge							
Customer Charge 1 Phase	199	\$ 41.98	\$ 8,354	\$ 41.98	\$ 8,354	\$ -	0.00%
Customer Charge 3 Phase	261	\$ 60.00	15,636	60.00	15,636	-	0.00%
Demand Charge	10,801						
Distribution		\$ 14.92	\$ 161,151	\$ 15.13	\$ 163,419	\$ 2,268	1.41%
Transmission		5.12	55,301	5.12	55,301	-	0.00%
Stranded Cost Recovery Charge		0.58	6,265	0.58	6,265	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.06)	(649)	(649)	0.00%
Energy Charge On Peak kWh	323,044						
Distribution		\$ 0.05335	\$ 17,234	\$ 0.05335	\$ 17,234	\$ -	0.00%
Transmission		-	-	-	-	-	-
Stranded Cost Recovery Charge		0.00895	2,891	0.00895	2,891	-	0.00%
System Benefits Charge		0.00743	2,400	0.00743	2,400	-	0.00%
Energy Service Charge		0.06627	21,408	0.06627	21,408	-	0.00%
Energy Charge Off Peak kWh	532,915						
Distribution		\$ 0.00836	\$ 4,455	\$ 0.00836	\$ 4,455	\$ -	0.00%
Transmission		-	-	-	-	-	-
Stranded Cost Recovery Charge		0.00895	4,770	0.00895	4,770	-	0.00%
System Benefits Charge		0.00743	3,960	0.00743	3,960	-	0.00%
Energy Service Charge		0.06627	35,316	0.06627	35,316	-	0.00%
Distribution Impact Only		\$ 0.24164	\$ 206,830	\$ 0.24429	\$ 209,098	\$ 2,268	1.10%
Total Change		\$ 0.39621	\$ 339,141	\$ 0.39810	\$ 340,760	\$ 1,619	0.48%

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Comparison of Current vs Proposed Permanent Rates							
Rate G - Load Control Service, Radio Controlled	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	2,298	\$ 6.99	\$ 16,063	\$ 6.99	\$ 16,063	\$ -	0.00%
Energy Charge All kWh	4,365,538						
Distribution		\$ 0.01241	\$ 54,176	\$ 0.01275	\$ 55,661	\$ 1,485	2.74%
Transmission		0.02331	101,761	0.02331	101,761	-	0.00%
Stranded Cost Recovery Charge		0.00895	39,072	0.00895	39,072	-	0.00%
System Benefits Charge		0.00743	32,436	0.00743	32,436	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(445)	(445)	0.00%
Energy Service Charge		0.06627	289,304	0.06627	289,304	-	0.00%
Distribution Impact Only		\$ 0.01609	\$ 70,239	\$ 0.01643	\$ 71,724	\$ 1,485	2.11%
Total Change		\$ 0.12205	\$ 532,812	\$ 0.12229	\$ 533,852	\$ 1,040	0.20%
Rate G - Load Control Service, 8 Hour No Switch							
Customer Charge							
Customer Charge	72	\$ 6.38	\$ 459	\$ 4.87	\$ 351	\$ (108)	-23.67%
Energy Charge All kWh	68,521						
Distribution		\$ 0.01241	\$ 850	\$ 0.02395	\$ 1,641	\$ 791	92.99%
Transmission		0.02331	1,597	0.02331	1,597	-	0.00%
Stranded Cost Recovery Charge		0.00895	613	0.00895	613	-	0.00%
System Benefits Charge		0.00743	509	0.00743	509	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(7)	(7)	0.00%
Energy Service Charge		0.06627	4,541	0.06627	4,541	-	0.00%
Distribution Impact Only		\$ 0.01910	\$ 1,309	\$ 0.02907	\$ 1,992	\$ 683	52.18%
Total Change		\$ 0.12506	\$ 8,569	\$ 0.13492	\$ 9,245	\$ 676	7.89%
Rate G - Load Control Service, 8 Hour Switch							
Customer Charge							
Customer Charge	0	\$ 6.99	\$ -	\$ 4.87	\$ -	\$ -	-30.33%
Energy Charge All kWh	0						
Distribution		\$ 0.01241	\$ -	\$ 0.02395	\$ -	\$ -	92.99%
Transmission		0.02331	-	0.02331	-	-	0.00%
Stranded Cost Recovery Charge		0.00895	-	0.00895	-	-	0.00%
System Benefits Charge		0.00743	-	0.00743	-	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	-	-	0.00%
Energy Service Charge		0.06627	-	0.06627	-	-	0.00%
Distribution Impact Only			\$ -		\$ -	\$ -	
Total Change			\$ -		\$ -	\$ -	
Rate G - Load Control Service, 10/11 Hour Switch							
Customer Charge							
Customer Charge	0	\$ 6.99	\$ -	\$ 4.87	\$ -	\$ -	-30.33%
Energy Charge All kWh	0						
Distribution		\$ 0.02361	\$ -	\$ 0.02395	\$ -	\$ -	1.44%
Transmission		0.02331	-	0.02331	-	-	0.00%
Stranded Cost Recovery Charge		0.00895	-	0.00895	-	-	0.00%
System Benefits Charge		0.00743	-	0.00743	-	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	-	-	0.00%
Energy Service Charge		0.06627	-	0.06627	-	-	0.00%
Distribution Impact Only			\$ -		\$ -	\$ -	
Total Change			\$ -		\$ -	\$ -	
Rate G - Load Control Service, 10/11 Hour No Switch							
Customer Charge							
Customer Charge	24	\$ 6.38	\$ 153	\$ 4.87	\$ 117	\$ (36)	-23.67%
Energy Charge All kWh	75,820						
Distribution		\$ 0.02361	\$ 1,790	\$ 0.02395	\$ 1,816	\$ 26	1.44%
Transmission		0.02331	1,767	0.02331	1,767	-	0.00%
Stranded Cost Recovery Charge		0.00895	679	0.00895	679	-	0.00%
System Benefits Charge		0.00743	563	0.00743	563	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00010)	(8)	(8)	0.00%
Energy Service Charge		0.06627	5,025	0.06627	5,025	-	0.00%
Distribution Impact Only		\$ 0.02563	\$ 1,943	\$ 0.02549	\$ 1,933	\$ (10)	-0.51%
Total Change		\$ 0.13159	\$ 9,977	\$ 0.13135	\$ 9,959	\$ (18)	-0.18%

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Comparison of Current vs Proposed Permanent Rates							
Rate GV	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	16,601	\$ 211.21	\$ 3,506,255	\$ 211.21	\$ 3,506,255	\$ -	0.00%
Demand 1-100 kW	1,568,428						
Distribution		\$ 6.90	\$ 10,822,153	\$ 6.99	\$ 10,963,312	\$ 141,159	1.30%
Transmission		10.40	16,311,651	10.40	16,311,651	-	0.00%
Stranded Cost Recovery Charge		1.00	1,568,428	1.00	1,568,428	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.02)	(39,083)	(39,083)	0.00%
Demand > 100 kW	2,667,694						
Distribution		\$ 6.64	\$ 17,713,488	\$ 6.73	\$ 17,953,581	\$ 240,093	1.36%
Transmission		10.40	27,744,018	10.40	27,744,018	-	0.00%
Stranded Cost Recovery Charge		1.00	2,667,694	1.00	2,667,694	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.02)	(66,475)	(66,475)	0.00%
Minimum Charge	123	\$ 1,062.00	\$ 130,894	\$ 1,062.00	\$ 130,894	\$ -	0.00%
Energy Charge 1 - 200,000 kWh	1,448,276,753						
Distribution		\$ 0.00656	\$ 9,500,695	\$ 0.00656	\$ 9,500,695	\$ -	0.00%
Transmission		-	-	-	-	-	-
Stranded Cost Recovery Charge		0.00987	14,294,492	0.00987	14,294,492	-	0.00%
System Benefits Charge		0.00743	10,760,696	0.00743	10,760,696	-	0.00%
Energy Service Charge		0.06697	96,991,094	0.06697	96,991,094	-	0.00%
Energy Charge >200,000 kWh	217,399,074						
Distribution		\$ 0.00583	\$ 1,267,437	\$ 0.00583	\$ 1,267,437	\$ -	0.00%
Transmission		-	-	-	-	-	-
Stranded Cost Recovery Charge		0.00987	2,145,729	0.00987	2,145,729	-	0.00%
System Benefits Charge		0.00743	1,615,275	0.00743	1,615,275	-	0.00%
Energy Service Charge		0.06697	14,559,216	0.06697	14,559,216	-	0.00%
Distribution Impact Only		\$ 0.02578	\$ 42,940,922	\$ 0.02601	\$ 43,322,174	\$ 381,252	0.89%
Total Charge		\$ 0.13904	\$231,599,215	\$ 0.13921	\$231,874,909	\$ 275,694	0.12%
Rate GV - Backup Service < 115 KV							
Administrative Charge	108	\$ 372.10	\$ 40,187	\$ 372.10	\$ 40,187	\$ -	0.00%
Translation Charge	39	\$ 62.42	\$ 2,434	62.42	\$ 2,434	\$ -	0.00%
Demand Charge	35,399						
Distribution		\$ 5.37	\$ 190,093	\$ 5.42	\$ 191,863	\$ 1,770	0.93%
Transmission		1.59	56,284	1.59	56,284	-	0.00%
Stranded Cost Recovery Charge		0.49	17,346	0.49	17,346	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.01)	(529)	(529)	0.00%
Energy Charge 1 - 200,000 kWh	2,778,333						
Distribution		\$ 0.00656	\$ 18,226	\$ 0.00656	\$ 18,226	\$ -	0.00%
Transmission		-	-	-	-	-	-
Stranded Cost Recovery Charge		0.00987	27,422	0.00987	27,422	-	0.00%
System Benefits Charge		0.00743	20,643	0.00743	20,643	-	0.00%
Energy Service Charge		0.06697	186,065	0.06697	186,065	-	0.00%
Energy Charge >200,000 kWh	0						
Distribution		\$ 0.00583	\$ -	\$ 0.00583	\$ -	\$ -	0.00%
Transmission		-	-	-	-	-	-
Stranded Cost Recovery Charge		0.00987	-	0.00987	-	-	0.00%
System Benefits Charge		0.00743	-	0.00743	-	-	0.00%
Energy Service Charge		0.06697	-	0.06697	-	-	0.00%
Distribution Impact Only		\$ 0.09032	\$ 250,940	\$ 0.09096	\$ 252,710	\$ 1,770	0.71%
Total Charge		\$ 0.20109	\$ 558,700	\$ 0.20154	\$ 559,941	\$ 1,241	0.22%
Rate GV - Backup Service > 115 KV							
Administrative Charge	-	\$ 372.10	\$ -	\$ 372.10	\$ -	\$ -	0.00%
Translation Charge	-	\$ 62.42	\$ -	62.42	\$ -	\$ -	0.00%
Demand Charge	-						
Transmission		1.59	-	1.59	-	-	0.00%
Stranded Cost Recovery Charge		0.49	-	0.49	-	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.01)	-	-	0.00%
Energy Charge On Peak	-						
Transmission		-	-	-	-	-	0.00%
Stranded Cost Recovery Charge		0.00256	-	0.00256	-	-	0.00%
System Benefits Charge		0.00586	-	0.00586	-	-	0.00%
Energy Service Charge		0.12222	-	0.12222	-	-	0.00%
Energy Charge Off Peak	-						
Transmission		-	-	-	-	-	0.00%
Stranded Cost Recovery Charge		0.00171	-	0.00171	-	-	0.00%
System Benefits Charge		0.00586	-	0.00586	-	-	0.00%
Energy Service Charge		0.12222	-	0.12222	-	-	0.00%
Distribution Impact Only		\$ -	\$ -	\$ -	\$ -	\$ -	-
Total Charge		\$ -	\$ -	\$ -	\$ -	\$ -	-

**Comparison of Current vs Proposed
Permanent Rates**

Rate LG	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Customer Charge							
Customer Charge	1,272	\$ 660.15	\$ 839,711	\$ 660.15	\$ 839,711	\$ -	0.00%
Demand	2,661,538						
Distribution		\$ 5.85	\$ 15,569,997	\$ 5.92	\$ 15,756,305	\$ 186,308	1.20%
Transmission		10.24	27,254,149	10.24	27,254,149	-	0.00%
Stranded Cost Recovery Charge		0.61	1,623,538	0.61	1,623,538	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.02)	(54,905)	(54,905)	0.00%
Minimum Charge	0	\$ 1,126.00	\$ -	\$ 1,126.00	\$ -	\$ -	0.00%
Discount for above 115kV	0	\$ (0.51)	\$ -	\$ (0.51)	\$ -	\$ -	0.00%
Energy Charge On Peak	510,025,661						
Distribution		\$ 0.00554	\$ 2,825,542	\$ 0.00554	\$ 2,825,542	\$ -	0.00%
Transmission		-	-	-	-	-	0.00%
Stranded Cost Recovery Charge		0.00616	3,141,758	0.00616	3,141,758	-	0.00%
System Benefits Charge		0.00743	3,789,491	0.00743	3,789,491	-	0.00%
Energy Service Charge		0.06697	34,156,419	0.06697	34,156,419	-	0.00%
Energy Charge Off Peak	662,413,106						
Distribution		\$ 0.00468	\$ 3,100,093	\$ 0.00468	\$ 3,100,093	\$ -	0.00%
Transmission		-	-	-	-	-	0.00%
Stranded Cost Recovery Charge		0.00439	2,907,994	0.00439	2,907,994	-	0.00%
System Benefits Charge		0.00743	4,921,729	0.00743	4,921,729	-	0.00%
Energy Service Charge		0.06697	44,361,806	0.06697	44,361,806	-	0.00%
Distribution Impact Only		\$ 0.01905	\$ 22,335,343	\$ 0.01921	\$ 22,521,651	\$ 186,308	0.83%
Total Charge		\$ 0.12324	\$144,492,227	\$ 0.12335	\$144,623,630	\$ 131,403	0.09%
Rate LG - Backup Service < 115 KV							
Administrative Charge	109	\$ 372.10	\$ 40,633	\$ 372.10	\$ 40,633	\$ -	0.00%
Translation Charge	26	\$ 62.42	\$ 1,623	\$ 62.42	\$ 1,623	\$ -	0.00%
Demand Charge	260,477						
Distribution		\$ 5.37	\$ 1,398,761	\$ 5.42	\$ 1,411,785	\$ 13,024	0.93%
Transmission		1.59	414,158	1.59	414,158	-	0.00%
Stranded Cost Recovery Charge		0.30	78,143	0.30	78,143	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.01)	(3,894)	(3,894)	0.00%
Energy Charge On Peak	6,651,595						
Distribution		\$ 0.00554	\$ 36,850	\$ 0.00554	\$ 36,850	\$ -	0.00%
Transmission		-	-	-	-	-	0.00%
Stranded Cost Recovery Charge		0.00616	40,974	0.00616	40,974	-	0.00%
System Benefits Charge		0.00743	49,421	0.00743	49,421	-	0.00%
Energy Service Charge		0.06697	445,457	0.06697	445,457	-	0.00%
Energy Charge Off Peak	8,704,697						
Distribution		\$ 0.00468	\$ 40,738	\$ 0.00468	\$ 40,738	\$ -	0.00%
Transmission		-	-	-	-	-	0.00%
Stranded Cost Recovery Charge		0.00439	38,214	0.00439	38,214	-	0.00%
System Benefits Charge		0.00743	64,676	0.00743	64,676	-	0.00%
Energy Service Charge		0.06697	582,954	0.06697	582,954	-	0.00%
Distribution Impact Only		\$ 0.09889	\$ 1,518,605	\$ 0.09974	\$ 1,531,629	\$ 13,024	0.86%
Total Charge		\$ 0.21051	\$ 3,232,602	\$ 0.21110	\$ 3,241,732	\$ 9,130	0.28%
Rate LG - Backup Service > 115 KV							
Administrative Charge	80	\$ 372.10	\$ 29,915	\$ 372.10	\$ 29,915	\$ -	0.00%
Translation Charge	-	\$ 62.42	\$ -	\$ 62.42	\$ -	\$ -	0.00%
Demand Charge	913,528						
Transmission		1.59	\$ 1,452,510	1.59	\$ 1,452,510	-	0.00%
Stranded Cost Recovery Charge		0.30	274,058	0.30	274,058	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.01)	(13,658)	(13,658)	0.00%
Energy Charge On Peak	21,134,611						
Transmission		-	\$ -	-	\$ -	-	0.00%
Stranded Cost Recovery Charge		0.00616	130,189	0.00616	130,189	-	0.00%
System Benefits Charge		0.00743	157,030	0.00743	157,030	-	0.00%
Energy Service Charge		0.06697	1,415,385	0.06697	1,415,385	-	0.00%
Energy Charge Off Peak	43,853,801						
Transmission		-	\$ -	-	\$ -	-	0.00%
Stranded Cost Recovery Charge		0.00439	192,518	0.00439	192,518	-	0.00%
System Benefits Charge		0.00743	325,834	0.00743	325,834	-	0.00%
Energy Service Charge		0.06697	2,936,889	0.06697	2,936,889	-	0.00%
Distribution Impact Only		\$ 0.00046	\$ 29,915	\$ 0.00046	\$ 29,915	\$ -	0.00%
Total Charge		\$ 0.10639	\$ 6,914,328	\$ 0.10618	\$ 6,900,670	\$ (13,658)	-0.20%

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SUMMARY OF CURRENT AND PROPOSED DISTRIBUTION RATES

Energy Efficient Outdoor Lighting Service Rate EOL

			Current Rates (01/01/21)	Proposed Rates (08/01/21)	Percent Change
	<u>Lumens</u>	<u>Watts</u>			
High Pressure Sodium	4,000	50	\$ 6.31	\$ 6.34	0.60%
	5,800	70	6.61	6.65	0.57%
	9,500	100	7.04	7.07	0.54%
	16,000	150	7.69	7.73	0.49%
	30,000	250	8.92	8.96	0.42%
	50,000	400	10.62	10.66	0.36%
	130,000	1,000	17.30	17.33	0.22%
Metal Halide	5,000	70	6.63	6.67	0.57%
	8,000	100	6.97	7.01	0.54%
	13,000	150	7.70	7.74	0.49%
	13,500	175	7.87	7.91	0.48%
	20,000	250	8.74	8.78	0.43%
	36,000	400	10.45	10.49	0.36%
	100,000	1,000	17.12	17.15	0.22%
LED's and other technologies accepted by the Company					
	Per fixture charge		3.20	3.24	1.18%
	Per watt charge		\$ 0.01058	\$ 0.01058	0.00%

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Comparison of Current vs Proposed Permanent Rates							
Rate OL - Outdoor Lighting	(A) Billing Determinants	(B) Current Rate	(C) = (A) x (B) Current Revenues	(D) Proposed Rate	(E) = (A) x (D) Proposed Revenues	(F) = (E) - (C) Proposed vs. Current Difference	(G) = (F) / (C) % Chg
Energy Charge All kWh	17,130,466						
Transmission		\$ 0.02058	\$ 352,545	\$ 0.02058	\$ 352,545	\$ -	0.00%
Stranded Cost Recovery Charge		0.01990	340,896	0.01990	340,896	-	0.00%
System Benefits Charge		0.00743	127,279	0.00743	127,279	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00056)	(9,632)	(9,632)	0.00%
Energy Service Charge		0.06627	1,135,236	0.06627	1,135,236	-	0.00%
Total		\$ 0.11418	\$ 1,955,956	\$ 0.11362	\$ 1,946,324	\$ (9,632)	-0.49%
Distribution Charge (per fixture)							
4000 LUMEN HP SODIUM	42,792	\$ 15.42	\$ 660,025	\$ 15.56	\$ 665,729	\$ 5,704	0.86%
5800 LUMEN HP SODIUM	7,260	15.42	111,979	15.56	112,946	967	0.86%
9500 LUMEN HP SODIUM	10,692	20.51	219,295	20.69	221,190	1,895	0.86%
16000 LUMEN HP SODIUM	9,936	29.01	288,209	29.26	290,700	2,491	0.86%
30000 LUMEN HP SODIUM	15,480	29.73	460,183	29.98	464,159	3,976	0.86%
50000 LUMEN HP SODIUM	22,860	30.06	687,145	30.32	693,083	5,938	0.86%
130000 LUMEN HP SODIUM	3,684	48.24	177,717	48.66	179,253	1,536	0.86%
5000 LUMEN METAL HALIDE	2,700	16.09	43,434	16.23	43,809	375	0.86%
8000 LUMEN METAL HALIDE	1,608	22.02	35,409	22.21	35,715	306	0.86%
13000 LUMEN METAL HALIDE	-	30.21	-	30.48	-	-	0.86%
13500 LUMEN METAL HALIDE	1,464	30.86	45,176	31.12	45,566	390	0.86%
20000 LUMEN METAL HALIDE	3,696	30.86	114,050	31.12	115,036	986	0.86%
36000 LUMEN METAL HALIDE	5,136	31.14	159,937	31.41	161,319	1,382	0.86%
100000 LUMEN METAL HALIDE	3,216	46.68	150,127	47.08	151,424	1,297	0.86%
600 LUMEN INCANDESCENT	1,068	8.89	9,490	8.96	9,572	82	0.86%
1000 LUMEN INCANDESCENT	2,844	9.92	28,209	10.00	28,453	244	0.86%
2500 LUMEN INCANDESCENT	48	12.73	611	12.84	616	5	0.82%
6000 LUMEN INCANDESCENT	-	21.86	-	22.05	-	-	0.86%
3500 LUMEN MERCURY	59,064	13.60	803,388	13.72	810,331	6,943	0.86%
7000 LUMEN MERCURY	11,472	16.37	187,787	16.51	189,410	1,623	0.86%
11000 LUMEN MERCURY	684	20.24	13,842	20.41	13,962	120	0.87%
15000 LUMEN MERCURY	36	23.15	833	23.35	841	8	0.96%
20000 LUMEN MERCURY	5,088	24.99	127,160	25.21	128,259	1,099	0.86%
56000 LUMEN MERCURY	1,632	39.72	64,830	40.07	65,391	561	0.87%
20000 LUMEN FLUORESCENT	24	33.90	814	34.19	821	7	0.86%
12000 LUMEN HP SODIUM	96	21.21	2,036	21.40	2,054	18	0.88%
34200 LUMEN HP SODIUM	60	27.16	1,629	27.39	1,643	14	0.86%
Average Number of Fixtures/Month	17,720						
Distribution Impact Only		\$ 0.25646	\$ 4,393,315	\$ 0.25868	\$ 4,431,282	\$ 37,967	0.86%
Total Charge		\$ 0.37064	\$ 6,349,271	\$ 0.37230	\$ 6,377,606	\$ 28,335	0.45%
Rate EOL - Efficient Outdoor Lighting							
Energy Charge All kWh	11,370,898						
Transmission		\$ 0.02058	\$ 234,013	\$ 0.02058	\$ 234,013	\$ -	0.00%
Stranded Cost Recovery Charge		0.01990	226,281	0.01990	226,281	-	0.00%
System Benefits Charge		0.00743	84,486	0.00743	84,486	-	0.00%
Regulatory Reconciliation Adjustment		-	-	(0.00056)	(6,394)	(6,394)	0.00%
Energy Service Charge		0.06627	753,549	0.06627	753,549	-	0.00%
Total			\$ 1,298,329		\$ 1,291,935	\$ (6,394)	-0.49%
Distribution Charge (per fixture)							
4000 LUMEN HP SODIUM	45,216	\$ 6.31	\$ 285,145	\$ 6.34	\$ 286,857	\$ 1,712	0.60%
5800 LUMEN HP SODIUM	2,616	6.61	17,300	6.65	17,399	99	0.57%
9500 LUMEN HP SODIUM	4,272	7.04	30,058	7.07	30,220	162	0.54%
16000 LUMEN HP SODIUM	6,648	7.69	51,136	7.73	51,387	251	0.49%
30000 LUMEN HP SODIUM	20,784	8.92	185,368	8.96	186,155	787	0.42%
50000 LUMEN HP SODIUM	1,584	10.62	16,825	10.66	16,885	60	0.36%
130000 LUMEN HP SODIUM	684	17.30	11,830	17.33	11,856	26	0.22%
5000 LUMEN METAL HALIDE	9,984	6.63	66,236	6.67	66,613	377	0.57%
8000 LUMEN METAL HALIDE	1,152	6.97	8,032	7.01	8,076	44	0.55%
13000 LUMEN METAL HALIDE	-	7.70	-	7.74	-	-	0.49%
13500 LUMEN METAL HALIDE	1,056	7.87	8,313	7.91	8,352	39	0.47%
20000 LUMEN METAL HALIDE	840	8.74	7,341	8.78	7,373	32	0.44%
36000 LUMEN METAL HALIDE	528	10.45	5,519	10.49	5,539	20	0.36%
100000 LUMEN METAL HALIDE	1,236	17.12	21,155	17.15	21,202	47	0.22%
LEDs	388,872	3.20	1,243,633	3.24	1,258,349	14,716	1.18%
Average Number of Fixtures/Month	40,456						
Distribution Charge (per Watt)	388,872						
LEDs	15,894,084	\$ 0.01058	\$ 168,111	\$ 0.01058	\$ 168,111	\$ -	0.00%
Distribution Impact Only		\$ 0.18697	\$ 2,126,002	\$ 0.18858	\$ 2,144,374	\$ 18,372	0.86%
Total Charge		\$ 0.30115	\$ 3,424,331	\$ 0.30220	\$ 3,436,309	\$ 11,978	0.35%

STREET LIGHTING DISTRIBUTION RATE DESIGN

Distribution Breakout by Component

	Rate EOL		Rate OL	
Total Fixtures	A	40,456	E	17,720
	Aa - Non-LED	8,050	Ea - Non-LED	17,720
	Ab - LED	32,406	Eb - LED	-
Connected Demand KW	B	2,619	F	3,947
Annual kWh	C	11,370,898	G	17,130,466
Proposed Distribution Revenue	D	\$ 2,144,374	H	\$ 4,431,282
Distribution by Category				
1) D - System Demand				
Revenue \$	I	\$ 332,442	K = J* F* 12* 1000	\$501,029
Charge Per Watt	J = I / B / 1000 / 12	0.01058	L = K / F	0.01058
2) D - System Customer				
Revenue \$	M = D - Q - I	\$1,436,365	O = N* E* 12* 1000	\$629,137
Charge Per Fixture	N = M / A	\$2.96	P = O / E	\$2.96
3) D - Operations & Maintenance				
Revenue \$	Q = R*Aa*12 + S*Ab*12	\$375,567	T = U*Ea*12 + V*Eb*12	\$589,433
Charge Per Fixture Non-LED	R	\$2.77	U = R	\$2.77
LED = 10% of Non-LED	S	\$0.28	V = S	\$0.28
4) D - Equipment				
Revenue \$			W = H- K- O- T	\$ 2,711,683
Total D		\$2,144,374		\$4,431,282

Note: A, B, C, D - See ELM/JAU-2, page 25.
E, F, G, H - See ELM/JAU-2, page 26.
I - See Application Attachment AN-1, page 3, lines 41 and 42.
R - See ELM/JAU-2, page 23, line 28.
S - See ELM/JAU-2, page 23, line 30.

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Street Lighting Operations & Maintenance

Charge Per Fixture

Source

Test Year Street Lighting O & M	\$965,000	A = ELM/JAU-2, page 24, line 26
<u>Non-LED Fixtures</u>		
Rate EOL	8,050	B = ELM/JAU-2, page 25, lines 38 & 41
Rate OL	17,720	C = ELM/JAU-2, page 26, line 66
Total Non-LED	25,770	D = B + C
<u>LED Fixtures</u>		
Rate EOL	32,406	E = ELM/JAU-2, page 25, line 38
Rate OL	-	F = ELM/JAU-2, page 26, lines 36-41
Total LED	32,406	G = E + F
Average Cost Per Fixture	\$2.77	$H = A / (D+G*10\%) / 12$
Non-LED Monthly Charge Per Fixture	\$2.77	I = H
LED Monthly Charge Per Fixture	\$0.28	J = H * 10%

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Street Lighting Operations & Maintenance Expense

Distribution Expense			
	<u>Operation</u>	<u>Maintenance</u>	<u>Total</u>
Supervision and Engineering	444	2	446
Street Lighting	519	52	571
Other	67	277	345
Total Distribution Expense	1,031	331	1,362

Street Lighting Expense			
	<u>Operation</u>	<u>Maintenance</u>	<u>Total</u>
Derived Supervision and Engineering	393	0	393
Street Lighting	519	52	571
Total Distribution Expense	912	53	965

Street Lighting EOL- Efficient Outdoor Lighting

Unbundled Rate Calculation

High Pressure Sodium																								
		TY Fixtures			Connected Demand	kWh per Fixture			Annual kWh			Current Distribution		Step Adj.	Distribution Bundled			Proposed Distribution Unbundled (A)						
		All	Mid-			All	Mid-		All	Mid-		Rate	Revenue		Rate	Revenue	% Chg	Customer	Demand	O&M	Monthly	Annual	% Chg	
	Watts	Lumens	Night	night	Total	KW	Night	night	Night	night	Total													
17	58	4,000	3,753	15	3,768	219	252	117	945,756	1,755	947,511	\$6.31	\$ 285,145	\$0.05	\$6.36	\$ 287,609	0.9%	2.96	133,780	\$ 0.61	\$2.77	\$6.34	\$ 286,857	0.6%
18	87	5,800	218		218	19	376		81,968		81,968	6.61	17,300	\$0.06	\$6.67	17,449	0.9%	2.96	7,740	0.92	2.77	\$6.65	\$ 17,399	0.6%
19	127	9,500	356		356	45	550		195,800		195,800	7.04	30,058	\$0.06	\$7.10	30,318	0.9%	2.96	12,640	1.34	2.77	\$7.07	\$ 30,220	0.5%
20	189	16,000	554	-	554	105	821	379	454,834	-	454,834	7.69	51,136	\$0.07	\$7.76	51,577	0.9%	2.96	19,669	2.00	2.77	\$7.73	\$ 51,387	0.5%
21	305	30,000	1,731	1	1,732	528	1326	614	2,295,306	614	2,295,920	8.92	185,368	\$0.08	\$9.00	186,970	0.9%	2.96	61,494	3.23	2.77	\$8.96	\$ 186,155	0.4%
22	466	50,000	132		132	62	2026		267,432		267,432	10.62	16,825	\$0.09	\$10.71	16,970	0.9%	2.96	4,687	4.93	2.77	\$10.66	\$ 16,885	0.4%
23	1097	130,000	57		57	63	4765		271,605		271,605	17.30	11,830	\$0.15	\$17.45	11,933	0.9%	2.96	2,024	11.60	2.77	\$17.33	\$ 11,856	0.2%
Metal Halide																								
27	89	5,000	832		832	74	386		321,152		321,152	\$6.63	\$ 66,236	\$0.06	6.69	\$ 66,808	0.9%	2.96	29,540	0.94	2.77	\$6.67	\$ 66,613	0.6%
28	121	8,000	96		96	12	527		50,592		50,592	6.97	8,032	\$0.06	7.03	8,102	0.9%	2.96	3,408	1.28	2.77	\$7.01	\$ 8,076	0.5%
29	190	13,000	-		-	-	825		-		-	7.70	-	\$0.07	7.77	-		2.96	-	2.01	2.77	\$7.74	\$ -	0.5%
30	206	13,500	88		88	18	896		78,848		78,848	7.87	8,313	\$0.07	7.94	8,384	0.9%	2.96	3,124	2.18	2.77	\$7.91	\$ 8,352	0.5%
31	288	20,000	70		70	20	1251		87,570		87,570	8.74	7,341	\$0.08	8.81	7,404	0.9%	2.96	2,485	3.05	2.77	\$8.78	\$ 7,373	0.4%
32	450	36,000	44		44	20	1956		86,064		86,064	10.45	5,519	\$0.09	10.54	5,567	0.9%	2.96	1,562	4.76	2.77	\$10.49	\$ 5,539	0.4%
33	1080	100,000	103		103	111	4692		483,276		483,276	17.12	21,155	\$0.15	17.26	21,338	0.9%	2.96	3,657	11.42	2.77	\$17.15	\$ 21,202	0.2%
Light Emitting Diodes (LED)																								
38	Various		32,367	39	32,406				-		-	\$3.20	\$ 1,243,633	\$0.03	3.23	\$ 1,254,380	0.9%	2.96	1,150,555		0.28	\$3.24	\$ 1,258,349	1.2%
40	Demand		1,321,662	2,845	1,324,507	1,325	4345	2005	5,742,621	5,704	5,748,326	\$0.01058	168,111	\$0.00009	0.01067	169,564	0.9%						\$ 168,111	0.0%
41	Total EOL		40,401	55	40,456	2,619			11,362,824	8,073	11,370,898		\$ 2,126,002			\$ 2,144,374			1,436,365				\$ 2,144,374	0.9%

Note: A - Distribution Component Source:
Customer - See ELM/JAU-2, page 22, line 39
Demand - See ELM/JAU-2, page 22, line 34
O&M - See ELM/JAU-2, page 22, line 44 & 45

Street Lighting Rate OL - Outdoor Lighting

Unbundled Rate Calculation

High Pressure Sodium			TY Average Fixtures			Annual kWh per Fixture		Connected	Annual kWh			Current Dist Only		Step Adj.	Distribution Bundled			Proposed Distribution Unbundled (A)						
14	Connected		All	Mid		All	Mid	Demand				Monthly	Annual					Cust	Demand	O&M	Equip	Monthly	Annual	
15	Watts	Lumens	Night	Night	Total	Night	Night	KW	All Night	Midnight	Total	Rate	Revenue	0.86%	Rate	Revenue	% Chg	2.96	0.01058	\$2.77	ment	Rate	Revenue	% Chg
16	58	4,000	3,566	-	3,566	252	117	207	898,632	-	898,632	\$15.42	\$ 660,025	\$0.13	\$15.56	\$ 665,729	0.9%	\$2.96	\$0.61	\$2.77	\$9.21	\$15.56	\$ 665,729	0.9%
17	87	5,800	605	-	605	376	174	53	227,480	-	227,480	15.42	111,979	0.13	\$15.56	112,946	0.9%	2.96	0.92	2.77	8.91	\$15.56	112,946	0.9%
18	127	9,500	889	2	891	550	255	113	488,950	510	489,460	20.51	219,295	0.18	\$20.69	221,190	0.9%	2.96	1.34	2.77	13.61	\$20.69	221,190	0.9%
19	189	16,000	825	3	828	821	379	156	677,325	1,137	678,462	29.01	288,209	0.25	\$29.26	290,700	0.9%	2.96	2.00	2.77	21.53	\$29.26	290,700	0.9%
20	305	30,000	1,289	1	1,290	1,326	614	393	1,709,214	614	1,709,828	29.73	460,183	0.26	\$29.98	464,159	0.9%	2.96	3.23	2.77	21.03	\$29.98	464,159	0.9%
21	466	50,000	1,902	3	1,905	2,026	937	888	3,853,452	2,811	3,856,263	30.06	687,145	0.26	\$30.32	693,083	0.9%	2.96	4.93	2.77	19.66	\$30.32	693,083	0.9%
22	1,097	130,000	306	1	307	4,765	2,199	337	1,458,090	2,199	1,460,289	48.24	177,717	0.42	\$48.66	179,253	0.9%	2.96	11.60	2.77	31.32	\$48.66	179,253	0.9%
23																								
24																								
25	Metal Halide																							
26	89	5,000	225	-	225	386	178	20	86,850	-	86,850	\$16.09	\$ 43,434	0.14	\$16.23	\$ 43,809	0.9%	\$2.96	\$0.94	\$2.77	\$9.55	\$16.23	\$ 43,809	0.9%
27	121	8,000	133	1	134	527	243	16	70,091	243	70,334	22.02	35,409	0.19	\$22.21	35,715	0.9%	2.96	1.28	2.77	15.20	\$22.21	35,715	0.9%
28	190	13,000	-	-	-	825	382	-	-	-	-	30.21	-	0.26	\$30.48	-	0.9%	2.96	2.01	2.77	22.74	\$30.48	-	0.9%
29	206	13,500	119	3	122	896	414	25	106,624	1,242	107,866	30.86	45,176	0.27	\$31.12	45,566	0.9%	2.96	2.18	2.77	23.21	\$31.12	45,566	0.9%
30	288	20,000	305	3	308	1,251	578	89	381,555	1,734	383,289	30.86	114,050	0.27	\$31.12	115,036	0.9%	2.96	3.05	2.77	22.35	\$31.12	115,036	0.9%
31	450	36,000	422	6	428	1,956	902	193	825,432	5,412	830,844	31.14	159,937	0.27	\$31.41	161,319	0.9%	2.96	4.76	2.77	20.92	\$31.41	161,319	0.9%
32	1,080	100,000	266	2	268	4,692	2,165	289	1,248,072	4,330	1,252,402	46.68	150,127	0.40	\$47.08	151,424	0.9%	2.96	11.42	2.77	29.93	\$47.08	151,424	0.9%
33																								
34																								
35	Light-Emitting Diode (LED)																							
36	28	2,500				122						\$10.18		\$0.09	\$10.27		0.9%	\$2.96	\$0.30	\$0.28	\$6.74	\$10.27		
37	36	4,100				156						\$10.16		\$0.09	\$10.25		0.9%	2.96	0.38	0.28	6.63	10.25		
38	51	4,800				222						\$10.32		\$0.09	\$10.41		0.9%	2.96	0.54	0.28	6.63	10.41		
39	92	8,500				400						\$11.35		\$0.10	\$11.45		0.9%	2.96	0.97	0.28	7.24	11.45		
40	142	13,300				617						\$12.54		\$0.11	\$12.65		0.9%	2.96	1.50	0.28	7.91	12.65		
41	220	24,500				956						\$15.72		\$0.14	\$15.86		0.9%	2.96	2.33	0.28	10.29	15.86		
42																								
43																								
44	Incandescent																							
45	105	600	89		89	456		9	40,584		40,584	\$8.89	\$ 9,490	0.08	\$8.96	\$ 9,572	0.9%	\$2.96	\$1.11	\$2.77	\$2.12	\$8.96	\$ 9,572	0.9%
46	105	1,000	237		237	456		25	108,072		108,072	9.92	28,209	0.09	\$10.00	28,453	0.9%	2.96	1.11	2.77	3.16	\$10.00	28,453	0.9%
47	205	2,500	4		4	890		1	3,560		3,560	12.73	611	0.11	\$12.84	616	0.9%	2.96	2.17	2.77	4.94	\$12.84	616	0.9%
48	448	6,000	-		-	1,947		-	-		-	21.86	-	0.19	\$22.05	-	0.9%	2.96	4.74	2.77	11.58	\$22.05	-	0.9%
49																								
50																								
51	Mercury																							
52	117	3,500	4,922		4,922	509		576	2,505,298		2,505,298	\$13.60	\$ 803,388	0.12	\$13.72	\$ 810,331	0.9%	\$2.96	\$1.24	\$2.77	\$6.75	\$13.72	\$ 810,331	0.9%
53	205	7,000	956		956	890		196	850,840		850,840	16.37	187,787	0.14	\$16.51	189,410	0.9%	2.96	2.17	2.77	8.61	\$16.51	189,410	0.9%
54	292	11,000	57		57	1,269		17	72,333		72,333	20.24	13,842	0.17	\$20.41	13,962	0.9%	2.96	3.09	2.77	11.59	\$20.41	13,962	0.9%
55	453	15,000	3		3	1,968		1	5,904		5,904	23.15	833	0.20	\$23.35	841	0.9%	2.96	4.79	2.77	12.83	\$23.35	841	0.9%
56	453	20,000	424		424	1,968		192	834,432		834,432	24.99	127,160	0.22	\$25.21	128,259	0.9%	2.96	4.79	2.77	14.69	\$25.21	128,259	0.9%
57	1,082	56,000	136		136	4,701		147	639,336		639,336	39.72	64,830	0.34	\$40.07	65,391	0.9%	2.96	11.44	2.77	22.89	\$40.07	65,391	0.9%
58																								
59	Fluorescent																							
60	330	20,000	2		2	1,433		1	2,866		2,866	\$33.90	\$ 814	0.29	\$34.19	\$ 821	0.9%	\$2.96	\$3.49	\$2.77	\$24.97	\$34.19	\$ 821	0.9%
61																								
62	HPS in Mercury Luminaires																							
63	180	12,000	8		8	784		1	6,272		6,272	\$21.21	\$ 2,036	0.18	\$21.40	\$ 2,054	0.9%	\$2.96	\$1.90	\$2.77	\$13.76	\$21.40	\$ 2,054	0.9%
64	413	34,200	5		5	1,794		2	8,970		8,970	27.16	1,629	0.23	\$27.39	1,643	0.9%	2.96	4.37	2.77	17.29	27.39	1,643	0.9%
65																								
66	Total OL		17,695	25	17,720			3,947	17,110,234	20,232	17,130,466	\$ 4,393,317			\$ 4,431,282	0.9%						\$ 4,431,282	0.9%	

Calculation of Current Installed Cost of LED Street Lighting Equipment

LED Equipment Calculation						
	28 Watts	36 Watts	51 Watts	92 Watts	142 Watts	220 Watts
LABOR COST						
Hours						
Work Tasks	1.41	1.41	1.41	1.41	1.41	1.41
Setup/Span	0.53	0.53	0.53	0.53	0.53	0.53
Travel	0.36	0.36	0.36	0.36	0.36	0.36
Total	2.30	2.30	2.30	2.30	2.30	2.30
Labor Cost (Unloaded)	\$ 105.30	\$ 105.30	\$ 105.30	\$ 105.30	\$ 105.30	\$ 105.30
Labor Loaders						
Non-Productive	\$ 16.03	\$ 16.03	\$ 16.03	\$ 16.03	\$ 16.03	\$ 16.03
Labor	\$ 46.14	\$ 46.14	\$ 46.14	\$ 46.14	\$ 46.14	\$ 46.14
Direct Engineering	\$ 13.44	\$ 13.44	\$ 13.44	\$ 13.44	\$ 13.44	\$ 13.44
Total	\$ 75.61	\$ 75.61	\$ 75.61	\$ 75.61	\$ 75.61	\$ 75.61
Total Labor Cost	\$ 180.91	\$ 180.91	\$ 180.91	\$ 180.91	\$ 180.91	\$ 180.91
EQUIPMENT COST						
Hours	1.15	1.15	1.15	1.15	1.15	1.15
Rate	\$ 32.40	\$ 32.40	\$ 32.40	\$ 32.40	\$ 32.40	\$ 32.40
Total Equipment Cost	\$ 37.31	\$ 37.31	\$ 37.31	\$ 37.31	\$ 37.31	\$ 37.31
MATERIAL COST						
(From Materials Tab)	\$ 288.86	\$ 279.65	\$ 279.65	\$ 328.99	\$ 383.69	\$ 579.55
Material Loader	13.25%	13.25%	13.25%	13.25%	13.25%	13.25%
Total Material Cost	\$ 327.13	\$ 316.70	\$ 316.70	\$ 372.58	\$ 434.53	\$ 656.33
OTHER LOADERS						
Eng. & Sup.	\$ 77.19	\$ 77.19	\$ 77.19	\$ 77.19	\$ 77.19	\$ 77.19
Small Tool	\$ 5.43	\$ 5.43	\$ 5.43	\$ 5.43	\$ 5.43	\$ 5.43
AS&E	\$ 2.73	\$ 2.67	\$ 2.67	\$ 2.95	\$ 3.26	\$ 4.37
Total Other Cost	\$ 85.34	\$ 85.29	\$ 85.29	\$ 85.57	\$ 85.88	\$ 86.99
Total Installed Cost	\$ 630.70	\$ 620.22	\$ 620.22	\$ 676.38	\$ 738.64	\$ 961.55
Annual Carrying Charge	12.73%	12.73%	12.73%	12.73%	12.73%	12.73%
Per Month Charge	\$ 6.69	\$ 6.58	\$ 6.58	\$ 7.18	\$ 7.84	\$ 10.20

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Typical Bills by Rate Schedule

Residential Service - Rate R

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 30.75	\$ 30.79	\$ 0.05	0.15%
200	47.69	47.78	0.09	0.19%
250	56.16	56.27	0.11	0.20%
300	64.62	64.76	0.14	0.21%
400	81.56	81.74	0.18	0.22%
500	98.50	98.73	0.23	0.23%
600	115.44	115.71	0.27	0.24%
650	123.91	124.20	0.30	0.24%
700	132.38	132.70	0.32	0.24%
750	140.85	141.19	0.34	0.24%
1,000	183.19	183.65	0.46	0.25%
1,500	267.88	268.57	0.69	0.26%
2,000	352.57	353.48	0.91	0.26%
2,500	437.26	438.40	1.14	0.26%
3,000	521.95	523.32	1.37	0.26%
5,000	860.71	863.00	2.29	0.27%
7,500	1284.16	1,287.59	3.43	0.27%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 13.81	\$ 13.81	\$ -
Distribution Charge per kWh	0.05116	0.05180	\$ 0.00064
Transmission Charge per kWh	0.03011	0.03011	\$ -
Stranded Cost Recovery Charge	0.01441	0.01441	\$ -
System Benefits Charge	0.00743	0.00743	\$ -
Regulatory Reconciliation Adjustment	-	(0.00018)	\$ (0.00018)
Energy Service Charge	0.06627	0.06627	\$ -

Note: Immaterial differences due to rounding.

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Typical Bills by Rate Schedule

Residential Service - Uncontrolled Water Heating

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.37	\$ 18.40	\$ 0.02	0.13%
200	\$ 31.88	31.92	0.05	0.15%
300	\$ 45.38	45.45	0.07	0.16%
400	\$ 58.88	58.98	0.10	0.16%
500	\$ 72.39	72.50	0.12	0.16%
600	\$ 85.89	86.03	0.14	0.17%
700	\$ 99.39	99.56	0.17	0.17%
800	\$ 112.89	113.08	0.19	0.17%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 4.87	\$ 4.87	\$ -
Distribution Charge per kWh	0.02361	0.02395	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.01441	0.01441	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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Typical Bills by Rate Schedule

Residential Service - Controlled Water Heating

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.15	\$ 17.79	\$ (0.37)	-2.02%
200	29.93	30.70	0.78	2.60%
300	41.70	43.62	1.92	4.61%
400	53.47	56.54	3.07	5.73%
500	65.25	69.45	4.21	6.45%
600	77.02	82.37	5.35	6.95%
700	88.79	95.29	6.50	7.32%
800	100.56	108.20	7.64	7.60%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.38	\$ 4.87	\$ (1.51)
Distribution Charge per kWh	0.01241	0.02395	\$ 0.01154
Transmission Charge per kWh	0.02331	0.02331	\$ -
Stranded Cost Recovery Charge	0.00831	0.00831	\$ -
System Benefits Charge	0.00743	0.00743	\$ -
Regulatory Reconciliation Adjustment	-	(0.00010)	\$ (0.00010)
Energy Service Charge	0.06627	0.06627	\$ -

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Typical Bills by Rate Schedule

Residential Service - Optional Time of Day

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		BILL DIFFERENCE	
TOTAL ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 49.02	\$ 49.03	\$ 0.01	0.01%
200	65.97	65.98	0.01	0.02%
250	74.44	74.45	0.01	0.02%
300	82.91	82.92	0.02	0.02%
400	99.85	99.87	0.02	0.02%
500	116.79	116.82	0.03	0.02%
750	159.15	159.19	0.04	0.02%
1,000	201.51	201.56	0.05	0.02%
1,500	286.22	286.29	0.08	0.03%
2,000	370.93	371.03	0.10	0.03%
2,500	455.65	455.77	0.13	0.03%
3,000	540.36	540.51	0.15	0.03%
5,000	879.21	879.46	0.25	0.03%
7,500	1,302.78	1,303.15	0.38	0.03%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 32.08	\$ 32.08	\$ -
<u>Energy Charge On Peak kWh</u>			
Distribution Charge per kWh	\$ 0.15015	\$ 0.15079	\$ 0.00064
Transmission Charge per kWh	0.03011	0.03011	-
Stranded Cost Recovery Charge	0.01238	0.01238	-
System Benefits Charge	0.00743	0.00743	
Regulatory Reconciliation Adjustment	-	(0.00018)	(0.00018)
Energy Service Charge	0.06627	0.06627	
Total per On Peak kWh	0.26634	0.26680	0.00046
<u>Energy Charge Off Peak kWh</u>			
Distribution Charge per kWh	\$ 0.00818	\$ 0.00818	\$ -
Transmission Charge per kWh	0.01966	0.01966	-
Stranded Cost Recovery Charge	0.01238	0.01238	-
System Benefits Charge	0.00743	0.00743	
Regulatory Reconciliation Adjustment	-	(0.00018)	(0.00018)
Energy Service Charge	0.06627	0.06627	-
Total per Off Peak kWh	0.11392	0.11374	(0.00018)
% Sales On Peak	36%	36%	
% Sales Off Peak	64%	64%	

Note: Immaterial differences due to rounding.

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Residential Load Control Service - Radio Controlled

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.76	\$ 18.79	\$ 0.02	0.13%
200	30.54	30.58	0.05	0.16%
300	42.31	42.38	0.07	0.17%
400	54.08	54.18	0.10	0.18%
500	65.86	65.97	0.12	0.18%
600	77.63	77.77	0.14	0.18%
700	89.40	89.57	0.17	0.19%
800	101.17	101.36	0.19	0.19%
900	112.95	113.16	0.21	0.19%
1,000	124.72	124.96	0.24	0.19%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.99	\$ 6.99	\$ -
Distribution Charge per kWh	0.01241	0.01275	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00831	0.00831	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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Residential Load Control Service - 8 Hour Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		BILL DIFFERENCE	
TOTAL ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.76	\$ 17.79	\$ (0.98)	-5.20%
200	30.54	30.70	0.17	0.55%
300	42.31	43.62	1.31	3.10%
400	54.08	56.54	2.46	4.54%
500	65.86	69.45	3.60	5.47%
600	77.63	82.37	4.74	6.11%
700	89.40	95.29	5.89	6.58%
800	101.17	108.20	7.03	6.95%
900	112.95	121.12	8.17	7.24%
1,000	124.72	134.04	9.32	7.47%
1,200	148.27	159.87	11.61	7.83%
1,500	183.59	198.62	15.04	8.19%
1,800	218.90	237.37	18.47	8.44%
2,000	242.45	263.21	20.76	8.56%
2,500	301.32	327.79	26.48	8.79%
3,000	360.18	392.37	32.19	8.94%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.99	\$ 4.87	\$ (2.12)
Distribution Charge per kWh	0.01241	0.02395	\$ 0.01154
Transmission Charge per kWh	0.02331	0.02331	\$ -
Stranded Cost Recovery Charge	0.00831	0.00831	\$ -
System Benefits Charge	0.00743	0.00743	\$ -
Regulatory Reconciliation Adjustment	-	(0.00010)	\$ (0.00010)
Energy Service Charge	0.06627	0.06627	\$ -

Note: Immaterial differences due to rounding.

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Residential Load Control Service - 8 Hour No Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		BILL DIFFERENCE	
TOTAL ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.15	\$ 17.79	\$ (0.37)	-2.02%
200	29.93	30.70	0.78	2.60%
300	41.70	43.62	1.92	4.61%
400	53.47	56.54	3.07	5.73%
500	65.25	69.45	4.21	6.45%
600	77.02	82.37	5.35	6.95%
700	88.79	95.29	6.50	7.32%
800	100.56	108.20	7.64	7.60%
900	112.34	121.12	8.78	7.82%
1,000	124.11	134.04	9.93	8.00%
1,200	147.66	159.87	12.22	8.27%
1,500	182.98	198.62	15.65	8.55%
1,800	218.29	237.37	19.08	8.74%
2,000	241.84	263.21	21.37	8.83%
2,500	300.71	327.79	27.09	9.01%
3,000	359.57	392.37	32.80	9.12%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.38	\$ 4.87	(1.51)
Distribution Charge per kWh	0.01241	0.02395	0.01154
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00831	0.00831	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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Residential Load Control Service - 10/11 Hour Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		BILL DIFFERENCE	
TOTAL ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 19.88	\$ 17.79	\$ (2.10)	-10.54%
200	32.78	30.70	(2.07)	-6.32%
300	45.67	43.62	(2.05)	-4.49%
400	58.56	56.54	(2.02)	-3.46%
500	71.46	69.45	(2.00)	-2.80%
600	84.35	82.37	(1.98)	-2.34%
700	97.24	95.29	(1.95)	-2.01%
800	110.13	108.20	(1.93)	-1.75%
900	123.03	121.12	(1.91)	-1.55%
1,000	135.92	134.04	(1.88)	-1.38%
1,200	161.71	159.87	(1.83)	-1.13%
1,500	200.39	198.62	(1.76)	-0.88%
1,800	239.06	237.37	(1.69)	-0.71%
2,000	264.85	263.21	(1.64)	-0.62%
2,500	329.32	327.79	(1.52)	-0.46%
3,000	393.78	392.37	(1.41)	-0.36%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.99	\$ 4.87	(2.12)
Distribution Charge per kWh	0.02361	0.02395	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00831	0.00831	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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Residential Load Control Service - 10/11 Hour No Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		BILL DIFFERENCE	
TOTAL ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 19.27	\$ 17.79	\$ (1.49)	-7.71%
200	32.17	30.70	(1.46)	-4.55%
300	45.06	43.62	(1.44)	-3.19%
400	57.95	56.54	(1.41)	-2.44%
500	70.85	69.45	(1.39)	-1.96%
600	83.74	82.37	(1.37)	-1.63%
700	96.63	95.29	(1.34)	-1.39%
800	109.52	108.20	(1.32)	-1.20%
900	122.42	121.12	(1.30)	-1.06%
1,000	135.31	134.04	(1.27)	-0.94%
1,200	161.10	159.87	(1.22)	-0.76%
1,500	199.78	198.62	(1.15)	-0.58%
1,800	238.45	237.37	(1.08)	-0.45%
2,000	264.24	263.21	(1.03)	-0.39%
2,500	328.71	327.79	(0.91)	-0.28%
3,000	393.17	392.37	(0.80)	-0.20%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$6.38	\$4.87	(1.51)
Distribution Charge per kWh	\$0.02361	\$0.02395	0.00034
Transmission Charge per kWh	\$0.02331	\$0.02331	-
Stranded Cost Recovery Charge	\$0.00831	\$0.00831	-
System Benefits Charge	\$0.00743	\$0.00743	-
Regulatory Reconciliation Adjustment	\$0.00000	-\$0.00010	(0.00010)
Energy Service Charge	\$0.06627	\$0.06627	-

Note: Immaterial differences due to rounding.

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General Service 1 Phase

(A)	(B)	(C)	(D)	(E) = (D) - (C)	(F) = (E) / (C)
USAGE		TOTAL MONTHLY BILL		BILL DIFFERENCE	
MONTHLY DEMAND (KW)	MONTHLY USE (KWH)	CURRENT	PROPOSED	AMOUNT	PERCENT
3	375	\$ 69.49	\$ 69.49	\$ -	0.00%
3	1,000	146.84	146.84	-	0.00%
6	750	137.44	137.59	0.15	0.11%
6	1,500	226.84	226.98	0.15	0.07%
12	1,500	349.24	350.28	1.05	0.30%
30	6,000	1,205.59	1,209.33	3.75	0.31%
40	10,000	1,844.39	1,849.63	5.25	0.28%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 16.21	\$ 16.21	\$ -
<u>Demand Charge >5kWh</u>			
Distribution	\$ 11.49	\$ 11.70	\$ 0.21
Transmission	7.77	7.77	-
Stranded Cost Recovery Charge	1.14	1.14	-
Regulatory Reconciliation Adjustment	-	(0.06)	\$ (0.06)
Total	\$ 20.40	\$ 20.55	\$ 0.15
<u>Energy Charge < 500kWh</u>			
Distribution Charge per kWh	\$ 0.02805	\$ 0.02805	\$ -
Transmission Charge per kWh	0.02807	0.02807	-
Stranded Cost Recovery Charge	0.01225	0.01225	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total	\$ 0.14207	\$ 0.14207	\$ -
<u>Energy Charge 501 - 1500 kWh</u>			
Distribution Charge per kWh	\$ 0.02268	\$ 0.02268	\$ -
Transmission Charge per kWh	0.01056	0.01056	-
Stranded Cost Recovery Charge	0.01225	0.01225	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total	\$ 0.11919	\$ 0.11919	\$ -
<u>Energy Charge >1500 kWh</u>			
Distribution Charge per kWh	\$ 0.01709	\$ 0.01709	\$ -
Transmission Charge per kWh	0.00566	0.00566	-
Stranded Cost Recovery Charge	0.01225	0.01225	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total	\$ 0.10870	\$ 0.10870	\$ -

Note: Immaterial differences due to rounding.

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General Service 3 Phase

(A)	(B)	(C)	(D)	(E) = (D) - (C)	(F) = (E) / (C)
USAGE		TOTAL MONTHLY BILL		BILL DIFFERENCE	
MONTHLY DEMAND (KW)	MONTHLY USE (KWH)	CURRENT	PROPOSED	AMOUNT	PERCENT
3	375	\$ 85.67	\$ 85.67	\$ -	0.00%
3	1,000	163.02	163.02	-	0.00%
6	750	153.62	153.77	0.15	0.10%
6	1,500	243.02	243.16	0.15	0.06%
12	1,500	365.42	366.46	1.05	0.29%
30	6,000	1,221.77	1,225.51	3.75	0.31%
40	10,000	1,860.57	1,865.81	5.25	0.28%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 32.39	\$ 32.39	\$ -
<u>Demand Charge >5kWh</u>			
Distribution	\$ 11.49	\$ 11.70	0.21
Transmission	7.77	7.77	-
Stranded Cost Recovery Charge	1.14	1.14	-
Regulatory Reconciliation Adjustment	-	(0.06)	(0.06)
Total	\$ 20.40	\$ 20.55	0.15
<u>Energy Charge < 500kWh</u>			
Distribution Charge per kWh	\$ 0.02805	\$ 0.02805	\$ -
Transmission Charge per kWh	0.02807	0.02807	-
Stranded Cost Recovery Charge	0.01225	0.01225	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total	\$ 0.14207	\$ 0.14207	\$ -
<u>Energy Charge 501 - 1500 kWh</u>			
Distribution Charge per kWh	\$ 0.02268	\$ 0.02268	\$ -
Transmission Charge per kWh	0.01056	0.01056	-
Stranded Cost Recovery Charge	0.01225	0.01225	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total	\$ 0.11919	\$ 0.11919	\$ -
<u>Energy Charge >1500 kWh</u>			
Distribution Charge per kWh	\$ 0.01709	\$ 0.01709	\$ -
Transmission Charge per kWh	0.00566	0.00566	-
Stranded Cost Recovery Charge	0.01225	0.01225	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total	\$ 0.10870	\$ 0.10870	\$ -

Note: Immaterial differences due to rounding.

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Typical Bills by Rate Schedule

General Service - Uncontrolled Water Heating

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.47	\$ 18.50	\$ 0.02	0.13%
200	32.08	32.13	0.05	0.15%
300	45.68	45.75	0.07	0.16%
400	59.29	59.38	0.10	0.16%
500	72.89	73.01	0.12	0.16%
600	86.49	86.64	0.14	0.17%
700	100.10	100.26	0.17	0.17%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 4.87	\$ 4.87	\$ -
Distribution Charge per kWh	0.02361	0.02395	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.01542	0.01542	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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General Service - Controlled Water Heating

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.22	\$ 17.85	\$ (0.37)	-2.01%
200	30.05	30.83	0.78	2.59%
300	41.89	43.81	1.92	4.59%
400	53.73	56.79	3.07	5.71%
500	65.57	69.77	4.21	6.42%
600	77.40	82.75	5.35	6.92%
700	89.24	95.74	6.50	7.28%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.38	\$ 4.87	\$ (1.51)
Distribution Charge per kWh	0.01241	0.02395	0.01154
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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General Service Load Control Service - Radio Controlled

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.83	\$ 18.85	\$ 0.02	0.13%
200	30.66	30.71	0.05	0.16%
300	42.50	42.57	0.07	0.17%
400	54.34	54.43	0.10	0.18%
500	66.18	66.29	0.12	0.18%
600	78.01	78.15	0.14	0.18%
700	89.85	90.02	0.17	0.19%
800	101.69	101.88	0.19	0.19%
900	113.52	113.74	0.21	0.19%
1,000	125.36	125.60	0.24	0.19%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.99	\$ 6.99	\$ -
Distribution Charge per kWh	0.01241	0.01275	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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General Service Load Control Service - 8 Hour Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.83	\$ 17.85	\$ (0.98)	-5.19%
200	30.66	30.83	0.17	0.55%
300	42.50	43.81	1.31	3.09%
400	54.34	56.79	2.46	4.52%
500	66.18	69.77	3.60	5.44%
600	78.01	82.75	4.74	6.08%
700	89.85	95.74	5.89	6.55%
800	101.69	108.72	7.03	6.91%
900	113.52	121.70	8.17	7.20%
1,000	125.36	134.68	9.32	7.43%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.99	\$ 4.87	\$ (2.12)
Distribution Charge per kWh	0.01241	0.02395	0.01154
Transmission Charge per kWh	0.02331	0.02331	-
Energy Service Charge	0.00895	0.00895	-
Stranded Cost Recovery Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
System Benefits Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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General Service Load Control Service - 8 Hour No Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 18.22	\$ 17.85	\$ (0.37)	-2.01%
200	30.05	30.83	0.78	2.59%
300	41.89	43.81	1.92	4.59%
400	53.73	56.79	3.07	5.71%
500	65.57	69.77	4.21	6.42%
600	77.40	82.75	5.35	6.92%
700	89.24	95.74	6.50	7.28%
800	101.08	108.72	7.64	7.56%
900	112.91	121.70	8.78	7.78%
1,000	124.75	134.68	9.93	7.96%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.38	\$ 4.87	\$ (1.51)
Distribution Charge per kWh	0.01241	0.02395	0.01154
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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General Service Load Control Service - 10/11 Hour Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 19.95	\$ 17.85	\$ (2.10)	-10.51%
200	32.90	30.83	(2.07)	-6.30%
300	45.86	43.81	(2.05)	-4.47%
400	58.82	56.79	(2.02)	-3.44%
500	71.78	69.77	(2.00)	-2.79%
600	84.73	82.75	(1.98)	-2.33%
700	97.69	95.74	(1.95)	-2.00%
800	110.65	108.72	(1.93)	-1.74%
900	123.60	121.70	(1.91)	-1.54%
1,000	136.56	134.68	(1.88)	-1.38%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.99	\$ 4.87	\$ (2.12)
Distribution Charge per kWh	0.02361	0.02395	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

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Typical Bills by Rate Schedule

General Service Load Control Service - 10/11 Hour No Switch

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 19.34	\$ 17.85	\$ (1.49)	-7.69%
200	32.29	30.83	(1.46)	-4.53%
300	45.25	43.81	(1.44)	-3.18%
400	58.21	56.79	(1.41)	-2.43%
500	71.17	69.77	(1.39)	-1.95%
600	84.12	82.75	(1.37)	-1.63%
700	97.08	95.74	(1.34)	-1.38%
800	110.04	108.72	(1.32)	-1.20%
900	122.99	121.70	(1.30)	-1.05%
1,000	135.95	134.68	(1.27)	-0.94%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 6.38	\$ 4.87	\$ (1.51)
Distribution Charge per kWh	0.02361	0.02395	0.00034
Transmission Charge per kWh	0.02331	0.02331	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00010)	(0.00010)
Energy Service Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

Public Service Company of New Hampshire
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Typical Bills by Rate Schedule

General Service - Optional Time of Day
Single Phase

(A)	(B)	(C)	(D)	(E)	(F)	(G) = (F) - (E)	(H) = (G) / (E)
MONTHLY DEMAND (KW)	MONTHLY USE (kWh)	ON-PEAK USE (kWh)	OFF-PEAK USE (kWh)	TOTAL MONTHLY BILL		BILL DIFFERENCE	
				CURRENT	PROPOSED	AMOUNT	PERCENT
12	1,500	600	900	\$ 452.93	\$ 454.73	\$ 1.80	0.40%
12	1,500	900	600	466.43	468.23	1.80	0.39%
12	3,000	1,200	1,800	616.44	618.24	1.80	0.29%
12	3,000	1,800	1,200	643.43	645.23	1.80	0.28%
30	4,500	1,800	2,700	1,151.11	1,155.60	4.50	0.39%
30	4,500	2,700	1,800	1,191.60	1,196.10	4.50	0.38%
30	9,000	3,600	5,400	1,641.63	1,646.13	4.50	0.27%
30	9,000	5,400	3,600	1,722.62	1,727.11	4.50	0.26%
50	7,500	3,000	4,500	1,890.53	1,898.02	7.50	0.40%
50	7,500	4,500	3,000	1,958.01	1,965.51	7.50	0.38%
50	15,000	6,000	9,000	2,708.07	2,715.57	7.50	0.28%
50	15,000	9,000	6,000	2,843.04	2,850.54	7.50	0.26%
75	11,250	4,500	6,750	2,814.80	2,826.04	11.24	0.40%
75	11,250	6,750	4,500	2,916.03	2,927.27	11.24	0.39%
75	22,500	9,000	13,500	4,041.12	4,052.36	11.24	0.28%
75	22,500	13,500	9,000	4,243.57	4,254.81	11.24	0.26%

	Current Rate	Proposed Rate	Difference
Customer Charge - Single Phase	\$ 41.98	\$ 41.98	\$ -
<u>Demand Charges</u>			
Distribution	\$ 14.92	\$ 15.13	\$ 0.21
Transmission	5.12	5.12	\$ -
Stranded Cost Recovery	0.58	0.58	\$ -
Regulatory Reconciliation Adjustment	-	(0.06)	\$ (0.06)
Total Demand Charge	20.62	20.77	0.15
<u>Energy Charge On Peak kWh</u>			
Distribution Charge per kWh	\$0.05335	\$ 0.05335	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total per On Peak kWh	0.13600	0.13600	-
<u>Energy Charge Off Peak kWh</u>			
Distribution Charge per kWh	\$0.00836	\$ 0.00836	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00895	0.00895	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06627	0.06627	-
Total per Off Peak kWh	0.09101	0.09101	-

Note: Immaterial differences due to rounding.

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 19-057
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Typical Bills by Rate Schedule

General Service - Optional Time of Day
Three Phase

(A)	(B)	(C)	(D)	(E)	(F)	(G) = (F) - (E)	(H) = (G) / (E)
MONTHLY DEMAND (KW)	MONTHLY USE (kWh)	ON-PEAK USE (kWh)	OFF-PEAK USE (kWh)	TOTAL MONTHLY BILL		BILL DIFFERENCE	
				CURRENT	PROPOSED	AMOUNT	PERCENT
12	1,500	600	900	\$ 472.12	\$ 473.92	\$ 1.80	0.38%
12	1,500	900	600	485.62	487.42	1.80	0.37%
12	3,000	1,200	1,800	636.80	638.60	1.80	0.28%
12	3,000	1,800	1,200	663.79	665.59	1.80	0.27%
30	4,500	1,800	2,700	1,172.64	1,177.13	4.50	0.38%
30	4,500	2,700	1,800	1,213.13	1,217.63	4.50	0.37%
30	9,000	3,600	5,400	1,666.67	1,671.17	4.50	0.27%
30	9,000	5,400	3,600	1,747.66	1,752.15	4.50	0.26%
50	7,500	3,000	4,500	1,914.40	1,921.89	7.50	0.39%
50	7,500	4,500	3,000	1,981.88	1,989.38	7.50	0.38%
50	15,000	6,000	9,000	2,737.79	2,745.29	7.50	0.27%
50	15,000	9,000	6,000	2,872.76	2,880.26	7.50	0.26%
75	11,250	4,500	6,750	2,841.59	2,852.84	11.24	0.40%
75	11,250	6,750	4,500	2,942.82	2,954.06	11.24	0.38%
75	22,500	9,000	13,500	4,076.69	4,087.93	11.24	0.28%
75	22,500	13,500	9,000	4,279.14	4,290.38	11.24	0.26%

	Current Rate	Proposed Rate	Difference
Customer Charge - Three Phase	\$ 60.00	\$ 60.00	\$ -
<u>Demand Charges</u>			
Distribution	\$ 14.92	\$ 15.13	\$ 0.21
Transmission	5.12	5.12	-
Stranded Cost Recovery	0.58	0.58	-
Regulatory Reconciliation Adjustment	-	(0.06)	(0.06)
Total Demand Charge	20.62	20.77	0.15
<u>Energy Charge On Peak kWh</u>			
Distribution Charge per kWh	\$ 0.05335	\$ 0.05335	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00532	0.00532	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.07068	0.07068	-
Total per On Peak kWh	0.13678	0.13678	-
<u>Energy Charge Off Peak kWh</u>			
Distribution Charge per kWh	\$ 0.00836	\$ 0.00836	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00532	0.00532	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.07068	0.07068	-
Total per Off Peak kWh	0.09179	0.09179	-

Note: Immaterial differences due to rounding.

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Typical Bills by Rate Schedule

General Service - Space Heating

(A)	(B)	(C)	(D) = (C) - (B)	(E) = (D) / (B)
USAGE	TOTAL MONTHLY BILL		TOTAL BILL DIFFERENCE	
ENERGY (kWh)	CURRENT	PROPOSED	AMOUNT	PERCENT
100	\$ 19.44	\$ 19.46	\$ 0.03	0.14%
200	35.63	35.68	0.05	0.15%
300	51.83	51.91	0.08	0.16%
400	68.02	68.13	0.11	0.16%
500	84.22	84.35	0.14	0.16%
600	100.41	100.57	0.16	0.16%
700	116.61	116.80	0.19	0.16%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 3.24	\$ 3.24	\$ -
Distribution Charge per kWh	0.04088	0.04126	0.00038
Transmission Charge per kWh	0.02807	0.02807	-
Energy Service Charge	0.01930	0.01930	-
Stranded Cost Recovery Charge	0.00743	0.00743	-
Regulatory Reconciliation Adjustment	-	(0.00011)	(0.00011)
System Benefits Charge	0.06627	0.06627	-

Note: Immaterial differences due to rounding.

Public Service Company of New Hampshire
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Typical Bills by Rate Schedule

Rate GV

(A)	(B)	(C)	(D)	(E) = (D) - (C)	(F) = (E) / (C)
USAGE		TOTAL MONTHLY BILL		BILL DIFFERENCE	
MONTHLY DEMAND (KW)	MONTHLY USE (KWH)	CURRENT	PROPOSED	AMOUNT	PERCENT
75	15,000	\$ 2,946.16	\$ 2,951.04	\$ 4.88	0.17%
75	30,000	4,308.61	4,313.49	4.88	0.11%
150	30,000	5,668.11	5,677.87	9.76	0.17%
150	60,000	8,393.01	8,402.77	9.76	0.12%
300	60,000	11,099.01	11,118.53	19.52	0.18%
300	120,000	16,548.81	16,568.33	19.52	0.12%
500	100,000	18,340.21	18,372.75	32.54	0.18%
500	200,000	27,423.21	27,455.75	32.54	0.12%
1,000	200,000	36,443.21	36,508.29	65.08	0.18%
1,000	400,000	54,463.21	54,528.29	65.08	0.12%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 211.21	\$ 211.21	\$ -
<u>Demand 1-100 kW</u>			
Distribution	\$ 6.90	\$ 6.99	\$ 0.09
Transmission	10.40	10.40	-
Stranded Cost Recovery Charge	1.00	1.00	-
Regulatory Reconciliation Adjustment	-	(0.02)	(0.02)
Total	\$ 18.30	\$ 18.37	\$ 0.07
<u>Demand > 100 kW</u>			
Distribution	\$ 6.64	\$ 6.73	\$ 0.09
Transmission	10.40	10.40	-
Stranded Cost Recovery Charge	1.00	1.00	-
Regulatory Reconciliation Adjustment	-	(0.02)	(0.02)
Total	\$ 18.04	\$ 18.11	\$ 0.07
<u>Energy Charge 1 - 200,000 kWh</u>			
Distribution Charge per kWh	\$ 0.00656	\$ 0.00656	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00987	0.00987	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06697	0.06697	-
Total	\$ 0.09083	\$ 0.09083	\$ -
<u>Energy Charge >200,000 kWh</u>			
Distribution Charge per kWh	\$ 0.00583	\$ 0.00583	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00987	0.00987	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06697	0.06697	-
Total	\$ 0.09010	\$ 0.09010	\$ -

Note: Immaterial differences due to rounding.

Public Service Company of New Hampshire
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Typical Bills by Rate Schedule

Rate LG

(A)	(B)	(C)	(D)	(E)	(F)	(G) = (F) - (E)	(H) = (G) / (E)
MONTHLY DEMAND (KVA)	MONTHLY USE (KWH)	ON-PEAK USE (KWH)	OFF-PEAK USE (KWH)	TOTAL MONTHLY BILL		BILL DIFFERENCE	
				CURRENT	PROPOSED	AMOUNT	PERCENT
3,000	300,000	120,000	180,000	\$ 76,116.75	\$ 76,264.86	\$ 148.11	0.19%
3,000	600,000	240,000	360,000	101,473.35	101,621.46	148.11	0.15%
3,000	900,000	360,000	540,000	126,829.95	126,978.06	148.11	0.12%
3,000	1,200,000	480,000	720,000	152,186.55	152,334.66	148.11	0.10%
3,000	1,500,000	600,000	900,000	177,543.15	177,691.26	148.11	0.08%
3,000	1,800,000	720,000	1,080,000	202,899.75	203,047.86	148.11	0.07%
3,000	2,100,000	840,000	1,260,000	228,256.35	228,404.46	148.11	0.06%

	Current Rate	Proposed Rate	Difference
Customer Charge	\$ 660.15	\$ 660.15	\$ -
<u>Demand</u>			
Distribution	\$ 5.85	\$ 5.92	\$ 0.07
Transmission	10.24	10.24	\$ -
Stranded Cost Recovery Charge	0.61	0.61	\$ -
Regulatory Reconciliation Adjustment	-	(0.02)	\$ (0.02)
Total	\$ 16.70	\$ 16.75	\$ 0.05
<u>Energy Charge - On-Peak</u>			
Distribution Charge per kWh	\$ 0.00554	\$ 0.00554	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00616	0.00616	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06697	0.06697	-
Total	\$ 0.08610	\$ 0.08610	\$ -
<u>Energy Charge - Off-Peak</u>			
Distribution Charge per kWh	\$ 0.00468	\$ 0.00468	\$ -
Transmission Charge per kWh	-	-	-
Stranded Cost Recovery Charge	0.00439	0.00439	-
System Benefits Charge	0.00743	0.00743	-
Energy Service Charge	0.06697	0.06697	-
Total	\$ 0.08347	\$ 0.08347	\$ -

Note: Immaterial differences due to rounding.

NHPUC NO. 10 - ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

2nd Revised Page 41
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Rate R

RESIDENTIAL DELIVERY SERVICE RATE R

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for Delivery Service in individual urban, rural and farm residences and apartments. Service under this rate is available to those Customers who receive all of their electric service requirements hereunder, except that controlled electric service for thermal storage devices is available under Load Controlled Delivery Service Rate LCS and outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL.

This rate is not applicable to commercial purposes except as specified hereafter. Multiple use of Delivery Service within the residence through one meter shall be billed in accordance with the predominant use of the demand. When wired for connection to the same meter, Delivery Service under this rate shall include the residence and connecting and adjacent buildings used exclusively for noncommercial purposes.

The use of single-phase motors of 3 H.P. rating or less is permitted under this rate provided such use does not interfere with the quality of service rendered to other Customers. Upon written application to the Company, the use of larger motors may be authorized where existing distribution facilities permit.

CHARACTER OF SERVICE

Delivery Service supplied under this rate will be single-phase, 60 hertz, alternating current, normally three-wire at a nominal voltage of 120/240 volts.

RATE PER MONTH

Customer Charge\$13.81 per month

Energy Charges:

Per Kilowatt-Hour

Distribution Charge..... 5.180¢

Regulatory Reconciliation Adjustment..... 0.000¢

Transmission Charge 3.011¢

Stranded Cost Recovery 1.441¢

Issued: May 3, 2021

Issued by: /s/ Joseph A. Purington
Joseph A. Purington

Effective: August 1, 2021

Title: President, NH Electric Operations

Authorized by NHPUC Order No. 26,451 in Docket No. DE 20-095, dated January 29, 2021.

NHPUC NO. 10 - ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

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Rate R

WATER HEATING - UNCONTROLLED

Uncontrolled water heating service is available under this rate at those locations which were receiving service hereunder on January 1, 2021 and which have continuously received such service since that date, and when such service is supplied to approved water heaters equipped with either (a) two thermostatically-operated heating elements, each with a rating of no more than 5,500 watts, so connected or interlocked that they cannot operate simultaneously, or (b) a single thermostatically-operated heating element with a rating of no more than 5,500 watts. The heating elements or element shall be connected by means of an approved circuit to a separate water heating meter. Delivery Service measured by this meter will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.395¢ per kilowatt-hour
Regulatory Reconciliation Adjustment..... 0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery1.441¢ per kilowatt-hour

WATER HEATING - CONTROLLED

Controlled off-peak water heating is available under this rate for a limited period of time at those locations which were receiving controlled off-peak water heating service hereunder on Customer Choice Date and which have continuously received such service hereunder since that date. Service under this rate at such locations shall continue to be available only for the remaining life of the presently-installed water heating equipment. No replacement water heaters shall be permitted to be installed for service under this rate at locations which otherwise would qualify for this service.

For those locations which qualify under the preceding paragraph, controlled off-peak water heating service is available under this rate when such service is supplied to approved storage type electric water heaters having an off-peak heating element with a rating of no more than 1,000 watts, or 20 watts per gallon of tank capacity, whichever is greater. The off-peak element shall be connected by means of an approved circuit to a separate water heating meter. Electricity used will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.395¢ per kilowatt-hour
Regulatory Reconciliation Adjustment..... 0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery0.831¢ per kilowatt-hour

Issued: May 3, 2021

Issued by: /s/ Joseph A. Purington
Joseph A. Purington

Effective: August 1, 2021

Title: President, NH Electric Operations

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

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Rate R-OTOD

SERVICE AGREEMENT

The term of the Service Agreement shall be one year, and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

CHARACTER OF SERVICE

Service supplied under this rate will be single-phase, 60 hertz, alternating current, normally three-wire at a nominal voltage of 120/240 volts.

RATE PER MONTH

Customer Charge\$32.08 per month

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours (7:00 a.m. to 8:00 p.m.
weekdays excluding Holidays)15.079¢

Off-Peak Hours (all other hours)0.818¢

Regulatory Reconciliation Adjustment..... 0.000¢

Transmission Charges:

On-Peak Hours (7:00 a.m. to 8:00 p.m.
weekdays excluding Holidays)3.011¢

Off-Peak Hours (all other hours)1.966¢

Stranded Cost Recovery.....1.238¢

The On-Peak Hours shall be the hours after 7:00 a.m. and before 8:00 p.m. weekdays excluding holidays as defined in this Tariff. The Off-Peak Hours shall be all hours not included in the On-Peak Hours.

Issued: May 3, 2021

Issued by: /s/ Joseph A. Purington
Joseph A. Purington

Effective: August 1, 2021

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

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Rate R-OTOD

CAPACITY CHARGE

The Company's studies may show that, in order to more closely follow cost of service, it is necessary or desirable to utilize meters capable of measuring rate of taking of electric service in kilowatts. The Company may install such meters either for all Customers served under this rate or for only those Customers whose usage of electricity is uncharacteristic of this class. At any time, the Company may file a revision of the rate form and/or charges of this rate to provide for an appropriate capacity charge. After such revision of this rate, any Customer who is subject to higher billing under this rate will have the option of continuing to take service under this rate or to take service under any other rate of the Company's Tariff which may be available.

WATER HEATING - UNCONTROLLED

Uncontrolled water heating service is available at those locations which were receiving service hereunder on January 1, 2021 and which have continuously received such service since that date, and when such service is supplied to approved water heaters equipped with either (a) two thermostatically-operated heating elements, each with a rating of no more than 5,500 watts, so connected or interlocked that they cannot operate simultaneously, or (b) a single thermostatically-operated heating element with a rating of no more than 5,500 watts. The heating elements or element shall be connected by means of an approved circuit to a separate water heating meter. Delivery Service measured by this meter will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.395¢ per kilowatt-hour
Regulatory Reconciliation Adj0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery.....1.441¢ per kilowatt-hour

WATER HEATING - CONTROLLED

Controlled off-peak water heating is available under this rate for a limited period of time at those locations which were receiving controlled off-peak water heating service hereunder on Customer Choice Date and which have continuously received such service hereunder since that date. Service under this rate at such locations shall continue to be available only for the remaining life of the presently-installed water heating equipment. No replacement water heaters shall be permitted to be installed for service under this rate at locations which otherwise would qualify for this service.

For those locations which qualify under the preceding paragraph, controlled off-peak water heating service is available under this rate when such service is supplied to approved storage type electric water heaters having an off-peak heating element with a rating of no more than 1,000 watts, or 20 watts per gallon of tank capacity, whichever is greater. The off-peak element shall be connected by means of an approved circuit to a separate water heating meter. Electricity used will be billed monthly as follows:

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Issued by: /s/ Joseph A. Purington
Joseph A. Purington

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

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Rate R-OTOD

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.395¢ per kilowatt-hour

Regulatory Reconciliation Adj0.000¢ per kilowatt-hour

Transmission Charge2.331¢ per kilowatt-hour

Stranded Cost Recovery 0.831¢ per kilowatt-hour

SERVICE CHARGE

When the Company establishes or re-establishes a Delivery Service account for a Customer at a meter location, the Company will be entitled to assess a service charge in addition to all other charges under this rate. The service charge will be \$10.00 if the Company does not have to send an employee to the meter location to establish or re-establish Delivery Service.

When it is necessary for the Company to send an employee to the meter location to establish or re-establish Delivery Service, the service charge will be \$35.00. When it is necessary for the Company to send an employee to the meter location outside of normal working hours to establish or re-establish Delivery Service, the service charge will be \$80.00. The Company will be entitled to assess an \$26.00 service charge when it is necessary to send an employee to the Customer location to collect a delinquent bill. This charge shall apply regardless of any action taken by the Company including accepting a payment, making a deferred payment arrangement or leaving a collection notice at the Customer's premises.

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Issued by: /s/ Joseph A. Purington
Joseph A. Purington

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NHPUC NO. 10 - ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

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Rate G

GENERAL DELIVERY SERVICE RATE G

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for Delivery Service for any use. It is available to (1) those Customers at existing delivery points who were receiving service hereunder on General Service Rate G on January 1, 1983, and who have continuously received service under that rate and this successor since that date, and (2) all other Customers whose loads as defined for billing purposes do not exceed 100 kilowatts. Service rendered hereunder shall exclude all backup and standby service provided under Backup Delivery Service Rate B.

Customers taking service under this rate shall provide any necessary transforming and regulating devices on the Customer's side of the meter. Controlled electric service for thermal storage devices is available under Load Controlled Service Rate LCS and outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL.

CHARACTER OF SERVICE

Delivery Service supplied under this rate will be 60 hertz, alternating current, either (a) single-phase, normally three-wire at a nominal voltage of 120/240 volts, or (b) three-phase, normally at a nominal voltage of 120/208 or 277/480 volts. Three-phase, three-wire service at a nominal voltage of 240, 480 or 600 volts is available only to those Customers at existing locations who were receiving such service on February 1, 1986, and who have continuously received such service since that date. In underground secondary network areas, Delivery Service will be supplied only at a nominal voltage of 120/208 volts.

RATE PER MONTH

	<u>Single-Phase Service</u>	<u>Three-Phase Service</u>
Customer Charge	\$16.21 per month	\$32.39 per month
Customer's Load Charges:	<u>Per Kilowatt of Customer Load in Excess of 5.0 Kilowatts</u>	
Distribution Charge.....	\$11.70	
Regulatory Reconciliation Adjustment.....	\$0.00	
Transmission Charge	\$7.77	
Stranded Cost Recovery.....	\$1.14	

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Rate G

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

First 500 kilowatt-hours2.805¢
Next 1,000 kilowatt-hours2.268¢
All additional kilowatt-hours1.709¢

Transmission Charge

First 500 kilowatt-hours2.807¢
Next 1,000 kilowatt-hours1.056¢
All additional kilowatt-hours0.566¢

Stranded Cost Recovery1.225¢

WATER HEATING - UNCONTROLLED

Uncontrolled water heating service is available under this rate at those locations which were receiving service hereunder on January 1, 2021 and which have continuously received such service since that date, and when such service is supplied to approved water heaters equipped with either (a) two thermostatically-operated heating elements, each with a rating of no more than 5,500 watts, so connected or interlocked that they cannot operate simultaneously, or (b) a single thermostatically-operated heating element with a rating of no more than 5,500 watts. The heating elements or element shall be connected by means of an approved circuit to a separate water heating meter. Service measured by this meter will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.395¢ per kilowatt-hour
Regulatory Reconciliation Adj0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery1.542¢ per kilowatt-hour

WATER HEATING - CONTROLLED

Controlled off-peak water heating is available under this rate for a limited period of time at those locations which were receiving controlled off-peak water heating service hereunder on Customer Choice Date and which have continuously received such service hereunder since that

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Rate G

date. Service under this rate at such locations shall continue to be available only for the remaining life of the presently-installed water heating equipment. No replacement water heaters shall be permitted to be installed for service under this rate at locations which otherwise would qualify for this service.

For those locations which qualify under the preceding paragraph, controlled off-peak water heating service is available under this rate when such service is supplied to approved storage type electric water heaters having an off-peak heating element with a rating of no more than 1,000 watts, or 20 watts per gallon of tank capacity, whichever is greater. The off-peak element shall be connected by means of an approved circuit to a separate water heating meter. Electricity used will be billed monthly as follows:

Meter Charge \$4.87 per month

Energy Charges:

Distribution Charge..... 2.395¢ per kilowatt-hour

Regulatory Reconciliation Adj 0.000¢ per kilowatt-hour

Transmission Charge 2.331¢ per kilowatt-hour

Stranded Cost Recovery..... 0.895¢ per kilowatt-hour

SPACE HEATING SERVICE

Space heating service is available under this rate at those locations which were receiving space heating service under the Transitional Space Heating Service Rate TSH prior to Customer Choice Date and which have continuously received such service since that date. Customers at such locations who have elected this rate shall have the electricity for such service billed separately on a monthly basis as follows:

Meter Charge \$3.24 per month

Energy Charges:

Distribution Charge..... 4.126¢ per kilowatt-hour

Regulatory Reconciliation Adj. 0.000¢ per kilowatt-hour

Transmission Charge 2.807¢ per kilowatt-hour

Stranded Cost Recovery..... 1.930¢ per kilowatt-hour

Space heating equipment served under this rate, including heat pumps and associated air circulating equipment, shall be wired by means of approved circuits to permit measurement of such equipment's additional demand and energy use.

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Rate G-OTOD

SERVICE AGREEMENT

The term of the Service Agreement shall be one year, and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

CHARACTER OF SERVICE

Service supplied under this rate will be 60 hertz, alternating current, either (a) single-phase, normally three-wire at a nominal voltage of 120/240 volts or (b) three-phase, normally at a nominal voltage of 120/208 or 277/480 volts. Three-phase, three-wire service at a nominal voltage of 240, 480 or 600 volts is available only to those Customers at existing locations who were receiving such service on February 1, 1986, and who have continuously received such service since that date. In underground secondary network areas, service will be supplied only at a nominal voltage of 120/208 volts.

RATE PER MONTH

	<u>Single-Phase Service</u>	<u>Three-Phase Service</u>
Customer Charge	\$41.98 per month	\$60.00 per month

Customer's Load Charges:

Per Kilowatt of Customer Load

Distribution Charge.....	\$15.13
Regulatory Reconciliation Adjustment.....	\$ 0.00
Transmission Charge	\$ 5.12
Stranded Cost Recovery.....	\$ 0.58

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours (7:00 a.m. to 8:00 p.m. weekdays excluding Holidays)	5.335¢
Off-Peak Hours (all other hours)	0.836¢

Stranded Cost Recovery.....	0.895¢
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Rate LCS

This rate is intended as a rider applicable to Residential Delivery Service Rate R or General Delivery Service Rate G. Therefore, service under this rate must be taken in conjunction with service provided under either Rate R or Rate G in accordance with the terms and conditions therein as now or hereafter effective except as may be specifically provided otherwise in this rate.

LIMITATIONS ON AVAILABILITY

Service under this rate shall not be available where, in the Company's judgment, sufficient distribution system capacity does not exist in order to supply the electrical requirements of the applicant unless the Customer provides for a suitable cash payment or a satisfactory revenue guarantee to the Company, or both.

The availability of this rate is also contingent upon the availability to the Company of personnel and/or other resources necessary to provide service under this rate.

TERM

The term of service under this rate shall be one year, and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

RATE PER MONTH

Customer Charges:

Radio-Controlled Option\$6.99 per month

8-Hour, 10-Hour or 11-Hour Option\$4.87 per month

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Rate LCS

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

Radio-Controlled Option or 8-Hour Option..... 1.275¢

10-Hour or 11-Hour Option 2.395¢

Regulatory Reconciliation Adjustment:

Radio-Controlled Option or 8-Hour Option..... 0.000¢

10-Hour or 11-Hour Option 0.000¢

Transmission Charge 2.331¢

Stranded Cost Recovery (When service is taken
in conjunction with Rate R) 0.831¢

Stranded Cost Recovery (When service is taken
in conjunction with Rate G) 0.895¢

METERS

Under this rate, the Company will install one meter with appropriate load control devices.

ELECTRIC THERMAL STORAGE EQUIPMENT APPROVED FOR LOAD CONTROL

Load Controlled Service is available under this rate to electric thermal storage installations meeting the Company's specifications as to type, size and electrical characteristics in accordance with the following guidelines.

I. Electric Thermal Storage Space Heating Equipment

Adequate control and switching equipment must be installed to provide capability for staggering the commencement of the charging period with respect to other electric thermal storage devices and for permitting partial charging on warmer days, and for controlling service to the thermal storage devices.

The storage capability of the electric thermal storage device must be adequate to heat the Customer's whole premises under design conditions and must be properly sized to ensure a constant rate of charging during the period which service under this rate is available as determined by the Company in accordance with its customary procedures. A smaller-sized electric thermal storage device may be approved by the Company for use in the Customer's premises under the Radio-Controlled Option.

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Rate GV

Demand Charges: Per Kilowatt of Maximum Demand

Distribution Charges:

First 100 kilowatts.....	\$6.99
Excess Over 100 kilowatts.....	\$6.73
Regulatory Reconciliation Adjustment.....	\$0.00
Transmission Charge	\$10.40
Stranded Cost Recovery.....	\$1.00

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

First 200,000 kilowatt-hours	0.656¢
All additional kilowatt-hours	0.583¢
Stranded Cost Recovery.....	0.987¢

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Rate LG

LARGE GENERAL DELIVERY SERVICE RATE LG

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for high voltage Delivery Service. It is available upon the signing of a Service Agreement for such service at specified delivery points to Customers whose loads are larger than those that would be permitted under Rate GV of this Tariff. Service rendered hereunder shall exclude all backup and standby service provided under Backup Delivery Service Rate B. Outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL. Substation foundations and structures, and suitable controlling, regulating, and transforming apparatus, all of which shall be acceptable to and approved by the Company, together with such protective equipment as the Company shall deem necessary for the protection and safe operation of its system, shall be provided at the expense of the Customer.

CHARACTER OF SERVICE

Delivery Service supplied under this rate will be three-phase, 60 hertz, alternating current, at a nominal delivery voltage determined by the Company, generally 34,500 volts or higher. A reasonably balanced load between phases shall be maintained by the Customer.

RATE PER MONTH

Customer Charge \$660.15 per month

Demand Charges:

Per Kilovolt-Ampere of Maximum Demand

Distribution Charge..... \$5.92

Regulatory Reconciliation Adjustment..... \$0.00

Transmission Charge \$10.24

Stranded Cost Recovery \$0.61

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours 0.554¢

Off-Peak Hours 0.468¢

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Rate B

Demand Charges:

For Customers who take service at 115,000 volts or higher, the following charges apply:

Transmission Charge.....	\$1.59 per KW or KVA, whichever is applicable, of Backup Contract Demand
Stranded Cost Recovery (For Customers whose Standard Rate is Rate GV)...	\$0.49 per KW or KVA, whichever is applicable, of Backup Contract Demand
Stranded Cost Recovery (For Customers whose Standard Rate is Rate LG)....	\$0.30 per KW or KVA, whichever is applicable, of Backup Contract Demand

For all other Customers, in addition to the charges applicable to the Customers who take service at 115,000 volts or higher, the following additional charge applies:

Distribution Charge.....	\$5.42 per KW or KVA, whichever is applicable, of Backup Contract Demand
Regulatory Reconciliation Adj.	\$X.XX per KW or KVA, whichever is applicable, of Backup Contract Demand

Energy Charges:

The energy charges contained in the Standard Rate for Delivery Service, except that the distribution charge is not applicable to Customers who take service at 115,000 volts or higher.

METERING

Metering shall be provided by the Company in accordance with the provisions of the Customer's Standard Rate, except as modifications to such metering may be required by the provisions of this rate. The Company may install any metering equipment necessary to accomplish the purposes of this rate, including the measurement of output from the Customer's generating facilities. Customer shall provide suitable meter locations for the Company's metering facilities. All costs of metering equipment in excess of costs normally incurred by the Company to provide service under Customer's Standard Rate shall be borne by the Customer.

REFUSAL TO PROVIDE ACCESS

In the event that the Customer refuses access to its premises to allow the Company to install metering equipment to measure the output of the Customer's generating facilities, the Company may estimate the amount of demand and energy delivered under this rate. The Customer shall be responsible for payment of all bill amounts calculated hereunder based on such estimates of demand and energy delivered.

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Rate OL

All-Night Service Option:

The monthly kilowatt-hours and distribution rates for each luminaire served under the all-night service option are shown below.

For New and Existing Installations:

<u>Lamp Nominal</u>		<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
High Pressure Sodium:														
4,000	50	27	23	22	19	16	16	16	18	21	23	24	27	\$15.56
5,800	70	40	34	32	29	24	23	24	27	31	35	37	40	15.56
9,500	100	59	50	47	42	35	34	35	39	46	51	53	59	20.69
16,000	150	88	74	70	62	53	51	53	59	68	76	79	88	29.26
30,000	250	142	120	113	101	85	82	85	95	110	123	128	142	29.98
50,000	400	217	183	173	154	130	126	130	144	168	188	196	217	30.32
130,000	1,000	510	430	408	362	306	296	306	340	395	442	460	510	48.66
Metal Halide:														
5,000	70	37	31	30	25	23	20	22	25	28	33	35	38	\$16.23
8,000	100	51	42	41	35	31	28	30	34	38	45	48	53	22.21
13,000	150	80	66	65	54	49	44	47	54	60	71	76	82	30.48
13,500	175	96	81	77	68	57	56	57	64	74	83	87	96	31.12
20,000	250	134	113	107	95	80	78	80	89	104	116	121	134	31.12
36,000	400	209	176	167	149	126	122	126	140	162	181	189	209	31.41
100,000	1,000	502	423	402	356	301	292	301	335	389	435	454	502	47.08
Light Emitting Diode (LED):														
2,500	28	13	11	10	9	8	8	8	9	10	11	11	13	\$10.27
4,100	36	17	14	13	12	10	10	10	11	13	15	15	17	10.25
4,800	51	24	20	19	17	14	14	14	16	18	21	21	24	10.41
8,500	92	43	36	34	30	26	25	26	29	33	37	39	43	11.45
13,300	142	66	56	53	47	40	38	40	44	51	57	60	66	12.65
24,500	220	102	86	82	73	61	59	61	68	79	89	92	102	15.86

For Existing Installations Only:

<u>Lamp Nominal</u>		<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
Incandescent:														
600	105	49	41	39	35	29	28	29	33	38	42	44	49	\$8.96
1,000	105	49	41	39	35	29	28	29	33	38	42	44	49	10.00
2,500	205	95	80	76	68	57	55	57	64	74	83	86	95	12.84
6,000	448	208	176	167	148	125	121	125	139	161	181	188	208	22.05

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<u>Lamp</u>	<u>Nominal</u>	<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
Mercury:														
3,500	100	54	46	44	39	33	32	33	36	42	47	49	54	\$13.72
7,000	175	95	80	76	68	57	55	57	64	74	83	86	95	16.51
11,000	250	136	114	109	96	81	79	81	91	105	118	123	136	20.41
15,000	400	211	178	169	149	126	122	126	140	163	183	190	211	23.35
20,000	400	211	178	169	149	126	122	126	140	163	183	190	211	25.21
56,000	1,000	503	424	403	357	302	292	302	335	390	436	454	503	40.07
Fluorescent:														
20,000	330	153	129	123	109	92	89	92	102	119	133	139	153	\$34.19
High Pressure Sodium in Existing Mercury Luminaires:														
12,000	150	84	71	67	59	50	49	50	56	65	73	76	84	21.40
34,200	360	192	162	154	136	115	112	115	128	149	166	173	192	27.39

The 15,000 Lumen Mercury fixture is fitted with a 20,000 lumen lamp. The 600 Lumen Incandescent fixture is fitted with a 1,000 lumen lamp.

Midnight Service Option:

The monthly kilowatt-hours and distribution rates for each luminaire served under the midnight service option are shown below.

<u>Lamp</u>	<u>Nominal</u>	<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
High Pressure Sodium:														
4,000	50	14	11	9	10	7	6	6	7	9	11	13	14	\$15.56
5,800	70	20	16	13	15	11	9	9	11	13	16	20	21	15.56
9,500	100	30	23	20	21	16	13	14	16	19	24	28	31	20.69
16,000	150	44	34	29	31	24	20	21	24	28	35	42	47	29.26
30,000	250	71	56	47	51	38	32	33	38	46	57	69	76	29.98
50,000	400	109	85	72	77	58	49	51	58	70	87	105	116	30.32
130,000	1,000	255	200	170	181	136	115	119	136	165	204	246	272	48.66
Metal Halide:														
5,000	70	20	16	14	15	11	9	10	11	13	17	20	22	\$16.23
8,000	100	28	22	19	20	15	13	13	15	18	23	27	30	22.21
13,000	150	44	34	30	31	24	20	21	24	28	36	43	47	30.48
13,500	175	48	38	32	34	25	22	22	26	31	38	47	51	31.12
20,000	250	67	52	45	48	36	30	31	36	43	54	65	71	31.12
36,000	400	104	82	70	74	56	47	49	56	68	84	101	111	31.41
100,000	1,000	251	196	167	178	134	114	117	134	162	201	243	268	47.08

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<u>Lamp Nominal</u>		<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
Light Emitting Diode (LED):														
2,500	28	7	5	4	5	3	3	3	3	4	5	6	7	\$10.27
4,100	36	8	7	6	6	4	4	4	4	5	7	8	9	10.25
4,800	51	12	9	8	8	6	5	6	6	8	9	11	13	10.41
8,500	92	21	17	14	15	11	10	10	11	14	17	21	23	11.45
13,300	142	33	26	22	23	18	15	15	18	21	26	32	35	12.65
24,500	220	51	40	34	36	27	23	24	27	33	41	50	55	15.86

MODIFICATION OF SERVICE OPTION Municipal and state roadway lighting Customers may request a modification of service from the all-night service option to the midnight service option during the calendar months of January and February of each year, otherwise known as the open enrollment period. Requests received from municipal and state roadway lighting Customers after the open enrollment period shall be implemented during the subsequent open enrollment period, unless the Company determines that it is feasible and practicable to implement the request prior to the subsequent enrollment period. All other Customers may request a modification of service from the all-night service option to the midnight service option at any time. Customers requesting a modification of service from the all-night service option to the midnight service option are responsible to pay to the Company the installed cost of any additional equipment required to provide service under the midnight service option. The installed cost includes the cost of the additional equipment, labor, vehicles and overheads. The Customer is responsible to pay such costs prior to the installation of the equipment. If such a request is made concurrent with the Company's existing schedule for lamp replacement and maintenance, the Customer is responsible to pay to the Company the cost of any additional equipment required, including overheads. The Customer is responsible to pay such costs prior to the installation of the equipment.

Customers requesting a modification of service from the midnight service option to the all-night service option are responsible to pay to the Company the installation cost of the equipment required to provide service under the all-night service option. The installation cost includes the cost of labor, vehicles and overheads. The Customer is responsible to pay such costs prior to the installation of the equipment. If such a request is made concurrent with the Company's existing schedule for lamp replacement and maintenance, no additional costs are required to modify service from the midnight service option to the all-night service option.

The Company will utilize fixed price estimates per luminaire for the installed cost, the additional equipment cost and the equipment installation cost and will update the fixed price estimates per luminaire each year based upon current costs. In the event traffic control is required during a modification of service option or for equipment repair, the Customer is responsible to coordinate and to provide traffic control and to pay all costs associated with traffic control. In the event the Customer is a residential or General Delivery Service Rate G Customer, the Company may coordinate and provide traffic control on the Customer's behalf and the Customer shall reimburse the Company for all costs associated with the traffic control provided by the Company. The scheduling of work associated with the modification of a service option will be made at the Company's discretion with consideration given to minimizing travel and set-up time.

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which are billed in conjunction with service rendered under a metered Rate Schedule, the kilowatt-hours used for billing purposes shall be the amount specified for the calendar month in which the later meter read date occurred for service rendered under the metered Rate Schedule.

All-Night Service Option:

The monthly kilowatt-hours and distribution rates for each fixture served under the all-night service option are shown below.

Lamp Nominal		Monthly KWH per Fixture												Monthly
Light Output	Power Rating													Distribution
Lumens	Watts	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Rate
High Pressure Sodium:														
4,000	50	27	23	22	19	16	16	16	18	21	23	24	27	\$6.34
5,800	70	40	34	32	29	24	23	24	27	31	35	37	40	6.65
9,500	100	59	50	47	42	35	34	35	39	46	51	53	59	7.07
16,000	150	88	74	70	62	53	51	53	59	68	76	79	88	7.73
30,000	250	142	120	113	101	85	82	85	95	110	123	128	142	8.96
50,000	400	217	183	173	154	130	126	130	144	168	188	196	217	10.66
130,000	1,000	510	430	408	362	306	296	306	340	395	442	460	510	17.33
Metal Halide:														
5,000	70	41	35	33	29	25	24	25	28	32	36	37	41	\$6.67
8,000	100	56	47	45	40	34	33	34	38	44	49	51	56	7.01
13,000	150	88	74	71	63	53	51	53	59	68	77	80	88	7.74
13,500	175	96	81	77	68	57	56	57	64	74	83	87	96	7.91
20,000	250	134	113	107	95	80	78	80	89	104	116	121	134	8.78
36,000	400	209	176	167	149	126	122	126	140	162	181	189	209	10.49
100,000	1,000	502	423	402	356	301	292	301	335	389	435	454	502	17.15

LED's and other technologies accepted by the Company:

	Per Fixture	Per Watt
Monthly Distribution Rates	\$3.24	\$0.01058

Monthly KWH per Fixture will be calculated to the nearest whole (1.0) KWH as follows:

Total Fixture Wattage divided by 1,000 times the monthly hours of operation below

Monthly Hours of Operation											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
465	392	372	330	279	270	279	310	360	403	420	465

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Midnight Service Option:

The monthly kilowatt-hours and distribution rates for each fixture served under the midnight service option are shown below.

<u>Lamp Nominal</u>		<u>Monthly KWH per Fixture</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>													
<u>Lumens</u>	<u>Watts</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
High Pressure Sodium:														
4,000	50	14	11	9	10	7	6	6	7	9	11	13	14	\$6.34
5,800	70	20	16	13	15	11	9	9	11	13	16	20	21	6.65
9,500	100	30	23	20	21	16	13	14	16	19	24	28	31	7.07
16,000	150	44	34	29	31	24	20	21	24	28	35	42	47	7.73
30,000	250	71	56	47	51	38	32	33	38	46	57	69	76	8.96
50,000	400	109	85	72	77	58	49	51	58	70	87	105	116	10.66
130,000	1,000	255	200	170	181	136	115	119	136	165	204	246	272	17.33
Metal Halide:														
5,000	70	20	16	14	15	11	9	10	11	13	17	20	22	\$6.67
8,000	100	28	22	19	20	15	13	13	15	18	23	27	30	7.01
13,000	150	44	34	30	31	24	20	21	24	28	36	43	47	7.74
13,500	175	48	38	32	34	25	22	22	26	31	38	47	51	7.91
20,000	250	67	52	45	48	36	30	31	36	43	54	65	71	8.78
36,000	400	104	82	70	74	56	47	49	56	68	84	101	111	10.49
100,000	1,000	251	196	167	178	134	114	117	134	162	201	243	268	17.15

LED's and other technologies accepted by the Company:

	<u>Per Fixture</u>	<u>Per Watt</u>
Monthly Distribution Rates	\$3.24	\$0.01058

Monthly KWH per Fixture will be calculated to the nearest whole (1.0) KWH as follows:

Total Fixture Wattage divided by 1,000 times the monthly hours of operation below

<u>Monthly Hours of Operation</u>											
<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
233	182	155	165	124	105	108	124	150	186	225	248

LEAP YEAR ADJUSTMENT TO ENERGY

During any leap year, the energy (Kilowatt-hour) usage during the month of February for all fixtures shall be increased by 3.6 percent for the purpose of determining total energy charges under this rate.

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DBA EVERSOURCE ENERGY Rate R

RESIDENTIAL DELIVERY SERVICE RATE R

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for Delivery Service in individual urban, rural and farm residences and apartments. Service under this rate is available to those Customers who receive all of their electric service requirements hereunder, except that controlled electric service for thermal storage devices is available under Load Controlled Delivery Service Rate LCS and outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL.

This rate is not applicable to commercial purposes except as specified hereafter. Multiple use of Delivery Service within the residence through one meter shall be billed in accordance with the predominant use of the demand. When wired for connection to the same meter, Delivery Service under this rate shall include the residence and connecting and adjacent buildings used exclusively for noncommercial purposes.

The use of single-phase motors of 3 H.P. rating or less is permitted under this rate provided such use does not interfere with the quality of service rendered to other Customers. Upon written application to the Company, the use of larger motors may be authorized where existing distribution facilities permit.

CHARACTER OF SERVICE

Delivery Service supplied under this rate will be single-phase, 60 hertz, alternating current, normally three-wire at a nominal voltage of 120/240 volts.

RATE PER MONTH

Customer Charge\$13.81 per month

Energy Charges:

Per Kilowatt-Hour

Distribution Charge.....~~5.44~~^{5.16}~~180~~¢

Regulatory Reconciliation Adjustment..... 0.000¢

Transmission Charge3.011¢

Stranded Cost Recovery..... 1.441¢

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Rate R

WATER HEATING - UNCONTROLLED

Uncontrolled water heating service is available under this rate at those locations which were receiving service hereunder on January 1, 2021 and which have continuously received such service since that date, and when such service is supplied to approved water heaters equipped with either (a) two thermostatically-operated heating elements, each with a rating of no more than 5,500 watts, so connected or interlocked that they cannot operate simultaneously, or (b) a single thermostatically-operated heating element with a rating of no more than 5,500 watts. The heating elements or element shall be connected by means of an approved circuit to a separate water heating meter. Delivery Service measured by this meter will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.36195¢ per kilowatt-hour
Regulatory Reconciliation Adjustment..... 0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery1.441¢ per kilowatt-hour

WATER HEATING - CONTROLLED

Controlled off-peak water heating is available under this rate for a limited period of time at those locations which were receiving controlled off-peak water heating service hereunder on Customer Choice Date and which have continuously received such service hereunder since that date. Service under this rate at such locations shall continue to be available only for the remaining life of the presently-installed water heating equipment. No replacement water heaters shall be permitted to be installed for service under this rate at locations which otherwise would qualify for this service.

For those locations which qualify under the preceding paragraph, controlled off-peak water heating service is available under this rate when such service is supplied to approved storage type electric water heaters having an off-peak heating element with a rating of no more than 1,000 watts, or 20 watts per gallon of tank capacity, whichever is greater. The off-peak element shall be connected by means of an approved circuit to a separate water heating meter. Electricity used will be billed monthly as follows:

Meter Charge\$6.384.87 per month

Energy Charges:

Distribution Charge.....1.2412.395¢ per kilowatt-hour
Regulatory Reconciliation Adjustment..... 0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery0.831¢ per kilowatt-hour

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DBA EVERSOURCE ENERGY
Rate R-OTOD

SERVICE AGREEMENT

The term of the Service Agreement shall be one year, and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

CHARACTER OF SERVICE

Service supplied under this rate will be single-phase, 60 hertz, alternating current, normally three-wire at a nominal voltage of 120/240 volts.

RATE PER MONTH

Customer Charge\$32.08 per month

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours (7:00 a.m. to 8:00 p.m.
weekdays excluding Holidays)15.015079¢

Off-Peak Hours (all other hours)0.818¢

Regulatory Reconciliation Adjustment..... 0.000¢

Transmission Charges:

On-Peak Hours (7:00 a.m. to 8:00 p.m.
weekdays excluding Holidays)3.011¢

Off-Peak Hours (all other hours)1.966¢

Stranded Cost Recovery.....1.238¢

The On-Peak Hours shall be the hours after 7:00 a.m. and before 8:00 p.m. weekdays excluding holidays as defined in this Tariff. The Off-Peak Hours shall be all hours not included in the On-Peak Hours.

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CAPACITY CHARGE

The Company's studies may show that, in order to more closely follow cost of service, it is necessary or desirable to utilize meters capable of measuring rate of taking of electric service in kilowatts. The Company may install such meters either for all Customers served under this rate or for only those Customers whose usage of electricity is uncharacteristic of this class. At any time, the Company may file a revision of the rate form and/or charges of this rate to provide for an appropriate capacity charge. After such revision of this rate, any Customer who is subject to higher billing under this rate will have the option of continuing to take service under this rate or to take service under any other rate of the Company's Tariff which may be available.

WATER HEATING - UNCONTROLLED

Uncontrolled water heating service is available at those locations which were receiving service hereunder on January 1, 2021 and which have continuously received such service since that date, and when such service is supplied to approved water heaters equipped with either (a) two thermostatically-operated heating elements, each with a rating of no more than 5,500 watts, so connected or interlocked that they cannot operate simultaneously, or (b) a single thermostatically-operated heating element with a rating of no more than 5,500 watts. The heating elements or element shall be connected by means of an approved circuit to a separate water heating meter. Delivery Service measured by this meter will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.361395¢ per kilowatt-hour
Regulatory Reconciliation Adj0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery.....1.441¢ per kilowatt-hour

WATER HEATING - CONTROLLED

Controlled off-peak water heating is available under this rate for a limited period of time at those locations which were receiving controlled off-peak water heating service hereunder on Customer Choice Date and which have continuously received such service hereunder since that date. Service under this rate at such locations shall continue to be available only for the remaining life of the presently-installed water heating equipment. No replacement water heaters shall be permitted to be installed for service under this rate at locations which otherwise would qualify for this service.

For those locations which qualify under the preceding paragraph, controlled off-peak water heating service is available under this rate when such service is supplied to approved storage type electric water heaters having an off-peak heating element with a rating of no more than 1,000 watts, or 20 watts per gallon of tank capacity, whichever is greater. The off-peak element shall be connected by means of an approved circuit to a separate water heating meter. Electricity used will be billed monthly as follows:

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Meter Charge\$~~6.384~~^{6.87} per month
Energy Charges:
Distribution Charge.....~~1.241~~^{2.395}¢ per kilowatt-hour
Regulatory Reconciliation Adj0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery 0.831¢ per kilowatt-hour

SERVICE CHARGE

When the Company establishes or re-establishes a Delivery Service account for a Customer at a meter location, the Company will be entitled to assess a service charge in addition to all other charges under this rate. The service charge will be \$10.00 if the Company does not have to send an employee to the meter location to establish or re-establish Delivery Service.

When it is necessary for the Company to send an employee to the meter location to establish or re-establish Delivery Service, the service charge will be \$35.00. When it is necessary for the Company to send an employee to the meter location outside of normal working hours to establish or re-establish Delivery Service, the service charge will be \$80.00. The Company will be entitled to assess an \$26.00 service charge when it is necessary to send an employee to the Customer location to collect a delinquent bill. This charge shall apply regardless of any action taken by the Company including accepting a payment, making a deferred payment arrangement or leaving a collection notice at the Customer's premises.

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DBA EVERSOURCE ENERGY Rate G

GENERAL DELIVERY SERVICE RATE G

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for Delivery Service for any use. It is available to (1) those Customers at existing delivery points who were receiving service hereunder on General Service Rate G on January 1, 1983, and who have continuously received service under that rate and this successor since that date, and (2) all other Customers whose loads as defined for billing purposes do not exceed 100 kilowatts. Service rendered hereunder shall exclude all backup and standby service provided under Backup Delivery Service Rate B.

Customers taking service under this rate shall provide any necessary transforming and regulating devices on the Customer's side of the meter. Controlled electric service for thermal storage devices is available under Load Controlled Service Rate LCS and outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL.

CHARACTER OF SERVICE

Delivery Service supplied under this rate will be 60 hertz, alternating current, either (a) single-phase, normally three-wire at a nominal voltage of 120/240 volts, or (b) three-phase, normally at a nominal voltage of 120/208 or 277/480 volts. Three-phase, three-wire service at a nominal voltage of 240, 480 or 600 volts is available only to those Customers at existing locations who were receiving such service on February 1, 1986, and who have continuously received such service since that date. In underground secondary network areas, Delivery Service will be supplied only at a nominal voltage of 120/208 volts.

RATE PER MONTH

	<u>Single-Phase Service</u>	<u>Three-Phase Service</u>
Customer Charge	\$16.21 per month	\$32.39 per month
Customer's Load Charges:	<u>Per Kilowatt of Customer Load in Excess of 5.0 Kilowatts</u>	
Distribution Charge.....	\$11. 49 .70	
Regulatory Reconciliation Adjustment.....	\$0.00	
Transmission Charge	\$7.77	
Stranded Cost Recovery.....	\$1.14	

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Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

First 500 kilowatt-hours2.805¢
Next 1,000 kilowatt-hours2.268¢
All additional kilowatt-hours1.709¢

Transmission Charge

First 500 kilowatt-hours2.807¢
Next 1,000 kilowatt-hours1.056¢
All additional kilowatt-hours0.566¢

Stranded Cost Recovery1.225¢

WATER HEATING - UNCONTROLLED

Uncontrolled water heating service is available under this rate at those locations which were receiving service hereunder on January 1, 2021 and which have continuously received such service since that date, and when such service is supplied to approved water heaters equipped with either (a) two thermostatically-operated heating elements, each with a rating of no more than 5,500 watts, so connected or interlocked that they cannot operate simultaneously, or (b) a single thermostatically-operated heating element with a rating of no more than 5,500 watts. The heating elements or element shall be connected by means of an approved circuit to a separate water heating meter. Service measured by this meter will be billed monthly as follows:

Meter Charge\$4.87 per month

Energy Charges:

Distribution Charge.....2.~~361~~³⁹⁵¢ per kilowatt-hour
Regulatory Reconciliation Adj0.000¢ per kilowatt-hour
Transmission Charge2.331¢ per kilowatt-hour
Stranded Cost Recovery1.542¢ per kilowatt-hour

WATER HEATING - CONTROLLED

Controlled off-peak water heating is available under this rate for a limited period of time at those locations which were receiving controlled off-peak water heating service hereunder on Customer Choice Date and which have continuously received such service hereunder since that

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date. Service under this rate at such locations shall continue to be available only for the remaining life of the presently-installed water heating equipment. No replacement water heaters shall be permitted to be installed for service under this rate at locations which otherwise would qualify for this service.

For those locations which qualify under the preceding paragraph, controlled off-peak water heating service is available under this rate when such service is supplied to approved storage type electric water heaters having an off-peak heating element with a rating of no more than 1,000 watts, or 20 watts per gallon of tank capacity, whichever is greater. The off-peak element shall be connected by means of an approved circuit to a separate water heating meter. Electricity used will be billed monthly as follows:

Meter Charge ~~\$6.38~~ ^{\$4.87} per month
Energy Charges:
Distribution Charge..... ~~1.24~~ ^{1.395}¢ per kilowatt-hour
Regulatory Reconciliation Adj 0.000¢ per kilowatt-hour
Transmission Charge 2.331¢ per kilowatt-hour
Stranded Cost Recovery..... 0.895¢ per kilowatt-hour

SPACE HEATING SERVICE

Space heating service is available under this rate at those locations which were receiving space heating service under the Transitional Space Heating Service Rate TSH prior to Customer Choice Date and which have continuously received such service since that date. Customers at such locations who have elected this rate shall have the electricity for such service billed separately on a monthly basis as follows:

Meter Charge \$3.24 per month
Energy Charges:
Distribution Charge..... ~~4.08~~ ^{1.26}¢ per kilowatt-hour
Regulatory Reconciliation Adj 0.000¢ per kilowatt-hour
Transmission Charge 2.807¢ per kilowatt-hour
Stranded Cost Recovery..... 1.930¢ per kilowatt-hour

Space heating equipment served under this rate, including heat pumps and associated air circulating equipment, shall be wired by means of approved circuits to permit measurement of such equipment's additional demand and energy use.

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SERVICE AGREEMENT

The term of the Service Agreement shall be one year, and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

CHARACTER OF SERVICE

Service supplied under this rate will be 60 hertz, alternating current, either (a) single-phase, normally three-wire at a nominal voltage of 120/240 volts or (b) three-phase, normally at a nominal voltage of 120/208 or 277/480 volts. Three-phase, three-wire service at a nominal voltage of 240, 480 or 600 volts is available only to those Customers at existing locations who were receiving such service on February 1, 1986, and who have continuously received such service since that date. In underground secondary network areas, service will be supplied only at a nominal voltage of 120/208 volts.

RATE PER MONTH

	<u>Single-Phase Service</u>	<u>Three-Phase Service</u>
Customer Charge	\$41.98 per month	\$60.00 per month

Customer's Load Charges:

Per Kilowatt of Customer Load

Distribution Charge.....	\$14.92 ^{15.13}
Regulatory Reconciliation Adjustment.....	\$ 0.00
Transmission Charge	\$ 5.12
Stranded Cost Recovery.....	\$ 0.58

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours (7:00 a.m. to 8:00 p.m. weekdays excluding Holidays)	5.335¢
Off-Peak Hours (all other hours)	0.836¢

Stranded Cost Recovery.....	0.895¢
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Rate LCS

This rate is intended as a rider applicable to Residential Delivery Service Rate R or General Delivery Service Rate G. Therefore, service under this rate must be taken in conjunction with service provided under either Rate R or Rate G in accordance with the terms and conditions therein as now or hereafter effective except as may be specifically provided otherwise in this rate.

LIMITATIONS ON AVAILABILITY

Service under this rate shall not be available where, in the Company's judgment, sufficient distribution system capacity does not exist in order to supply the electrical requirements of the applicant unless the Customer provides for a suitable cash payment or a satisfactory revenue guarantee to the Company, or both.

The availability of this rate is also contingent upon the availability to the Company of personnel and/or other resources necessary to provide service under this rate.

TERM

The term of service under this rate shall be one year, and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

RATE PER MONTH

Customer Charges:

Radio-Controlled Option\$6.99 per month

8-Hour, 10-Hour or 11-Hour Option~~\$6.384~~ 8.87 per month

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DBA EVERSOURCE ENERGY
Rate LCS

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

Radio-Controlled Option or 8-Hour Option..... 1.~~24~~²⁷⁵¢

10-Hour or 11-Hour Option 2.~~36~~³⁹⁵¢

Regulatory Reconciliation Adjustment:

Radio-Controlled Option or 8-Hour Option..... 0.000¢

10-Hour or 11-Hour Option 0.000¢

Transmission Charge 2.331¢

Stranded Cost Recovery (When service is taken
in conjunction with Rate R) 0.831¢

Stranded Cost Recovery (When service is taken
in conjunction with Rate G) 0.895¢

METERS

Under this rate, the Company will install one meter with appropriate load control devices.

ELECTRIC THERMAL STORAGE EQUIPMENT APPROVED FOR LOAD CONTROL

Load Controlled Service is available under this rate to electric thermal storage installations meeting the Company's specifications as to type, size and electrical characteristics in accordance with the following guidelines.

I. Electric Thermal Storage Space Heating Equipment

Adequate control and switching equipment must be installed to provide capability for staggering the commencement of the charging period with respect to other electric thermal storage devices and for permitting partial charging on warmer days, and for controlling service to the thermal storage devices.

The storage capability of the electric thermal storage device must be adequate to heat the Customer's whole premises under design conditions and must be properly sized to ensure a constant rate of charging during the period which service under this rate is available as determined by the Company in accordance with its customary procedures. A smaller-sized electric thermal storage device may be approved by the Company for use in the Customer's premises under the Radio-Controlled Option.

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DBA EVERSOURCE ENERGY
Rate GV

Per Kilowatt of Maximum Demand

Demand Charges:

Distribution Charges:

First 100 kilowatts..... \$6.~~90~~⁹⁹

Excess Over 100 kilowatts..... \$6.~~64~~⁷³

Regulatory Reconciliation Adjustment..... \$0.00

Transmission Charge \$10.40

Stranded Cost Recovery..... \$1.00

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

First 200,000 kilowatt-hours 0.656¢

All additional kilowatt-hours 0.583¢

Stranded Cost Recovery..... 0.987¢

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66
DBA EVERSOURCE ENERGY Rate LG

LARGE GENERAL DELIVERY SERVICE RATE LG

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for high voltage Delivery Service. It is available upon the signing of a Service Agreement for such service at specified delivery points to Customers whose loads are larger than those that would be permitted under Rate GV of this Tariff. Service rendered hereunder shall exclude all backup and standby service provided under Backup Delivery Service Rate B. Outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL. Substation foundations and structures, and suitable controlling, regulating, and transforming apparatus, all of which shall be acceptable to and approved by the Company, together with such protective equipment as the Company shall deem necessary for the protection and safe operation of its system, shall be provided at the expense of the Customer.

CHARACTER OF SERVICE

Delivery Service supplied under this rate will be three-phase, 60 hertz, alternating current, at a nominal delivery voltage determined by the Company, generally 34,500 volts or higher. A reasonably balanced load between phases shall be maintained by the Customer.

RATE PER MONTH

Customer Charge \$660.15 per month

Demand Charges:

Per Kilovolt-Ampere of Maximum Demand

Distribution Charge..... \$5.85 ~~92~~

Regulatory Reconciliation Adjustment..... \$0.00

Transmission Charge \$10.24

Stranded Cost Recovery \$0.61

Energy Charges:

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours 0.554¢

Off-Peak Hours 0.468¢

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DBA EVERSOURCE ENERGY Rate B

Demand Charges:

For Customers who take service at 115,000 volts or higher, the following charges apply:

Transmission Charge.....	\$1.59 per KW or KVA, whichever is applicable, of Backup Contract Demand
Stranded Cost Recovery (For Customers whose Standard Rate is Rate GV)...	\$0.49 per KW or KVA, whichever is applicable, of Backup Contract Demand
Stranded Cost Recovery (For Customers whose Standard Rate is Rate LG)....	\$0.30 per KW or KVA, whichever is applicable, of Backup Contract Demand

For all other Customers, in addition to the charges applicable to the Customers who take service at 115,000 volts or higher, the following additional charge applies:

Distribution Charge.....	\$5. 37 ⁴² per KW or KVA, whichever is applicable, of Backup Contract Demand
Regulatory Reconciliation Adj.	\$X.XX per KW or KVA, whichever is applicable, of Backup Contract Demand

Energy Charges:

The energy charges contained in the Standard Rate for Delivery Service, except that the distribution charge is not applicable to Customers who take service at 115,000 volts or higher.

METERING

Metering shall be provided by the Company in accordance with the provisions of the Customer's Standard Rate, except as modifications to such metering may be required by the provisions of this rate. The Company may install any metering equipment necessary to accomplish the purposes of this rate, including the measurement of output from the Customer's generating facilities. Customer shall provide suitable meter locations for the Company's metering facilities. All costs of metering equipment in excess of costs normally incurred by the Company to provide service under Customer's Standard Rate shall be borne by the Customer.

REFUSAL TO PROVIDE ACCESS

In the event that the Customer refuses access to its premises to allow the Company to install metering equipment to measure the output of the Customer's generating facilities, the Company may estimate the amount of demand and energy delivered under this rate. The Customer shall be responsible for payment of all bill amounts calculated hereunder based on such estimates of demand and energy delivered.

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 Rate OL

All-Night Service Option:

The monthly kilowatt-hours and distribution rates for each luminaire served under the all-night service option are shown below.

For New and Existing Installations:

<u>Lamp Nominal</u>		<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>													
<u>Lumens</u>	<u>Watts</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
High Pressure Sodium:														
4,000	50	27	23	22	19	16	16	16	18	21	23	24	27	\$15.4256
5,800	70	40	34	32	29	24	23	24	27	31	35	37	40	15.4256
9,500	100	59	50	47	42	35	34	35	39	46	51	53	59	20.5169
16,000	150	88	74	70	62	53	51	53	59	68	76	79	88	29.0126
30,000	250	142	120	113	101	85	82	85	95	110	123	128	142	29.7398
50,000	400	217	183	173	154	130	126	130	144	168	188	196	217	30.0632
130,000	1,000	510	430	408	362	306	296	306	340	395	442	460	510	48.2466

Metal Halide:

5,000	70	37	31	30	25	23	20	22	25	28	33	35	38	\$16.0923
8,000	100	51	42	41	35	31	28	30	34	38	45	48	53	22.0221
13,000	150	80	66	65	54	49	44	47	54	60	71	76	82	30.2148
13,500	175	96	81	77	68	57	56	57	64	74	83	87	96	30.8631.12
20,000	250	134	113	107	95	80	78	80	89	104	116	121	134	30.8631.12
36,000	400	209	176	167	149	126	122	126	140	162	181	189	209	31.1441
100,000	1,000	502	423	402	356	301	292	301	335	389	435	454	502	46.6847.08

Light Emitting Diode (LED):

2,500	28	13	11	10	9	8	8	8	9	10	11	11	13	\$10.1827
4,100	36	17	14	13	12	10	10	10	11	13	15	15	17	10.1625
4,800	51	24	20	19	17	14	14	14	16	18	21	21	24	10.3241
8,500	92	43	36	34	30	26	25	26	29	33	37	39	43	11.3545
13,300	142	66	56	53	47	40	38	40	44	51	57	60	66	12.5465
24,500	220	102	86	82	73	61	59	61	68	79	89	92	102	15.7286

For Existing Installations Only:

<u>Lamp Nominal</u>		<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
Incandescent:														
600	105	49	41	39	35	29	28	29	33	38	42	44	49	\$8.8996
1,000	105	49	41	39	35	29	28	29	33	38	42	44	49	9.9210.00
2,500	205	95	80	76	68	57	55	57	64	74	83	86	95	12.7384
6,000	448	208	176	167	148	125	121	125	139	161	181	188	208	21.8622.05

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<u>Lamp</u>	<u>Nominal</u>	<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
Mercury:														
3,500	100	54	46	44	39	33	32	33	36	42	47	49	54	\$13.6072
7,000	175	95	80	76	68	57	55	57	64	74	83	86	95	16.3751
11,000	250	136	114	109	96	81	79	81	91	105	118	123	136	20.2441
15,000	400	211	178	169	149	126	122	126	140	163	183	190	211	23.1535
20,000	400	211	178	169	149	126	122	126	140	163	183	190	211	24.9925.21
56,000	1,000	503	424	403	357	302	292	302	335	390	436	454	503	39.7240.07

Fluorescent:														
20,000	330	153	129	123	109	92	89	92	102	119	133	139	153	\$33.9034.19
High Pressure Sodium in Existing Mercury Luminaires:														
12,000	150	84	71	67	59	50	49	50	56	65	73	76	84	21.2140
34,200	360	192	162	154	136	115	112	115	128	149	166	173	192	27.1639

The 15,000 Lumen Mercury fixture is fitted with a 20,000 lumen lamp. The 600 Lumen Incandescent fixture is fitted with a 1,000 lumen lamp.

Midnight Service Option:

The monthly kilowatt-hours and distribution rates for each luminaire served under the midnight service option are shown below.

<u>Lamp</u>	<u>Nominal</u>	<u>Monthly KWH per Luminaire</u>												<u>Monthly</u>
<u>Light</u>	<u>Power</u>													<u>Distribution</u>
<u>Output</u>	<u>Rating</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Rate</u>
<u>Lumens</u>	<u>Watts</u>													
High Pressure Sodium:														
4,000	50	14	11	9	10	7	6	6	7	9	11	13	14	\$15.4256
5,800	70	20	16	13	15	11	9	9	11	13	16	20	21	15.4256
9,500	100	30	23	20	21	16	13	14	16	19	24	28	31	20.5169
16,000	150	44	34	29	31	24	20	21	24	28	35	42	47	29.0126
30,000	250	71	56	47	51	38	32	33	38	46	57	69	76	29.7398
50,000	400	109	85	72	77	58	49	51	58	70	87	105	116	30.0632
130,000	1,000	255	200	170	181	136	115	119	136	165	204	246	272	48.2466
Metal Halide:														
5,000	70	20	16	14	15	11	9	10	11	13	17	20	22	\$16.0923
8,000	100	28	22	19	20	15	13	13	15	18	23	27	30	22.0221
13,000	150	44	34	30	31	24	20	21	24	28	36	43	47	30.2148
13,500	175	48	38	32	34	25	22	22	26	31	38	47	51	30.8631.12
20,000	250	67	52	45	48	36	30	31	36	43	54	65	71	30.8631.12
36,000	400	104	82	70	74	56	47	49	56	68	84	101	111	31.1441
100,000	1,000	251	196	167	178	134	114	117	134	162	201	243	268	46.6847.08

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Lamp Nominal		Monthly KWH per Luminaire												Monthly
Light Output	Power Rating													Distribution
Lumens	Watts	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Rate
Light Emitting Diode (LED):														
2,500	28	7	5	4	5	3	3	3	3	4	5	6	7	\$10.1827
4,100	36	8	7	6	6	4	4	4	4	5	7	8	9	10.1625
4,800	51	12	9	8	8	6	5	6	6	8	9	11	13	10.3241
8,500	92	21	17	14	15	11	10	10	11	14	17	21	23	11.3545
13,300	142	33	26	22	23	18	15	15	18	21	26	32	35	12.5465
24,500	220	51	40	34	36	27	23	24	27	33	41	50	55	15.7286

MODIFICATION OF SERVICE OPTION

Municipal and state roadway lighting Customers may request a modification of service from the all-night service option to the midnight service option during the calendar months of January and February of each year, otherwise known as the open enrollment period. Requests received from municipal and state roadway lighting Customers after the open enrollment period shall be implemented during the subsequent open enrollment period, unless the Company determines that it is feasible and practicable to implement the request prior to the subsequent enrollment period. All other Customers may request a modification of service from the all-night service option to the midnight service option at any time. Customers requesting a modification of service from the all-night service option to the midnight service option are responsible to pay to the Company the installed cost of any additional equipment required to provide service under the midnight service option. The installed cost includes the cost of the additional equipment, labor, vehicles and overheads. The Customer is responsible to pay such costs prior to the installation of the equipment. If such a request is made concurrent with the Company's existing schedule for lamp replacement and maintenance, the Customer is responsible to pay to the Company the cost of any additional equipment required, including overheads. The Customer is responsible to pay such costs prior to the installation of the equipment.

Customers requesting a modification of service from the midnight service option to the all-night service option are responsible to pay to the Company the installation cost of the equipment required to provide service under the all-night service option. The installation cost includes the cost of labor, vehicles and overheads. The Customer is responsible to pay such costs prior to the installation of the equipment. If such a request is made concurrent with the Company's existing schedule for lamp replacement and maintenance, no additional costs are required to modify service from the midnight service option to the all-night service option.

The Company will utilize fixed price estimates per luminaire for the installed cost, the additional equipment cost and the equipment installation cost and will update the fixed price estimates per luminaire each year based upon current costs. In the event traffic control is required during a modification of service option or for equipment repair, the Customer is responsible to coordinate and to provide traffic control and to pay all costs associated with traffic control. In the event the Customer is a residential or General Delivery Service Rate G Customer, the Company may coordinate and provide traffic control on the Customer's behalf and the Customer shall reimburse the Company for all costs associated with the traffic control provided by the Company. The scheduling of work associated with the modification of a service option will be made at the Company's discretion with consideration given to minimizing travel and set-up time.

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which are billed in conjunction with service rendered under a metered Rate Schedule, the kilowatt-hours used for billing purposes shall be the amount specified for the calendar month in which the later meter read date occurred for service rendered under the metered Rate Schedule.

All-Night Service Option:

The monthly kilowatt-hours and distribution rates for each fixture served under the all-night service option are shown below.

Lamp Nominal		Monthly KWH per Fixture												Monthly
Light Output	Power Rating													Distribution
Lumens	Watts	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Rate
High Pressure Sodium:														
4,000	50	27	23	22	19	16	16	16	18	21	23	24	27	\$6.31 34
5,800	70	40	34	32	29	24	23	24	27	31	35	37	40	6.61 65
9,500	100	59	50	47	42	35	34	35	39	46	51	53	59	7.04 07
16,000	150	88	74	70	62	53	51	53	59	68	76	79	88	7.69 73
30,000	250	142	120	113	101	85	82	85	95	110	123	128	142	8.92 96
50,000	400	217	183	173	154	130	126	130	144	168	188	196	217	10.62 66
130,000	1,000	510	430	408	362	306	296	306	340	395	442	460	510	17.30 33
Metal Halide:														
5,000	70	41	35	33	29	25	24	25	28	32	36	37	41	\$6.63 67
8,000	100	56	47	45	40	34	33	34	38	44	49	51	56	6.97 7.01
13,000	150	88	74	71	63	53	51	53	59	68	77	80	88	7.70 74
13,500	175	96	81	77	68	57	56	57	64	74	83	87	96	7.87 91
20,000	250	134	113	107	95	80	78	80	89	104	116	121	134	8.74 78
36,000	400	209	176	167	149	126	122	126	140	162	181	189	209	10.45 49
100,000	1,000	502	423	402	356	301	292	301	335	389	435	454	502	17.42 45

LED's and other technologies accepted by the Company:

	Per Fixture	Per Watt
Monthly Distribution Rates	\$3. 20 <u>24</u>	\$0.01058

Monthly KWH per Fixture will be calculated to the nearest whole (1.0) KWH as follows:
 Total Fixture Wattage divided by 1,000 times the monthly hours of operation below

Monthly Hours of Operation											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
465	392	372	330	279	270	279	310	360	403	420	465

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Midnight Service Option:

The monthly kilowatt-hours and distribution rates for each fixture served under the midnight service option are shown below.

Lamp Nominal		Monthly KWH per Fixture												Monthly
Light Output	Power Rating													Distribution
Lumens	Watts	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Rate
High Pressure Sodium:														
4,000	50	14	11	9	10	7	6	6	7	9	11	13	14	\$6.3134
5,800	70	20	16	13	15	11	9	9	11	13	16	20	21	6.6165
9,500	100	30	23	20	21	16	13	14	16	19	24	28	31	7.0407
16,000	150	44	34	29	31	24	20	21	24	28	35	42	47	7.6973
30,000	250	71	56	47	51	38	32	33	38	46	57	69	76	8.9296
50,000	400	109	85	72	77	58	49	51	58	70	87	105	116	10.6266
130,000	1,000	255	200	170	181	136	115	119	136	165	204	246	272	17.3033
Metal Halide:														
5,000	70	20	16	14	15	11	9	10	11	13	17	20	22	\$6.6367
8,000	100	28	22	19	20	15	13	13	15	18	23	27	30	6.977.01
13,000	150	44	34	30	31	24	20	21	24	28	36	43	47	7.7074
13,500	175	48	38	32	34	25	22	22	26	31	38	47	51	7.8791
20,000	250	67	52	45	48	36	30	31	36	43	54	65	71	8.7478
36,000	400	104	82	70	74	56	47	49	56	68	84	101	111	10.4549
100,000	1,000	251	196	167	178	134	114	117	134	162	201	243	268	17.1215

LED's and other technologies accepted by the Company:

	Per Fixture	Per Watt
Monthly Distribution Rates	\$3.20 <u>24</u>	\$0.01058

Monthly KWH per Fixture will be calculated to the nearest whole (1.0) KWH as follows:

Total Fixture Wattage divided by 1,000 times the monthly hours of operation below

Monthly Hours of Operation											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
233	182	155	165	124	105	108	124	150	186	225	248

LEAP YEAR ADJUSTMENT TO ENERGY

During any leap year, the energy (Kilowatt-hour) usage during the month of February for all fixtures shall be increased by 3.6 percent for the purpose of determining total energy charges under this rate.

Issued: ~~December 23~~ May 3, 2020 2021

Issued by: /s/ Joseph A. Purington
Joseph A. Purington

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Title: President, NH Electric Operations