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July 20, 2021

Via electronic mail only
Dianne Martin, Chair
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301-2429

RE: Docket No. DE 21-109 - 2021 Transmission Cost Adjustment Mechanism
Public Service Company of New Hampshire d/b/a Eversource Energy

Chair Martin:

Enclosed for filing is Public Service Company of New Hampshire d/b/a Eversource Energy's ("Eversource" or the "Company") Revised Petition for Approval of Change in Transmission Cost Adjustment Mechanism ("TCAM"). Accompanying the petition are the revised testimony and exhibits of Erica L. Menard, James E. Mathews, Jennifer A. Ullram, and David J. Burnham, supporting Eversource's request.

This revised filing is being made due to an overage of the listed LNS forecasted expense in the amount of approximately $2.2 million. The correction to the forecasted LNS expense number changed the originally requested TCAM rate of 2.815 cents per kWh downward to 2.785 cents per kWh. This is in comparison to the current overall average rate of 2.758 cents per kWh. Since the change to this number necessitated a revision to the overall requested TCAM rate, in addition to certain calculations, nearly all of the documents included with the original July 8 filing had to be revised. To minimize confusion in evaluation and for presentation and discussion at hearing, the entire filing from July 8 is being refiled to reflect these revisions. All revisions have been preserved in either track changes, or have been highlighted.

Eversource is requesting approval of a forecasted retail transmission rate to be effective August 1, 2021, for a twelve-month billing period, as well as approval of the reconciliation of transmission costs and recoveries for the period of January 2020 through July 2021.

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

Regards,

Jessica A. Chiavara
Counsel, Eversource Energy

Attachment
cc: 21-109 Service List

STATE OF NEW HAMPSHIRE
before the
PUBLIC UTILITIES COMMISSION

Eversource Energy
2021 Transmission Cost Adjustment Mechanism

Docket No. DE 21-109

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY'S PETITION FOR APPROVAL OF CHANGE IN TRANSMISSION COST ADJUSTMENT MECHANISM RATE

Pursuant to N.H. Code Admin. Rule Puc 202.01 and Puc 203.06, Public Service Company of New Hampshire d/b/a Eversource Energy ("Eversource" or "the Company") petitions the Commission to establish a revised Transmission Cost Adjustment Mechanism ("TCAM") rate for effect on August 1, 2021. In support of this Petition, Eversource states as follows:

1. Consistent with the Settlement Agreement approved by the Commission in Order 24,750 (May 25, 2007), which established the TCAM, Eversource is seeking a change in the existing TCAM rate. Eversource is requesting approval of a forecasted retail transmission rate to be effective August 1, 2021, for a twelve-month billing period, as well as approval of the reconciliation of transmission costs and recoveries for the period of January 2020 through July 2021. The overall average rate for the TCAM is proposed to be 2.785 cents per kWh.

2. Accompanying this petition are the testimony and exhibits of Erica L. Menard and James E. Mathews explaining the TCAM and its calculation, including how the Company's recent lead/lag analysis is incorporated. Additionally, the Company includes the testimony and exhibits of Jennifer A. Ullram to describe the calculation of the TCAM rates applied to each rate

class, and the testimony of David J. Burnham to describe the transmission planning process at ISO-NE along with the projects included in the LNS rates that are part of the TCAM rate.

WHEREFORE, Eversource's respectfully requests that the Commission:

A. Review and approve Eversource's proposed TCAM rate change; and

B. Grant such further relief as is just and equitable.

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

Dated: July 20, 2021

By: _____
Matthew J. Fossum
Senior Regulatory Counsel
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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.

Dated: July 20, 2021

_____
Matthew J. Fossum

THE STATE OF NEW HAMPSHIRE
BEFORE THE
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

PREPARED JOINT TESTIMONY OF ERICA L. MENARD AND JAMES E. MATHEWS

TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM)

Docket No. DE 21-109

Q. Please state your names, business addresses and your present positions.

A. My name is Erica L. Menard. My business address is 780 North Commercial Street, Manchester, NH. I am employed by Eversource Energy Service Company as the Manager of New Hampshire Revenue Requirements and in that position, I provide service to Public Service Company of New Hampshire d/b/a Eversource Energy ("Eversource" or the "Company").

My name is James E. Mathews. My business address is 107 Selden Street, Berlin, CT. I am employed by Eversource Energy Service Company as the Manager of Rates and Revenue Requirements, Transmission and in that position, I provide service to the Eversource Energy affiliated companies in Connecticut, Massachusetts and New Hampshire, including the Company.

Q. Have you previously testified before the Commission?

A. Ms. Menard: Yes, I have.

A. Mr. Mathews: Yes, I have.

Q. What are your current responsibilities?

A. Ms. Menard: I am currently responsible for the coordination and implementation of revenue requirements calculations for Eversource, as well as the filings associated with Eversource's Energy Service ("ES") rate, Stranded Cost Recovery Charge ("SCRC"), Transmission Cost Adjustment Mechanism ("TCAM"), Regulatory Reconciliation Adjustment mechanism ("RRA"), and Distribution Rates.

Mr. Mathews: I am currently responsible for coordination and implementation of transmission rate and revenue requirement calculations for Eversource. I also have responsibility related to transmission rate filings before Eversource's affiliated companies' three state utility commissions, as well as the Federal Energy Regulatory Commission ("FERC").

Q. What is the purpose of your joint testimony?

A. Ms. Menard: My testimony supports Eversource's TCAM filing for rates effective August 1, 2021. The testimony and supporting attachments present the reconciliation through May 2021 for transmission costs as well as the proposed TCAM rate for the forecast period to be effective August 1, 2021.

Mr. Mathews: My testimony is to support and describe the year-to-year change in LNS and RNS rates.

Q. What is Eversource requesting in this filing?

A. Eversource is requesting approval of a forecasted average retail transmission rate to be effective August 1, 2021, for a twelve-month billing period. In addition, approval of the over- or under-recoveries resulting from the reconciliation of actual transmission costs and revenues as compared to forecasted transmission costs and revenues used in the previous rate filing is being requested. These requests are in accordance with the Commission's approval of the settlement in Docket No. DE 06-028 (Distribution Rate Case), which included a provision for a transmission cost adjustment mechanism.

Q. Will anyone else be providing testimony in support of this filing?

A. Yes. Jennifer A. Ullram and David J. Burnham are each filing testimony in support of the proposed retail transmission rates. In her testimony, Ms. Ullram will detail the rates applicable to each individual rate class. In his testimony, Mr. Burnham will be providing a description of projects included in LNS rates as well as describing the planning process at ISO-NE.

Q. Describe the types of costs included in this TCAM filing.

A. There are two different groups of costs within this TCAM filing. The first group of costs consists of four cost categories of "wholesale transmission" costs. The second group consists of two cost categories of "other transmission" costs.

The "wholesale transmission" costs are as follows:

1) Regional Network Service (RNS) costs

2) Local Network Service (LNS) costs

3) Reliability costs

4) Scheduling and Dispatch (S&D) costs.

All of these costs are regulated by the FERC. These costs are discussed below in more detail.

1) RNS costs support the regional transmission infrastructure throughout New England. RNS costs are charged to Eversource by ISO-NE based upon tariffs approved by the FERC. RNS costs are billed to all entities in the region that have RNS load responsibility, such as Eversource, based on their monthly peak load.

2) LNS costs encompass Eversource's local transmission costs that are not included in the FERC-jurisdictional RNS tariff. These billings are also governed by FERC approved tariffs and are based on costs allocated to Eversource based on load ratio share[1]. Eversource's load ratio share is calculated using a rolling twelve-month coincident peak (12 CP).

3) Reliability costs include costs such as Black Start and VAR support that are related to electric reliability. These reliability costs are billed to all entities in the

[1] The wholesale Transmission rate transparency settlement, filed at FERC on June 15, 2020, was approved by FERC on December 28, 2020 in Docket No. ER20-2054-000. Under the Settlement, effective January 1, 2022 Local Service revenue requirements will be billed based on state by state unit rates multiplied times the customer's monthly load, in a manner similar to the RNS rate.

region that have RNS load responsibility, such as Eversource, based on their monthly peak load.

4) S&D costs are associated with services provided by ISO-NE related to scheduling, system control and dispatch services. These costs are billed by ISO-NE to all entities in the region that have RNS load responsibility, such as Eversource, based on their monthly peak load, in accordance with the applicable FERC tariff.

The "other transmission" costs and credits or revenues are as follows:

A) Hydro-Québec (HQ) Phase I/II support costs and related revenues,

B) TCAM working capital allowance return, and

C) HQ Interconnection Capacity Credits.

Other transmission costs and revenues A) and B) were previously recovered through Eversource's distribution rates, but were transferred in total or in part to the TCAM for recovery, effective July 1, 2010, as part of a negotiated "Settlement Agreement on Permanent Distribution Service Rates" ("Settlement Agreement") between Eversource, the Commission Staff, and the Office of Consumer Advocate (OCA) in Docket No. DE 09-035 that was approved in Order No. 25,123. These costs and revenues are discussed below in more detail.

A) HQ Phase I/II support costs are costs associated with FERC-approved contractual agreements between Eversource and other New England utilities

to provide support for, and receive rights related to, transmission and terminal facilities that are used to import electricity from HQ in Canada. Under the amended, extended and restated agreements[2], Eversource is charged its proportionate share of O&M and capital costs for a twenty-year term that ends on October 31, 2040.

Prior to July 1, 2010, Eversource's share of any revenue associated with HQ Phase I/II was returned to customers through the ES rate. Effective July 1, 2010, consistent with the requirements of NHPUC Order No. 25,122, in the 2010 TCAM docket, Docket No. DE 10-158, Eversource began returning its share of any HQ Phase I/II revenues to customers as a revenue credit in the TCAM. That credit continues in the TCAM today[3].

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[2] On December 18, 2020 in Docket No. ER21-712-000, the Asset Owners and the IRH Management Committee ("Filing Parties") submitted to FERC for approval an Offer of Settlement ("Settlement") that amended and restated the four Support Agreements and the Use Agreement as part of a comprehensive package that will provide for ongoing financial support of, and related rights and obligations with respect to, the Phase I/II HVDC-TF. The Settlement reflected the exercise by certain IRH of rights under the existing Support Agreements to extend the term of those Support Agreements another twenty years until October 31, 2040. Further, because the Use Agreement by its own terms will remain in effect through expiration of the term of the last Support Agreement, the term of Use Agreement was also extended to October 31, 2040. The Filing Parties asserted that the Phase I/II HVDC-TF are vitally important to both the New England and Québec regions and provide a variety of benefits to consumers in New England. In an order issued on May 20, 2021, FERC accepted the Settlement, finding that it appears to be fair and reasonable and in the public interest. 175 FERC ¶ 61,140 (2020). Materials pertaining to the extension were shared with the Commission, Staff, and OCA in January 2021, and notice of FERC's acceptance of the Settlement was provided to the Commission, Staff, and OCA on May 24, 2021.

[3] On April 1, 2021, Public Service Company of New Hampshire ("PSNH") and its affiliates, The Connecticut Light and Power Company ("CL&P") and NSTAR Electric Company ("NSTAR" and together with PSNH and CL&P, "Eversource"), issued a Request for Proposals for the Reassignment of their Use Rights on the Phase I/II HVDC-TF. Proposals were requested for 100% of the Eversource Use Rights or for tranches of their combined Use Rights in bid blocks of 25%, and a fixed dollar proposal was requested. Based on the proposals received, Eversource signed agreements to reassign all of its Use Rights to H.Q. Energy

B) When the TCAM was initially approved in Docket No. DE 06-028, there was no provision for a working capital allowance in the TCAM. The TCAM working capital allowance continued to be included with the distribution working capital allowance. As part of the Settlement Agreement, the distribution revenue requirement calculation excluded working capital on transmission costs. Therefore, the TCAM includes a working capital allowance. An updated lead/lag analysis has been completed for rates effective August 1, 2021 based on the lead/lag study discussed later in this testimony.

C) HQ Interconnection Capacity Credits were historically included in the Capacity Expense/Credit portion of the ES rate. With the transition from the Eversource-owned generation energy service rates to the new market solicitation rates effective April 1, 2018, it was appropriate to start including these credits in the TCAM, as that is where HQ Phase I/II Support Costs and Revenue Credits currently are included.

Q. Please describe the overall mechanics of the TCAM as they are presented in this filing.

A. The TCAM is a mechanism that allows Eversource to fully recover defined FERC and/or Commission approved transmission costs. The proposed TCAM rate is

Services (U.S.) Inc. for a one-year term commencing June 1, 2021. All proceeds from the reassignment of Eversource's Use Rights will be credited back on a pro rata basis to the retail customers of PSNH, CL&P and NSTAR. The forecast proceeds as a result of the RFP for the period June 2021 to July 2022 are shown in Attachment ELM-1, pages 2, 3 and 5, line 19.

based on reconciliations of historic transmission costs and forecasted future transmission costs using the latest approved FERC transmission rates.

There are two premises that form the basis of the TCAM. First, the TCAM sets transmission rates for a defined future billing period based on transmission cost estimates using current budget and forecast data supported by the latest known FERC approved transmission rates. This future billing period is referred to as the "forecast period". Second, the TCAM provides all available actual cost and revenue (recovery) data referred to as the "reconciliation period". Any over- or under-recoveries that are incurred in the reconciliation period are rolled into the subsequent billing period as part of the next TCAM rate.

Q. What is the forecast period used in this filing, and what is the reconciliation period?

A. The forecast period in this filing is the twelve-month period August 2021 through July 2022. The reconciliation period includes actual results for January 2020 through May 2021 and estimated results for June and July 2021.

Q. Do the transmission rate forecasts contained in this filing reflect the most current FERC rates that were to be effective on June 1, 2021?

A. Yes. Please see the table below for the current FERC rates that are proposed for effect on August 1, 2021 and the prior year's FERC rates approved in DE 20-085:

		DE 21-109		DE 20-085		Change	
FERC Approved Rates	Description	Aug 21 to Dec 21	Jan 22 to Jul 22 **	Aug 20 to Dec 20	Jan 21 to Jul 21	Aug to Dec	Jan to Jul
RNS Rate	$ per kW per year	$ 140.98	$ 143.73	$ 129.26	$ 129.26	$ 11.72	$ 14.47
	$ per MWh	$ 30.39	$ 30.98	$ 26.44	$ 26.44	$ 3.95	$ 4.54
LNS Monthly Expense	Load Ratio Share	21.6%	79.0%	20.9%	20.9%	0.7%	58.1%
	Expense	$ 2,114,000	$ 2,059,000	$ 2,045,700	$ 2,046,000	$ 68,300	$ 13,000
	$ per MWh	$ 4.05	$ 4.23	$ 3.85	$ 3.85	$ 0.20	$ 0.38
** reflects change per the Rate Transparency Settlement approved in Docket No. ER20-2054-000							

Q. What then, is Eversource proposing as its annual TCAM rate in this filing?

A. As shown in Attachment ELM-1, page 1a, Eversource is proposing a forecasted average TCAM rate of 2.785 cents/kWh as compared to the current average rate of 2.758 cents/kWh. The increase in the average TCAM rate is driven primarily by an increase in RNS cost of $16.9M, a decrease in LNS costs of ($0.2)M, an increase in Reliability cost of $1.6M, a decrease in the forecasted under recovery of $9.0M, a decrease in the forecasted HQ Interconnection Capacity Credits of $0.9M, a decrease in Hydro Quebec Support cost of $1.5M, an increase in the forecasted Revenue Credits of $7.2M, and decreased other costs of $1.1M.

Q. In Order No. 26,031 (June 28, 2017) in Docket No. DE 17-081, the Commission noted that there have been changes in the RNS rates as a result of changes in peak demand throughout New England. In that order, the Commission noted that as other states in the region reduce their share of peak load relative to the total, New Hampshire's share of the peak, and allocation of costs, increases. The Commission stated that it expected the Company to explain its efforts to reduce peak demand in New Hampshire in future TCAM

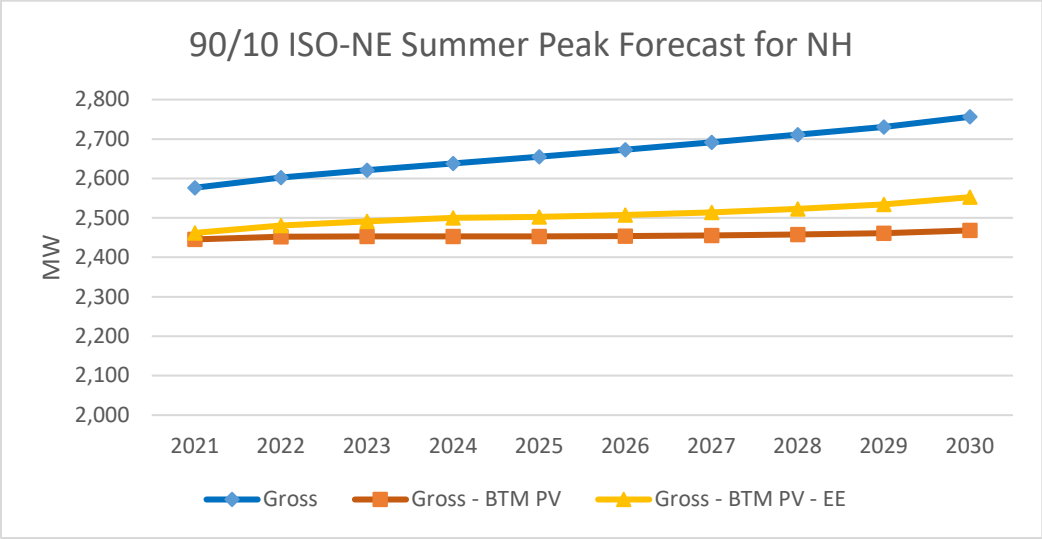
filings. What efforts has Eversource made to address peak demand in New Hampshire?

A. As the Company described during the hearing in Docket No. DE 17-081, energy efficiency programs reduce consumption of energy (kWh), and costs, for customers across New Hampshire. The efficiency measures that reduce kWh often also reduce electric demand (kW) at the ISO-NE, distribution and customer level during peak periods. The New Hampshire 3-Year Energy Efficiency Plan per Docket No. DE 17-136 included revised estimates of kW savings for 2020 during ISO-NE summer and winter peak hours. Per the end of year filing the efficiency measures installed in 2020 were estimated to achieve 11.8 MW in summer peak demand reduction and 13.5 MW in winter peak demand reduction. The settlement agreement submitted for Commission approval in Docket No. DE 20-092 for the New Hampshire 3-Year Energy Efficiency plan for 2021-2023 was filed in December 2020 included proposed estimates of kW savings. The efficiency measures proposed for 2021-2023 were estimated to achieve 42.3 MW in summer peak demand reduction and 38.4 MW in winter peak demand reduction[4]. As with the kWh savings, the demand savings will persist over the lifetime of the measures installed. The proposed 3-Year Energy Efficiency plan for 2021-2023 has not yet been approved by the Commission as of the filing of this testimony. In the interim, the Commission has ordered a short-term extension of existing 2020 Energy

[4] There has been no final Order in DE 20-092 approving the proposed plan. These figures are therefore draft and subject to change based on changes that may be made to savings assumptions, programs and other elements determined by a final Order.

Efficiency Programs and System Benefits Charge rates. As a result, budgets for 2021 are expected to track closer to those approved for 2020, with savings and peak demand reductions likely lower than those of 2020 due to new realization rates and net-to-gross factors included in the 2021 New Hampshire Technical Reference Manual.

ISO-NE has recognized the impact of these energy efficiency measures on its peak demand forecast for New Hampshire, as shown in the below chart[5]:



As is the case in New Hampshire, the majority of demand savings from energy efficiency programs in the region are achieved as a secondary benefit of the measures designed to generate kWh savings. However, New Hampshire efficiency programs have been monitoring demand management demonstrations and programs taking place in other states to advance tailored methodologies for

[5] Graphical representation of the 90/10 data contained in the Final 2021 CELT Report published May 1, 2021, using data from the 6.2 Forecasts for Transmission tab. https://www.iso-ne.com/system-planning/system-plans-studies/celt

adoption in New Hampshire. The 2018-2020 New Hampshire 3-Year Energy Efficiency Plan includes a section on Capacity Demand Management that describes many of the demand offerings being monitored as viable possibilities to model in state. In 2019 the Company proposed and implemented an active demand reduction offering: the 2019 NH Commercial and Industrial Active Demand Reduction (ADR) Initiative. Results indicated that the 2019 ADR Initiative achieved 3.9 MW in summer peak demand reduction. For 2020 the ADR Initiative was expanded to include residential offerings and results indicate a reduction of 12.0 MW in summer peak demand. For the 2021-2023 term, the Company will build upon the demonstrations offered in 2019 and 2020 and explore new active demand reduction offerings during the term. Based upon its success to date, the Company has proposed shifting the Commercial and Industrial demonstration to a full program for the 2021-2023 term. The active demand measures proposed for 2021-2023 were estimated to achieve 44.3 MW in summer peak demand reduction.

Q. Has Eversource taken any other direct efforts to reduce peak demand in New Hampshire?

A. Yes, Eversource has developed a Commercial and Industrial Demand Reduction Initiative as part of its energy efficiency offerings. This initiative was approved as part of the 2019 Update plan in Docket No. DE 17-136. Under an ADR approach, customers agree to respond to an event call targeting conditions that typically result in peak reductions through curtailment service providers ("CSPs")—vendors who identify curtailable load, enroll customers, manage curtailment events, and

calculate payments. The customer is incentivized to respond to event calls using performance-based incentives. This approach is technology agnostic and can utilize single end-use control strategies or a multitude of approaches that can reduce demand when an event is called. This typically entails customers using lighting with both manual and automated controls, HVAC with both manual and automated controls, process loads, scheduling changes, excess Combined Heat & Power (CHP) capacity, and energy storage to reduce demand. The residential ADR demonstration and proposed program consists of two main bring-your-own-device offerings: Battery Storage and Wi-Fi thermostats. For the 2021-2023 term, the New Hampshire Utilities will also explore electric vehicle (EV) load management as a third offering.

Q. Did Eversource conduct a lead/lag study for the TCAM as required in Order No. 25,912, dated June 28, 2016, in Docket No. DE 16-566?

A. Yes, Eversource conducted a lead/lag study for the TCAM and provides that analysis as Attachment ELM-2. The results of the lead/lag analysis will be applied effective August 1, 2021. This lead/lag study methodology is substantially the same as the one provided in Docket No. DE 20-085.

Q. How is cash working capital estimated through a lead-lag study?

A. A lead/lag study identifies the amount of time it typically takes for the Company to collect revenue from customers, as well as the amount of time the Company takes

to make payment for applicable operating costs. The difference between those two numbers is used as the basis to estimate cash working capital requirements.

Q. Please describe the lead/lag study completed for the TCAM provided as Attachment ELM-2.

A. The Lead/Lag Study consists of 15 pages of calculations and supporting schedules to calculate working capital allowances by month for RNS, S&D, LNS, Reliability, Hydro Quebec Interconnection Capacity Credits (HQ ICC), and HQ support components. Revenue lag days are the same for all components, however expense lead days vary by component. Each component has a separate expense lead days schedule.

Q. Please define the terms "revenue lag days" and "expense lead days."

A. Revenue lag is the time, measured in days, between delivery of a service to Eversource customers and the receipt by Eversource of the payment for such service. Similarly, expense lead is the time, again measured in days, between the performance of a service on behalf of Eversource by a vendor or employee and payment for such service by Eversource. Since base rates are based on revenue and expenses booked on an accrual basis, the revenue lag results in a need for capital while the expense lead offsets this need to the extent the Company is typically not required to reimburse its vendors until after a service is provided.

Q. How is the retail revenue lag computed?

A. The retail revenue lag consists of a "meter reading or service lag," "collection lag" and a "billing lag." The sum of the days associated with these three lag components is the total retail revenue lag experienced by Eversource. See Attachment ELM-2, Page 7 of 15.

Q. What lag does the Lead/Lag Study reveal for the component "meter reading or service lag?"

A. The Lead/Lag Study reveals a lag of 15.2 days. This lag was obtained by dividing the number of billing days in the test year by 12 months and then in half to arrive at the midpoint of the monthly service periods.

Q. How was the "collection lag" calculated and what was the result?

A. The "collection lag" for TCAM totaled 27.2 days. This lag reflects the time delay between the mailing of customer bills and the receipt of the billed revenues from customers. The 27.2-day lag was arrived at by a thorough examination of TCAM accounts receivable balances using the accounts receivable turnover method. End-of-month balances were utilized as the measure of customer accounts receivable. Attachment ELM-2, Page 7 details monthly balances for the majority of the accounts receivable accounts. Attachment ELM-2, Page 7 calculated the average daily revenue amount by dividing total revenue by 365 days. The resulting Collection Lag

is derived by dividing the average daily accounts receivable balance by the average daily revenue amount to arrive at the Collection lag of 27.2 days.

Q. How did you arrive at the 1.48 day "billing lag"?

A. Nearly all customers are billed the evening after the meters are read. However, if a meter is read on a Friday or prior to a scheduled holiday, there is additional lag over the weekend or holiday. Consistent with last year's filing the Company's billing lag calculation accounts for this additional lag. The updated lead/lag study uses a 1.48-day billing lag as shown in Attachment ELM-2, Page 9. An exception for large customers which may require additional time to process has not been made in this calculation.

Q. Is the total retail revenue lag computed from these separate lag calculations?

A. Yes. The total retail revenue lag of 43.9 days is computed by adding the number of days associated with each of the three retail revenue lag components. See, Attachment ELM-2, Page 7. This total number of lag days represents the amount of time between the recorded delivery of service to retail customers and the receipt of the related revenues from retail customers.

Q. Please explain how the RNS, S&D, LNS, Reliability, HQ expenses, and HQ ICC lead/lag period is determined.

A. The monthly payments were reviewed and the expense lead days were calculated based on the actual payment date of the payments. Once the lead days for each

category were determined, they were summarized and dollar weighted according to 2020 actual annual amounts to arrive at the lead days. These calculations are shown in Attachment ELM-2, pages 10 through 15.

Q. Please explain how the Eversource Energy Service Company (EESC) due date is determined related to LNS billings.

A. Per the terms of the Service Contract between the Company and EESC, bills are rendered for each calendar month on or before the twentieth day of the succeeding month and are payable upon presentation and not later than the last day of that month.

Q. Has the Company included an expense lead for the 2019 LNS true-up amount that was accounted for in July 2020? If so, please explain how the expense lead is determined relative to 2019 LNS true-up amount compared to the current month LNS billing in July 2020.

A. Yes. As shown in Attachment ELM-2, Page 12, the expense lead for the prior year 2019 LNS true up under recovery is determined by calculating the number of days from the mid-point of the true-up year (in this case 2019) to the payment date. This results in a longer expense lead compared to the current month LNS billing that is paid on the same day.

Q. Please explain how the change in RNS rates impacts the Company's proposed revenue requirement.

A. The RNS rate effective June 1, 2021 and January 1, 2022 increased as compared to the prior RNS rate due to forecasted incremental investments in transmission infrastructure. The TCAM thus reflects higher RNS costs attributable to the Company in accordance with applicable FERC-approved tariffs.

Q. Would you summarize the Company's proposal regarding Cash Working Capital?

A. Based on the results of the lead/lag analysis of Eversource TCAM Cash Working Capital, the Company identified an RNS working capital component of (19.4) days, or (5.32) percent, an S&D working capital component of (19.4) days, or (5.32) percent, an LNS working capital component of (131.4) days, or (35.99) percent, a Reliability working capital component of (19.4) days, or (5.31) percent, an HQ Expense working capital component of 44.7 days, or 12.24 percent, and an HQ ICC working capital component of (19.5) days or (5.35) percent. Application of these values results in a total forecasted cash working capital allowance of ($20.346) million and a forecasted return on working capital of ($1.780) million for the forecasted period of August 2021 through July 2022.

Q. Does Eversource require Commission approval of this rate by a specific date?

A. Yes, Eversource is requesting final approval of the proposed TCAM rate change by July 26, 2021 to allow for the implementation of an August 1, 2021 change in rates.

Q. Does this conclude your testimony?

A. Yes, it does.

Docket No. DE 21-109
Dated: July 20, 2021
Attachment ELM-1
Index

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION

Page	**Attachment ELM - 1**

Docket No. DE 21-109
Dated: July 20, 2021
Attachment ELM-1
Page 1

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
(Dollars in 000s)

	TCAM Rate Calculation August 2021 Through July 2022	Forecast Summary	Reference: Attachment ELM-1
1			
2			
3	Regional Network Service (RNS)	$ 187,667	Page 3
4	Scheduling and Dispatch (S&D)	2,461	Page 3
5	Local Network Service (LNS)	27,146	Page 3
6	Reliability	7,633	Page 3
7	Hydro-Quebec Interconnection Capacity Credits	(5,556)	Page 3
8	Hydro-Quebec Support Costs	3,513	Page 3
9	Return on TCAM Working Capital	(1,712)	Page 3
10	Revenue Credits	(12,176)	Page 3
11			
12	Total Forecasted Costs	$ 208,977	
13			
14	Cumulative Estimated (Over) / Under Recovery	4,778	Page 6
15			
16	Total Costs	$ 213,755	
17			
18	Forecasted Retail MWH Sales	7,673,863	Page 3
19			
20	Forecasted TCAM Rate--cents per kWh	2.785	
21			
22			
23			
24	Amounts shown above may not add due to rounding.		

Docket No. DE 21-109
Dated: July 20, 2021
Attachment ELM-1
Page 1a

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
(Dollars in 000s)

Note: This schedule is provided as an aid to analysis and is not part of the rate calculation

	TCAM Rate Calculation	(A) Forecast	(B) Currently Allowed (1)	(C) (A)-(B)=(C)
1	**Comparison of Forecast to Currently Allowed**	**12 mths-07/2022**	**12 mths-07/2021**	**Delta**
2				
3	Regional Network Service (RNS)	$ 187,667	$ 170,758	$ 16,910
4	Scheduling and Dispatch (S&D)	2,461	2,312	149
5	Local Network Service (LNS)	27,146	27,371	(224)
6	Reliability	7,633	6,048	1,586
7	Hydro-Quebec Interconnection Capacity Credits	(5,556)	(6,409)	853
8	Hydro-Quebec Support Costs	3,513	4,969	(1,456)
9	Return on TCAM Working Capital	(1,712)	(481)	(1,231)
10	Revenue Credits	(12,176)	(4,969)	(7,207)
11				
12	Sub-total	$ 208,977	$ 199,597	$ 9,380
13				
14	Prior Period (Over) / Under Recovery	4,778	13,821	(9,043)
15				
16	Total	$ 213,755	$ 213,418	$ 337
17				
18	Retail MWH Sales	7,673,863	7,737,205	(63,342)
19				
20	TCAM Rate--cents per kWh	2.785	2.758	0.027
21				
22	(1) DE 20-085; Order No. 26,386 dated July 31, 2020			
23				
24	Amounts shown above may not add due to rounding.			

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
August 2021 through January 2022
(Dollars in 000s)

		Forecast						
		August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	Six Months August-January Subtotal
1	**Retail Transmission Cost**							
2								
3	Regional Network Service (RNS)	19,780	18,353	16,754	13,405	13,835	15,182	97,309
4								
5	Scheduling and Dispatch (S&D)	262	243	222	178	183	197	1,286
6								
7	Local Network Service (LNS) (1)	2,295	2,295	2,295	2,295	2,295	2,253	13,726
8								
9	Reliability	630	630	630	630	630	630	3,781
10								
11	Hydro-Quebec Interconnection Capacity Credits	(476)	(476)	(476)	(476)	(476)	(476)	(2,859)
12								
13	Hydro-Quebec Support Costs	316	316	316	316	316	276	1,856
14								
15	Return on TCAM Working Capital Allowance (2))	(163)	(156)	(149)	(133)	(135)	(140)	(876)
16								
17	(Over) Recovery TCAM, previous TCAM Year	4,778	-	-	-	-	-	4,778
18								
19	Revenue Credits (3)	(1,015)	(1,015)	(1,015)	(1,015)	(1,015)	(1,015)	(6,088)
20								
21	Retail Transmission Operating Costs	$ 26,406	$ 20,189	$ 18,577	$ 15,200	$ 15,633	$ 16,908	$ 112,913
22								
23	Estimated Retail MWH Sales	716,323	602,148	597,054	591,264	664,259	698,502	3,869,550
24								
25								
26	Note 1 - LNS includes the following:							
27		August 2021	September 2021	October 2021	November 2021	December 2021	January 2022	August-January Subtotal
28								
29	LNS - ISO-NE Current Month	$ 2,114	$ 2,114	$ 2,114	$ 2,114	$ 2,114	$ 2,073	$ 12,643
30	LNS - ISO-NE Prior Year True-Up	-	-	-	-	-	-	-
31	LNS - HQ Current Month	181	181	181	181	181	181	1,083
32	LNS Total	$ 2,295	$ 2,295	$ 2,295	$ 2,295	$ 2,295	$ 2,253	$ 13,726
33								
34	Note 2 - The return on the working capital allowance is based on the calculation provided in the Lead/Lag Analysis Attachment ELM-2, Page 1, Line 21.							
35								
36	Note 3 - Revenue credits represent Hydro-Quebec (H-Q) revenues associated with the H-Q support contract.							
37								
38								
39	Amounts shown above may not add due to rounding.							

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
February 2022 through July 2022
(Dollars in 000s)

		Forecast							
		February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	Six Months February-July Subtotal	Twelve Months August 21 - July 22 Total
1	**Retail Transmission Cost**								
2									
3	Regional Network Service (RNS)	15,891	14,777	14,220	12,578	15,134	17,758	90,358	187,667
4									
5	Scheduling and Dispatch (S&D)	207	192	185	164	197	231	1,175	2,461
6									
7	Local Network Service (LNS) (1)	2,350	2,198	2,122	1,898	2,247	2,605	13,420	27,146
8									
9	Reliability	630	645	645	645	645	645	3,853	7,633
10									
11	Hydro-Quebec Interconnection Capacity Credits	(476)	(476)	(476)	(476)	(395)	(395)	(2,697)	(5,556)
12									
13	Hydro-Quebec Support Costs	276	276	276	276	276	276	1,657	3,513
14									
15	Return on TCAM Working Capital Allowance (2)	(147)	(137)	(132)	(117)	(140)	(164)	(836)	(1,712)
16									
17	(Over) Recovery TCAM, previous TCAM Year	-	-	-	-	-	-	-	4,778
18									
19	Revenue Credits (3)	(1,015)	(1,015)	(1,015)	(1,015)	(1,015)	(1,015)	(6,088)	(12,176)
20									
21	Retail Transmission Operating Costs	$ 17,716	$ 16,460	$ 15,825	$ 13,952	$ 16,948	$ 19,941	$ 100,842	$ 213,755
22									
23	Estimated Retail MWH Sales	614,564	661,574	582,532	581,373	632,873	731,396	3,804,312	7,673,863
24									
25	Note 1 - LNS includes the following:								
26		February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	February-July Subtotal	
27									
28	LNS - ISO-NE Current Month	2,170	2,018	1,942	1,717	2,066	2,425	$ 12,337	
29	LNS - ISO-NE Prior Year True-Up	-	-	-	-	-	-	-	
30	LNS - HQ Current Month	181	181	181	181	181	181	1,083	
31	LNS Total	$ 2,350	$ 2,198	$ 2,122	$ 1,898	$ 2,247	$ 2,605	$ 13,420	
32									
33	Note 2 - The return on the working capital allowance is based on the calculation provided in the Lead/Lag Analysis Attachment ELM-2, Page 2, Line 21.								
34									
35	Note 3 - Revenue credits represent Hydro-Quebec (H-Q) revenues associated with the H-Q support contract.								
36									
37									
38	Amounts shown above may not add due to rounding.								

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
January 2020 - July 2020
(Dollars in 000s)

			Actual								
		Balance 12/31/2019	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	Total	Reference
1	**Retail Transmission Costs**										
2											
3	Retail Transmission Operating Revenues		$ (13,618)	$ (12,266)	$ (12,900)	$ (11,208)	$ (11,866)	$ (14,268)	$ (16,060)	$ (92,186)	ELM-1, Pg 7
4											
5	Regional Network Service (RNS)		12,117	11,609	10,893	10,073	9,679	12,571	15,071	82,012	
6											
7	Scheduling and Dispatch		172	165	155	143	138	179	203	1,156	
8											
9	Local Network Service (LNS) (1)		2,236	2,231	2,237	2,341	2,358	2,537	17,843	31,784	
10											
11	Reliability		481	505	514	497	481	497	590	3,565	
12											
13	Hydro-Quebec Interconnection Capacity Credits		(718)	(709)	(717)	(718)	(743)	(735)	(431)	(4,771)	
14											
15	Hydro-Quebec Support Costs		310	365	293	338	370	419	388	2,483	
16											
17	Return on TCAM Working Capital Allowance (2)		(45)	(42)	(40)	(35)	(33)	(45)	(32)	(272)	
18											
19	Revenue Credits (3)		(310)	(365)	(293)	(338)	(370)	(419)	(410)	(2,505)	
20											
21	Retail Transmission Operating Costs		$ 14,244	$ 13,759	$ 13,042	$ 12,302	$ 11,880	$ 15,004	$ 33,223	$ 113,453	
22											
23	(Over) / Under-Recovery		$ 626	$ 1,492	$ 142	$ 1,094	$ 14	$ 736	$ 17,164	$ 21,268	
24											
25	Cumulative (Over) / Under-Recovery (4)	$ (9,894)	$ (9,268)	$ (7,775)	$ (7,633)	$ (6,540)	$ (6,526)	$ (5,790)	$ 11,374		
26											
27	**Calculation of Return/Deferral**										
28											
29	Average Balance		(9,581)	(8,522)	(7,704)	(7,087)	(6,533)	(6,158)	2,792		
30											
31	Deferred tax calculation--										
32	Deferred tax rate		27.083%	27.083%	27.083%	27.083%	27.083%	27.083%	27.083%		
33											
34	ADIT on the average balance		$ 2,595	$ 2,308	$ 2,087	$ 1,919	$ 1,769	$ 1,668	$ (756)		
35											
36	Average Balance, Net of ADIT		$ (6,986)	$ (6,214)	$ (5,618)	$ (5,167)	$ (4,764)	$ (4,490)	$ 2,036		
37											
38	x Return at Prime Rate		0.3958%	0.3958%	0.3150%	0.2708%	0.2708%	0.2708%	0.2708%		
39											
40	Return-Monthly		$ (28)	$ (25)	$ (18)	$ (14)	$ (13)	$ (12)	$ 6	$ (103)	
41											
42	Cumulative Return		$ (28)	$ (52)	$ (70)	$ (84)	$ (97)	$ (109)	$ (103)		
43											
44	Cumulative (Over) / Under Recovery, Including Return		$ (9,295)	$ (7,828)	$ (7,703)	$ (6,624)	$ (6,623)	$ (5,899)	$ 11,270		
45											
46	Note 1 - LNS includes the following:										
47	LNS - ISO-NE Current Month		$ 2,011	$ 2,022	$ 2,026	$ 2,025	$ 2,049	$ 2,132	$ 2,086	$ 14,350	
48	LNS - ISO-NE Prior Year True-Up		-	-	-	-	-	-	15,546	15,546	
49	LNS - HQ Current Month		225	209	211	317	310	405	212	1,888	
50	LNS Total		$ 2,236	$ 2,231	$ 2,237	$ 2,341	$ 2,358	$ 2,537	$ 17,843	$ 31,784	
51											
52	Note 2 - The return on the working capital allowance per Attachment ELM-2, Page 3, Line 18.										
53											
54	Note 3 - Revenue credits include Hydro-Quebec revenues.										
55											
56	Note 4 - Cumulative (Over) / Under Recovery at 12/31/2019 per DE 20-085 Attachment ELM-1, Page 4, Line 44										
57											
58	Amounts shown above may not add due to rounding.										

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
August 2020 - January 2021
(Dollars in 000s)

		Actual								
		Balance	August	September	October	November	December	January		
1	**Retail Transmission Costs**	07/31/2020	2020	2020	2020	2020	2020	2021	Total	Reference
2										
3	Retail Transmission Operating Revenues		$ (18,809)	$ (18,660)	$ (16,822)	$ (16,894)	$ (18,777)	$ (18,040)	$ (108,002)	ELM-1, Pg 8
4										
5	Regional Network Service (RNS)		18,452	17,546	14,012	11,313	12,898	13,897	88,118	
6										
7	Scheduling and Dispatch		249	237	189	153	174	112	1,114	
8										
9	Local Network Service (LNS) (1)		2,263	2,258	2,271	2,248	2,083	2,341	13,464	
10										
11	Reliability		533	602	582	555	475	591	3,337	
12										
13	Hydro-Quebec Interconnection Capacity Credits		(578)	(576)	(584)	(567)	(583)	(577)	(3,465)	
14										
15	Hydro-Quebec Support Costs		368	312	334	205	236	270	1,726	
16										
17	Return on TCAM Working Capital (2)		(63)	(59)	(40)	(28)	(37)	(36)	(264)	
18										
19	Revenue Credits (3)		(368)	(312)	(334)	(205)	(236)	(270)	(1,726)	
20										
21	Retail Transmission Operating Costs		$ 20,857	$ 20,008	$ 16,429	$ 13,673	$ 15,009	$ 16,328	$ 102,304	
22										
23	(Over) / Under-Recovery		$ 2,048	$ 1,348	$ (392)	$ (3,220)	$ (3,768)	$ (1,712)	$ (5,697)	
24										
25	Cumulative (Over) / Under-Recovery	$ 11,270	$ 13,318	$ 14,666	$ 14,274	$ 11,053	$ 7,285	$ 5,573		
26										
27	**Calculation of Return/Deferral**									
28										
29	Average Balance		12,294	13,992	14,470	12,663	9,169	6,429		
30										
31	Deferred tax calculation--									
32	Deferred tax rate		27.083%	27.083%	27.083%	27.083%	27.083%	27.083%		
33										
34	ADIT on the average balance		$ (3,330)	$ (3,789)	$ (3,919)	$ (3,430)	$ (2,483)	$ (1,741)		
35										
36	Average Balance, Net of ADIT		$ 8,964	$ 10,202	$ 10,551	$ 9,234	$ 6,686	$ 4,688		
37										
38	x Return at Prime Rate		0.2708%	0.2708%	0.2708%	0.2708%	0.2708%	0.2708%		
39										
40	Return-Monthly		$ 24	$ 28	$ 29	$ 25	$ 18	$ 13	$ 136	
41										
42	Cumulative Return		$ 24	$ 52	$ 80	$ 105	$ 124	$ 136		
43										
44	Cumulative (Over) / Under Recovery, Including Return		$ 13,342	$ 14,718	$ 14,354	$ 11,159	$ 7,408	$ 5,709		
45										
46	Note 1 - LNS includes the following:									
47	LNS - ISO-NE Current Month		$ 2,104	$ 2,114	$ 2,130	$ 2,132	$ 2,140	$ 2,132	$ 12,751	
48	LNS - ISO-NE Prior Year True-Up		-	-	-	-	-	-	-	
49	LNS - HQ Current Month		159	144	141	117	(57)	209	712	
50	LNS Total		$ 2,263	$ 2,258	$ 2,271	$ 2,248	$ 2,083	$ 2,341	$ 13,464	
51										
52	Note 2 - The return on the working capital allowance per Attachment ELM-2, Page 4, Line 21.									
53										
54	Note 3-- Revenue credits include Hydro-Quebec revenues.									
55										
56	Amounts shown above may not add due to rounding.									

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
February 2021 - July 2021
(Dollars in 000s)

		Actual					Forecast			
		Balance 01/31/2021	February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	Total	Reference
1	**Retail Transmission Costs**									
2										
3	Retail Transmission Operating Revenues		$ (17,955)	$ (17,092)	$ (15,369)	$ (16,886)	$ (17,643)	$ (20,204)	$ (105,149)	ELM-1, Pg 9
4										
5	Regional Network Service (RNS)		13,427	13,484	13,166	10,731	14,707	17,281	82,796	
6										
7	Scheduling and Dispatch (S&D)		112	107	105	88	182	229	823	
8										
9	Local Network Service (LNS) (1)		2,285	2,294	2,331	10,004	2,418	2,295	21,627	
10										
11	Reliability		621	631	641	618	630	630	3,771	
12										
13	Hydro-Quebec Interconnection Capacity Credits		(573)	(579)	(578)	(585)	(476)	(476)	(3,268)	
14										
15	Hydro-Quebec Support Costs		210	212	222	241	243	316	1,445	
16										
17	Return on TCAM Working Capital (2)		(36)	(36)	(34)	66	(41)	(54)	(134)	
18										
19	Revenue Credits (3)		(210)	(212)	(222)	(241)	(1,015)	(1,015)	(2,915)	
20										
21	Retail Transmission Operating Costs		$ 15,836	$ 15,902	$ 15,632	$ 20,922	$ 16,648	$ 19,206	$ 104,146	
22										
23	(Over) / Under-Recovery		$ (2,118)	$ (1,190)	$ 263	$ 4,036	$ (995)	$ (998)	$ (1,002)	
24										
25	Cumulative (Over) / Under-Recovery	$ 5,709	$ 3,591	$ 2,401	$ 2,664	$ 6,700	$ 5,705	$ 4,707		
26										
27	**Calculation of Return/Deferral**									
28										
29	Average Balance		4,650	2,996	2,532	4,682	6,203	5,206		
30										
31	Deferred tax calculation--									
32	Deferred tax rate		0.000%	0.000%	0.000%	0.000%	0.000%	0.000%		
33										
34	ADIT on the average balance		$ -	$ -	$ -	$ -	$ -	$ -		
35										
36	Average Balance, Net of Accum. Def. Income Taxes		$ 4,650	$ 2,996	$ 2,532	$ 4,682	$ 6,203	$ 5,206		
37										
38	x Return at Prime Rate		0.2708%	0.2708%	0.2708%	0.2708%	0.2708%	0.2708%		
39										
40	Return-Monthly		$ 13	$ 8	$ 7	$ 13	$ 17	$ 14	$ 71	
41										
42	Cumulative Return		$ 13	$ 21	$ 28	$ 40	$ 57	$ 71		
43										
44	Cumulative (Over) / Under Recovery, Including Return		$ 3,604	$ 2,421	$ 2,691	$ 6,740	$ 5,762	$ 4,778		
45										
46	Note 1 - LNS includes the following:									
47	LNS - ISO-NE Current Month		$ 2,118	$ 2,125	$ 2,115	$ 2,087	$ 2,114	$ 2,114	$ 12,672	
48	LNS - ISO-NE Prior Year True-Up		-	-	-	7,656	-	-	7,656	
49	LNS - HQ Current Month		168	169	216	261	304	181	1,299	
50	LNS Total		$ 2,285	$ 2,294	$ 2,331	$ 10,004	$ 2,418	$ 2,295	$ 21,627	
51										
52	Note 2 - The return on the working capital allowance per Attachment ELM-2, Page 5, Line 21.									
53										
54	Note 3-- Revenue credits include Hydro-Quebec revenues.									
55										
56	Amounts shown above may not add due to rounding.									

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
January 2020 - July 2020
(Dollars in 000s)

		Actual							
		January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	Total
1	**Retail Transmission Revenues**								
2									
3	Transmission Revenue - Billed	$ (13,826)	$ (13,077)	$ (12,351)	$ (12,019)	$ (11,513)	$ (12,854)	$ (15,439)	$ (91,079)
4									
5	Transmission Revenue - Unbilled	$ 208	$ 811	$ (549)	$ 811	$ (353)	$ (1,414)	$ (621)	(1,107)
6									
7	**Total**	$ (13,618)	$ (12,266)	$ (12,900)	$ (11,208)	$ (11,866)	$ (14,268)	$ (16,060)	$ (92,186)
8									
9									
10	Amounts shown above may not add due to rounding.								

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
August 2020 - January 2021
(Dollars in 000s)

		Actual						
		August	September	October	November	December	January	
1	**Retail Transmission Revenues**	2020	2020	2020	2020	2020	2021	Total
2								
3	Transmission Revenue - Billed	$ (18,378)	$ (18,753)	$ (16,702)	$ (16,276)	$ (18,159)	$ (18,798)	$ (107,066)
4								
5	Transmission Revenue - Unbilled	$ (431)	$ 93	$ (120)	$ (618)	$ (618)	$ 758	(936)
6								
7	Total	$ (18,809)	$ (18,660)	$ (16,822)	$ (16,894)	$ (18,777)	$ (18,040)	$ (108,002)
8								
9								
10	Amounts shown above may not add due to rounding.							

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
February 2021 - July 2021
(Dollars in 000s)

		Actual				Forecast		
		February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	Total
1	**Retail Transmission Revenues**							
2								
3	Transmission Revenue - Billed	$ (17,951)	$ (17,884)	$ (16,477)	$ (15,304)	$ (17,643)	$ (20,204)	$ (105,463)
4								
5	Transmission Revenue - Unbilled	$ (4)	$ 792	$ 1,109	$ (1,582)	$ -	$ -	315
6								
7	**Total**	$ (17,955)	$ (17,092)	$ (15,369)	$ (16,886)	$ (17,643)	$ (20,204)	$ (105,149)
8								
9								
10	Amounts shown above may not add due to rounding.							

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
RETAIL TRANSMISSION CASH WORKING CAPITAL REQUIREMENT

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
For the 6 Months Ending January 31, 2022
Monthly Working Capital Allowance Calculation
($ in 000s)

Line	Retail Transmission Cost	Aug 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Aug-Jan Total	Source
1	Regional Network Service (RNS)	$ 19,780	$ 18,353	$ 16,754	$ 13,405	$ 13,835	$ 15,182	$ 97,309	Attachment ELM-1, Page 2, Line 3
2	(RNS) Working Capital Allowance Percent	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%		Attachment ELM-2, Page 6, Line 1
3	(RNS) Working Capital Allowance $	$ (1,053)	$ (977)	$ (892)	$ (713)	$ (736)	$ (808)	$ (5,178)	Line 1 * Line 2
4	Scheduling and Dispatch (S&D)	$ 262	$ 243	$ 222	$ 178	$ 183	$ 197	$ 1,286	Attachment ELM-1, Page 2, Line 5
5	(S&D) Working Capital Allowance Percent	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%		Attachment ELM-2, Page 6, Line 2
6	(S&D) Working Capital Allowance $	$ (14)	$ (13)	$ (12)	$ (9)	$ (10)	$ (11)	$ (68)	Line 4 * Line 5
7	Local Network Service (LNS)	$ 2,295	$ 2,295	$ 2,295	$ 2,295	$ 2,295	$ 2,253	$ 13,726	Attachment ELM-1, Page 2, Line 7
8	(LNS) Working Capital Allowance Percent	-35.99%	-35.99%	-35.99%	-35.99%	-35.99%	-35.99%		Attachment ELM-2, Page 6, Line 3
9	(LNS) Working Capital Allowance $	$ (826)	$ (826)	$ (826)	$ (826)	$ (826)	$ (811)	$ (4,941)	Line 7 * Line 8
10	Reliability	$ 630	$ 630	$ 630	$ 630	$ 630	$ 630	$ 3,781	Attachment ELM-1, Page 2, Line 9
11	(Reliability) Working Capital Allowance Percent	-5.31%	-5.31%	-5.31%	-5.31%	-5.31%	-5.31%		Attachment ELM-2, Page 6, Line 4
12	(Reliability) Working Capital Allowance $	$ (33)	$ (33)	$ (33)	$ (33)	$ (33)	$ (33)	$ (201)	Line 10 * Line 11
13	Hydro-Quebec (HQ) Support Costs	$ 316	$ 316	$ 316	$ 316	$ 316	$ 276	$ 1,856	Attachment ELM-1, Page 2, Line 13
14	(HQ Support Costs) Working Capital Allowance Percent	12.24%	12.24%	12.24%	12.24%	12.24%	12.24%		Attachment ELM-2, Page 6, Line 5
15	(HQ Support Costs) Working Capital Allowance $	$ 39	$ 39	$ 39	$ 39	$ 39	$ 34	$ 227	Line 13 * Line 14
16	Hydro-Quebec Interconnection Capacity Credits (HQICC)	$ (476)	$ (476)	$ (476)	$ (476)	$ (476)	$ (476)	$ (2,859)	Attachment ELM-1, Page 2, Line 11
17	(HQ ICC) Working Capital Allowance Percent	-5.35%	-5.35%	-5.35%	-5.35%	-5.35%	-5.35%		Attachment ELM-2, Page 6, Line 6
18	(HQ ICC) Working Capital Allowance $	$ 25	$ 25	$ 25	$ 25	$ 25	$ 25	$ 153	Line 16 * Line 17
19	Monthly Working Capital Allowance $	$ (1,862)	$ (1,785)	$ (1,699)	$ (1,518)	$ (1,541)	$ (1,604)	$ (10,008)	Line 3 + Line 6 + Line 9 + Line 12 + Line 15 + Line 18
20	Rate of Return	8.75%	8.75%	8.75%	8.75%	8.75%	8.75%		Authorized Return per DE 19-057 including tax gross up
21	**Monthly Return on Working Capital**	**$ (163)**	**$ (156)**	**$ (149)**	**$ (133)**	**$ (135)**	**$ (140)**	**(876)**	Line 19 * Line 20

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
For the 6 Months Ending July 31, 2022
Monthly Working Capital Allowance Calculation
($ in 000s)

Line	Retail Transmission Cost	Feb 2022	Mar 2022	Apr 2022	May 2022	Jun 2022	Jul 2022	Feb-Jul Total	Source
1	Regional Network Service (RNS)	$ 15,891	$ 14,777	$ 14,220	$ 12,578	$ 15,134	$ 17,758	$ 90,358	Attachment ELM-1, Page 2, Line 31
2	(RNS) Working Capital Allowance Percent	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%		Attachment ELM-2, Page 6, Line 1
3	(RNS) Working Capital Allowance $	$ (846)	$ (786)	$ (757)	$ (669)	$ (805)	$ (945)	$ (4,808)	Line 1 * Line 2
4	Scheduling and Dispatch (S&D)	$ 207	$ 192	$ 185	$ 164	$ 197	$ 231	$ 1,175	Attachment ELM-1, Page 2, Line 33
5	(S&D) Working Capital Allowance Percent	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%	-5.32%		Attachment ELM-2, Page 6, Line 2
6	(S&D) Working Capital Allowance $	$ (11)	$ (10)	$ (10)	$ (9)	$ (10)	$ (12)	$ (63)	Line 4 * Line 5
7	Local Network Service (LNS)	$ 2,350	$ 2,198	$ 2,122	$ 1,898	$ 2,247	$ 2,605	$ 13,420	Attachment ELM-1, Page 2, Line 35
8	(LNS) Working Capital Allowance Percent	-35.99%	-35.99%	-35.99%	-35.99%	-35.99%	-35.99%		Attachment ELM-2, Page 6, Line 3
9	(LNS) Working Capital Allowance $	$ (846)	$ (791)	$ (764)	$ (683)	$ (809)	$ (938)	$ (4,831)	Line 7 * Line 8
10	Reliability	$ 630	$ 645	$ 645	$ 645	$ 645	$ 645	$ 3,853	Attachment ELM-1, Page 2, Line 37
11	(Reliability) Working Capital Allowance Percent	-5.31%	-5.31%	-5.31%	-5.31%	-5.31%	-5.31%		Attachment ELM-2, Page 6, Line 4
12	(Reliability) Working Capital Allowance $	$ (33)	$ (34)	$ (34)	$ (34)	$ (34)	$ (34)	$ (204)	Line 10 * Line 11
13	Hydro-Quebec (HQ) Support Costs	$ 276	$ 276	$ 276	$ 276	$ 276	$ 276	$ 1,657	Attachment ELM-1, Page 2, Line 41
14	(HQ Support Costs) Working Capital Allowance Percent	12.24%	12.24%	12.24%	12.24%	12.24%	12.24%		Attachment ELM-2, Page 6, Line 5
15	(HQ Support Costs) Working Capital Allowance $	$ 34	$ 34	$ 34	$ 34	$ 34	$ 34	$ 203	Line 13 * Line 14
16	Hydro-Quebec Interconnection Capacity Credits (HQICC)	$ (476)	$ (476)	$ (476)	$ (476)	$ (395)	$ (395)	$ (2,697)	Attachment ELM-1, Page 2, Line 39
17	(HQ ICC) Working Capital Allowance Percent	-5.35%	-5.35%	-5.35%	-5.35%	-5.35%	-5.35%		Attachment ELM-2, Page 6, Line 6
18	(HQ ICC) Working Capital Allowance $	$ 25	$ 25	$ 25	$ 25	$ 21	$ 21	$ 144	Line 16 * Line 17
19	Monthly Working Capital Allowance $	$ (1,677)	$ (1,563)	$ (1,505)	$ (1,336)	$ (1,604)	$ (1,874)	$ (9,559)	Line 3 + Line 6 + Line 9 + Line 12 + Line 15 + Line 18
20	Rate of Return	8.75%	8.75%	8.75%	8.75%	8.75%	8.75%		Authorized Return per DE 19-057 including tax gross up
21	**Monthly Return on Working Capital**	**$ (147)**	**$ (137)**	**$ (132)**	**$ (117)**	**$ (140)**	**$ (164)**	**(836)**	Line 19 * Line 20

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
For the 7 Months Ending July 31, 2020
Monthly Working Capital Allowance Calculation
($ in 000s)

Line	Retail Transmission Cost	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Jan-Jul Total	Source
1	Regional Network Service (RNS)	$ 12,117	$ 11,609	$ 10,893	$ 10,073	$ 9,679	$ 12,571	$ 15,071	$ 82,012	Attachment ELM-1, Page 3, Line 5
2	(RNS) Working Capital Allowance Percent	-4.61%	-4.61%	-4.61%	-4.61%	-4.61%	-4.61%	-4.61%		DE 19-106 Attachment ELM/DFB-2, Page 1, Line 2
3	(RNS) Working Capital Allowance $	$ (559)	$ (535)	$ (502)	$ (465)	$ (446)	$ (580)	$ (695)	$ (3,782)	Line 1 * Line 2
4	Scheduling and Dispatch (S&D)	172	165	155	143	138	179	203	$ 1,156	Attachment ELM-1, Page 3, Line 7
5	(S&D) Working Capital Allowance Percent	-4.60%	-4.60%	-4.60%	-4.60%	-4.60%	-4.60%	-4.60%		DE 19-106 Attachment ELM/DFB-2, Page 1, Line 4
6	(S&D) Working Capital Allowance $	$ (8)	$ (8)	$ (7)	$ (7)	$ (6)	$ (8)	$ (9)	$ (53)	Line 4 * Line 5
7	Local Network Service (LNS)	2,236	2,231	2,237	2,341	2,358	2,537	17,843	$ 31,784	Attachment ELM-1, Page 3, Line 9
8	(LNS) Working Capital Allowance Percent	1.77%	1.77%	1.77%	1.77%	1.77%	1.77%	1.77%		DE 19-106 Attachment ELM/DFB-2, Page 1, Line 6
9	(LNS) Working Capital Allowance $	$ 40	$ 39	$ 40	$ 41	$ 42	$ 45	$ 316	$ 562	Line 7 * Line 8
10	Reliability	481	505	514	497	481	497	590	$ 3,565	Attachment ELM-1, Page 3, Line 11
11	(Reliability) Working Capital Allowance Percent	-4.61%	-4.61%	-4.61%	-4.61%	-4.61%	-4.61%	-4.61%		DE 19-106 Attachment ELM/DFB-2, Page 1, Line 8
12	(Reliability) Working Capital Allowance $	$ (22)	$ (23)	$ (24)	$ (23)	$ (22)	$ (23)	$ (27)	$ (164)	Line 10 * Line 11
13	Hydro-Quebec Support Costs	310	365	293	338	370	419	388	$ 2,483	Attachment ELM-1, Page 3, Line 15
14	(HQ Support Costs) Working Capital Allowance Percent	13.15%	13.15%	13.15%	13.15%	13.15%	13.15%	13.15%		DE 19-106 Attachment ELM/DFB-2, Page 1, Line 12
15	(HQ Support Costs) Working Capital Allowance $	$ 41	$ 48	$ 39	$ 44	$ 49	$ 55	$ 51	$ 327	Line 13 * Line 14
16	Hydro-Quebec Interconnection Capacity Credits	(718)	(709)	(717)	(718)	(743)	(735)	(431)	$ (4,771)	Attachment ELM-1, Page 3, Line 13
17	(HQ ICC) Working Capital Allowance Percent	-4.48%	-4.48%	-4.48%	-4.48%	-4.48%	-4.48%	-4.48%		DE 19-106 Attachment ELM/DFB-2, Page 1, Line 10
18	(HQ ICC) Working Capital Allowance $	$ 32	$ 32	$ 32	$ 32	$ 33	$ 33	$ 19	$ 214	Line 16 * Line 17
19	Monthly Working Capital Allowance	$ (476)	$ (447)	$ (423)	$ (376)	$ (351)	$ (478)	$ (346)	$ (2,897)	Line 3 + Line 6 + Line 9 + Line 12 + Line 15 + Line 18
20	Rate of Return	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%		Authorized Return per DE 09-035 including tax gross up
21	**Monthly Return on Working Capital**	**$ (45)**	**$ (42)**	**$ (40)**	**$ (35)**	**$ (33)**	**$ (45)**	**$ (32)**	**(272)**	Line 19 * Line 20

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
For the 6 Months Ending January 31, 2021
Monthly Working Capital Allowance Calculation
($ in 000s)

Line	Retail Transmission Cost	Aug 2020	Sept 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Aug-Jan Total	Source
1	Regional Network Service (RNS)	$ 18,452	$ 17,546	$ 14,012	$ 11,313	$ 12,898	$ 13,897	$ 88,118	Attachment ELM-1, Page 4, Line 5
2	(RNS) Working Capital Allowance Percent	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%		DE 20-085 Attachment ELM-2, Page 1, Line 2
3	(RNS) Working Capital Allowance $	$ (997)	$ (948)	$ (757)	$ (611)	$ (697)	$ (751)	$ (4,761)	Line 1 * Line 2
4	Scheduling and Dispatch (S&D)	$ 249	$ 237	$ 189	$ 153	$ 174	$ 112	$ 1,114	Attachment ELM-1, Page 4, Line 7
5	(S&D) Working Capital Allowance Percent	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%		DE 20-085 Attachment ELM-2, Page 1, Line 4
6	(S&D) Working Capital Allowance $	$ (13)	$ (13)	$ (10)	$ (8)	$ (9)	$ (6)	$ (60)	Line 4 * Line 5
7	Local Network Service (LNS)	$ 2,263	$ 2,258	$ 2,271	$ 2,248	$ 2,083	$ 2,341	$ 13,464	Attachment ELM-1, Page 4, Line 9
8	(LNS) Working Capital Allowance Percent	13.14%	13.14%	13.14%	13.14%	13.14%	13.14%		DE 20-085 Attachment ELM-2, Page 1, Line 6
9	(LNS) Working Capital Allowance $	$ 297	$ 297	$ 298	$ 295	$ 274	$ 308	$ 1,769	Line 7 * Line 8
10	Reliability	$ 533	$ 602	$ 582	$ 555	$ 475	$ 591	$ 3,337	Attachment ELM-1, Page 4, Line 11
11	(Reliability) Working Capital Allowance Percent	-5.43%	-5.43%	-5.43%	-5.43%	-5.43%	-5.43%		DE 20-085 Attachment ELM-2, Page 1, Line 8
12	(Reliability) Working Capital Allowance $	$ (29)	$ (33)	$ (32)	$ (30)	$ (26)	$ (32)	$ (181)	Line 10 * Line 11
13	Hydro-Quebec Support Costs	$ 368	$ 312	$ 334	$ 205	$ 236	$ 270	$ 1,726	Attachment ELM-1, Page 4, Line 15
14	(HQ Support Costs) Working Capital Allowance Percent	12.32%	12.32%	12.32%	12.32%	12.32%	12.32%		DE 20-085 Attachment ELM-2, Page 1, Line 12
15	(HQ Support Costs) Working Capital Allowance $	$ 45	$ 38	$ 41	$ 25	$ 29	$ 33	$ 213	Line 13 * Line 14
16	Hydro-Quebec Interconnection Capacity Credits	$ (578)	$ (576)	$ (584)	$ (567)	$ (583)	$ (577)	$ (3,465)	Attachment ELM-1, Page 4, Line 13
17	(HQ ICC) Working Capital Allowance Percent	-5.41%	-5.41%	-5.41%	-5.41%	-5.41%	-5.41%		DE 20-085 Attachment ELM-2, Page 1, Line 10
18	(HQ ICC) Working Capital Allowance $	$ 31	$ 31	$ 32	$ 31	$ 32	$ 31	$ 188	Line 16 * Line 17
19	Monthly Working Capital Allowance	$ (665)	$ (627)	$ (428)	$ (298)	$ (398)	$ (417)	$ (2,833)	Line 3 + Line 6 + Line 9 + Line 12 + Line 15 + Line 18
20	Rate of Return	9.40%	9.40%	9.40%	9.40%	9.40%	8.75%		Authorized Return per DE 09-035/19-057 including tax gross up
21	**Monthly Return on Working Capital**	**$ (63)**	**$ (59)**	**$ (40)**	**$ (28)**	**$ (37)**	**$ (36)**	**(264)**	Line 19 * Line 20

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
For the 6 Months Ending July 31, 2021
Monthly Working Capital Allowance Calculation
($ in 000s)

Line	Retail Transmission Cost	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Feb-Jul Total	Source
1	Regional Network Service (RNS)	$ 13,427	$ 13,484	$ 13,166	$ 10,731	$ 14,707	$ 17,281	$ 82,796	Attachment ELM-1, Page 5, Line 5
2	(RNS) Working Capital Allowance Percent	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%		DE 20-085 Attachment ELM-2, Page 1, Line 2
3	(RNS) Working Capital Allowance $	$ (725)	$ (729)	$ (711)	$ (580)	$ (795)	$ (934)	$ (4,473)	Line 1 * Line 2
4	Scheduling and Dispatch (S&D)	$ 112	$ 107	$ 105	$ 88	$ 182	$ 229	$ 823	Attachment ELM-1, Page 5, Line 7
5	(S&D) Working Capital Allowance Percent	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%	-5.40%		DE 20-085 Attachment ELM-2, Page 1, Line 4
6	(S&D) Working Capital Allowance $	$ (6)	$ (6)	$ (6)	$ (5)	$ (10)	$ (12)	$ (44)	Line 4 * Line 5
7	Local Network Service (LNS)	$ 2,285	$ 2,294	$ 2,331	$ 10,004	$ 2,418	$ 2,295	$ 21,627	Attachment ELM-1, Page 5, Line 9
8	(LNS) Working Capital Allowance Percent	13.14%	13.14%	13.14%	13.14%	13.14%	13.14%		DE 20-085 Attachment ELM-2, Page 1, Line 6
9	(LNS) Working Capital Allowance $	$ 300	$ 301	$ 306	$ 1,314	$ 318	$ 301	$ 2,841	Line 7 * Line 8
10	Reliability	$ 621	$ 631	$ 641	$ 618	$ 630	$ 630	$ 3,771	Attachment ELM-1, Page 5, Line 11
11	(Reliability) Working Capital Allowance Percent	-5.43%	-5.43%	-5.43%	-5.43%	-5.43%	-5.43%		DE 20-085 Attachment ELM-2, Page 1, Line 8
12	(Reliability) Working Capital Allowance $	$ (34)	$ (34)	$ (35)	$ (34)	$ (34)	$ (34)	$ (205)	Line 10 * Line 11
13	Hydro-Quebec Support Costs	$ 210	$ 212	$ 222	$ 241	$ 243	$ 316	$ 1,445	Attachment ELM-1, Page 5, Line 15
14	(HQ Support Costs) Working Capital Allowance Percent	12.32%	12.32%	12.32%	12.32%	12.32%	12.32%		DE 20-085 Attachment ELM-2, Page 1, Line 12
15	(HQ Support Costs) Working Capital Allowance $	$ 26	$ 26	$ 27	$ 30	$ 30	$ 39	$ 178	Line 13 * Line 14
16	Hydro-Quebec Interconnection Capacity Credits	$ (573)	$ (579)	$ (578)	$ (585)	$ (476)	$ (476)	$ (3,268)	Attachment ELM-1, Page 5, Line 13
17	(HQ ICC) Working Capital Allowance Percent	-5.41%	-5.41%	-5.41%	-5.41%	-5.41%	-5.41%		DE 20-085 Attachment ELM-2, Page 1, Line 10
18	(HQ ICC) Working Capital Allowance $	$ 31	$ 31	$ 31	$ 32	$ 26	$ 26	$ 177	Line 16 * Line 17
19	Monthly Working Capital Allowance	$ (408)	$ (410)	$ (387)	$ 758	$ (465)	$ (614)	$ (1,526)	Line 3 + Line 6 + Line 9 + Line 12 + Line 15 + Line 18
20	Rate of Return	8.75%	8.75%	8.75%	8.75%	8.75%	8.75%		Authorized Return per DE 19-057 including tax gross up
21	**Monthly Return on Working Capital**	**$ (36)**	**$ (36)**	**$ (34)**	**$ 66**	**$ (41)**	**$ (54)**	**(134)**	Line 19 * Line 20

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020

Line	Components	Revenue Lag days	Cost Lead Days	Net Lag Days	Net Lag %	Total Expense	Cash WC Requirement
		(A)	(B)	(C) = (A) - (B)	(D) = (C) / 365	(E)	(F) = (D) x (E)
1	RNS	43.9	63.3	(19.4)	-5.32%	$ 156,232,905	$ (8,313,710)
2	S&D	43.9	63.3	(19.4)	-5.32%	2,158,507	(114,940)
3	LNS	43.9	175.2	(131.4)	-35.99%	42,907,454	(15,444,422)
4	Reliability	43.9	63.2	(19.4)	-5.31%	6,311,017	(334,961)
5	HQ Expense	43.9	(0.8)	44.7	12.24%	3,939,613	482,174
6	Hydro-Quebec Interconnection Capacity Credits	43.9	63.4	(19.5)	-5.35%	(7,659,467)	409,706
7	Total / Average	43.9	84.8	(40.9)	-11.22%	$ 211,549,497	$ (23,725,859)

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
Revenue Lag

Line	Components		Total	Reference
1	Average Accounts Receivable Balance	$	13,557,857	Attachment ELM-2, Page 7, Line 14
2	Annual Transmission Revenue	$	182,147,570	Attachment ELM-1, Page 3 (Line 3 + Line 19) + Page 4 (Line 3 + Line 19) Aug to Dec
3	Average daily revenue	$	499,034	Line 2 / 365
4	Collection lag (days)		27.17	Line 1/ Line 3
5	Meter reading lag		15.21	(365/12)/2
6	Billing lag		1.48	Attachment ELM-2, Page 9, Line 13
7	Retail revenue lag (days)		43.85	Sum of Line 4 through Line 6

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
Monthly Accounts Receivable Balances

Line	Date		AR Balance
1	January 2020	$	11,594,892
2	February 2020		12,244,644
3	March 2020		12,058,842
4	April 2020		11,018,121
5	May 2020		11,725,190
6	June 2020		12,717,292
7	July 2020		12,958,108
8	August 2020		15,803,284
9	September 2020		15,719,079
10	October 2020		14,543,906
11	November 2020		15,106,145
12	December 2020		17,204,777
13	Total	$	162,694,279
14	Average	$	13,557,857

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
Billing Lag

Line No.	Month	Billing Days	Accounts Receivable Balance	Month Weight	Weighted Billing Days
	(A)	(B)	(C)	(D)	(E) = (B)*(D)
1	January	1.48	$ 11,594,892	0.07	0.11
2	February	1.59	12,244,644	0.08	0.12
3	March	1.42	12,058,842	0.07	0.11
4	April	1.40	11,018,121	0.07	0.09
5	May	1.61	11,725,190	0.07	0.12
6	June	1.40	12,717,292	0.08	0.11
7	July	1.39	12,958,108	0.08	0.11
8	August	1.48	15,803,284	0.10	0.14
9	September	1.50	15,719,079	0.10	0.14
10	October	1.55	14,543,906	0.09	0.14
11	November	1.53	15,106,145	0.09	0.14
12	December	1.39	17,204,777	0.11	0.15

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
RNS

Line	Month	Begining of Service Period	End of Service Period	Midpoint of Service Period	Payment Date	Lead Days	Payment Amount	Dollar Weighted Days
		(A)	(B)	(C)	(D)	(E) =(D)-(C)	(F)	(G) = (E)*(F)
1	January	12/01/2019	12/31/2019	12/16/2019	02/24/2020	70.0	$ 12,117,008	$ 848,190,531
2	February	01/01/2020	01/31/2020	01/16/2020	03/20/2020	64.0	11,608,675	742,955,225
3	March	02/01/2020	02/29/2020	02/15/2020	04/17/2020	62.0	10,892,557	675,338,535
4	April	03/01/2020	03/31/2020	03/16/2020	05/15/2020	60.0	10,072,849	604,370,924
5	May	04/01/2020	04/30/2020	04/15/2020	06/19/2020	64.5	9,678,563	624,267,339
6	June	05/01/2020	05/31/2020	05/16/2020	07/17/2020	62.0	12,570,900	779,395,817
7	July	06/01/2020	06/30/2020	06/15/2020	08/14/2020	59.5	15,071,433	896,750,243
8	August	07/01/2020	07/31/2020	07/16/2020	09/18/2020	64.0	18,452,243	1,180,943,567
9	September	08/01/2020	08/31/2020	08/16/2020	10/19/2020	64.0	17,546,279	1,122,961,885
10	October	09/01/2020	09/30/2020	09/15/2020	11/20/2020	65.5	14,012,143	917,795,355
11	November	10/01/2020	10/31/2020	10/16/2020	12/18/2020	63.0	11,312,639	712,696,255
12	December	11/01/2020	11/30/2020	11/15/2020	01/15/2021	60.5	12,897,615	780,305,714
13	Average					63.3	$ 156,232,905	$ 9,885,971,390

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
Scheduling & Dispatch

Line	Month	Begining of Service Period	End of Service Period	Midpoint of Service Period	Payment Date	Lead Days	Payment Amount	Dollar Weighted Days
		(A)	(B)	(C)	(D)	(E) =(D)-(C)	(F)	(G) = (E)*(F)
1	January	12/01/2019	12/31/2019	12/16/2019	02/24/2020	70.0	$ 172,482	$ 12,073,714
2	February	01/01/2020	01/31/2020	01/16/2020	03/20/2020	64.0	165,246	10,575,724
3	March	02/01/2020	02/29/2020	02/15/2020	04/17/2020	62.0	155,052	9,613,223
4	April	03/01/2020	03/31/2020	03/16/2020	05/15/2020	60.0	143,384	8,603,022
5	May	04/01/2020	04/30/2020	04/15/2020	06/19/2020	64.5	137,771	8,886,240
6	June	05/01/2020	05/31/2020	05/16/2020	07/17/2020	62.0	178,943	11,094,444
7	July	06/01/2020	06/30/2020	06/15/2020	08/14/2020	59.5	203,495	12,107,973
8	August	07/01/2020	07/31/2020	07/16/2020	09/18/2020	64.0	249,143	15,945,167
9	September	08/01/2020	08/31/2020	08/16/2020	10/19/2020	64.0	236,911	15,162,295
10	October	09/01/2020	09/30/2020	09/15/2020	11/20/2020	65.5	189,193	12,392,124
11	November	10/01/2020	10/31/2020	10/16/2020	12/18/2020	63.0	152,744	9,622,866
12	December	11/01/2020	11/30/2020	11/15/2020	01/15/2021	60.5	174,144	10,535,732
13	Average					63.3	$ 2,158,507	$ 136,612,524

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
LNS

Line	Month	Description	Begining of Service Period	End of Service Period	Midpoint of Service Period	Payment Date	Lead Days	Payment Amount	Dollar Weighted Days
			(A)	(B)	(C)	(D)	(E) =(D)-(C)	(F)	(G) = (E)*(F)
1	January	Vermont Electric Power Co	12/01/2019	12/31/2019	12/16/2019	01/24/2020	39.0	$ 95,443	$ 3,722,294
2	February	Vermont Electric Power Co	01/01/2020	01/31/2020	01/16/2020	02/26/2020	41.0	69,933	2,867,257
3	March	Vermont Electric Power Co	02/01/2020	02/29/2020	02/15/2020	03/22/2020	36.0	80,261	2,889,405
4	April	Vermont Electric Power Co	03/01/2020	03/31/2020	03/16/2020	04/25/2020	40.0	186,016	7,440,638
5	May	Vermont Electric Power Co	04/01/2020	04/30/2020	04/15/2020	05/24/2020	38.5	180,509	6,949,586
6	June	Vermont Electric Power Co	05/01/2020	05/31/2020	05/16/2020	06/26/2020	41.0	273,145	11,198,927
7	July	Vermont Electric Power Co	06/01/2020	06/30/2020	06/15/2020	07/26/2020	40.5	66,314	2,685,701
8	August	Vermont Electric Power Co	07/01/2020	07/31/2020	07/16/2020	08/28/2020	43.0	1,376	59,168
9	September	Vermont Electric Power Co	08/01/2020	08/31/2020	08/16/2020	09/26/2020	41.0	-	0
10	October	Vermont Electric Power Co	09/01/2020	09/30/2020	09/15/2020	10/22/2020	36.5	-	0
11	November	Vermont Electric Power Co	10/01/2020	10/31/2020	10/16/2020	11/15/2020	30.0	37,000	1,110,000
12	December	Vermont Electric Power Co	11/01/2020	11/30/2020	11/15/2020	12/23/2020	37.5	(187,354)	(7,025,785)
13	Subtotal	Vermont Electric Power Co					39.7	$ 802,642	$ 31,897,191
14	January	Green Mountain Power Corp.	12/01/2019	12/31/2019	12/16/2019	01/31/2020	46.0	$ 129,334	$ 5,949,351
15	February	Green Mountain Power Corp.	01/01/2020	01/31/2020	01/16/2020	02/28/2020	43.0	139,025	5,978,056
16	March	Green Mountain Power Corp.	02/01/2020	02/29/2020	02/15/2020	03/29/2020	43.0	131,139	5,638,989
17	April	Green Mountain Power Corp.	03/01/2020	03/31/2020	03/16/2020	04/30/2020	45.0	130,563	5,875,316
18	May	Green Mountain Power Corp.	04/01/2020	04/30/2020	04/15/2020	05/31/2020	45.5	129,295	5,882,915
19	June	Green Mountain Power Corp.	05/01/2020	05/31/2020	05/16/2020	06/28/2020	43.0	131,754	5,665,431
20	July	Green Mountain Power Corp.	06/01/2020	06/30/2020	06/15/2020	07/31/2020	45.5	145,646	6,626,912
21	August	Green Mountain Power Corp.	07/01/2020	07/31/2020	07/16/2020	08/30/2020	45.0	157,431	7,084,373
22	September	Green Mountain Power Corp.	08/01/2020	08/31/2020	08/16/2020	09/30/2020	45.0	143,603	6,462,125
23	October	Green Mountain Power Corp.	09/01/2020	09/30/2020	09/15/2020	10/31/2020	45.5	140,975	6,414,348
24	November	Green Mountain Power Corp.	10/01/2020	10/31/2020	10/16/2020	11/30/2020	45.0	79,742	3,588,369
25	December	Green Mountain Power Corp.	11/01/2020	11/30/2020	11/15/2020	12/31/2020	45.5	130,561	5,940,514
26	Subtotal	Green Mountain Power Corp.					44.7	$ 1,589,066	$ 71,106,697
27	January	Intercompany	01/01/2020	01/31/2020	01/16/2020	02/22/2020	37.0	$ 2,011,405	$ 74,421,985
28	February	Intercompany	02/01/2020	02/29/2020	02/15/2020	03/22/2020	36.0	2,021,748	72,782,928
29	March	Intercompany	03/01/2020	03/31/2020	03/16/2020	04/22/2020	37.0	2,025,712	74,951,344
30	April	Intercompany	04/01/2020	04/30/2020	04/15/2020	05/22/2020	36.5	2,024,648	73,899,652
31	May	Intercompany	05/01/2020	05/31/2020	05/16/2020	06/22/2020	37.0	2,048,621	75,798,977
32	June	Intercompany	06/01/2020	06/30/2020	06/15/2020	07/22/2020	36.5	2,132,482	77,835,593
33	July	Intercompany - Current Month	07/01/2020	07/31/2020	07/16/2020	08/22/2020	37.0	2,085,501	77,163,537
34	July	Intercompany - PY True-Up	01/01/2019	12/31/2019	07/01/2019	08/22/2020	418.0	15,545,990	6,498,223,820
35	August	Intercompany	08/01/2020	08/31/2020	08/16/2020	09/22/2020	37.0	2,104,098	77,851,626
36	September	Intercompany	09/01/2020	09/30/2020	09/15/2020	10/22/2020	36.5	2,114,081	77,163,957
37	October	Intercompany	10/01/2020	10/31/2020	10/16/2020	11/22/2020	37.0	2,129,839	78,804,043
38	November	Intercompany	11/01/2020	11/30/2020	11/15/2020	12/22/2020	36.5	2,131,504	77,799,896
39	December	Intercompany	12/01/2020	12/31/2020	12/16/2020	01/22/2021	37.0	2,140,117	79,184,329
40	Subtotal	Intercompany					183.0	$ 40,515,746	$ 7,415,881,687
41		New England Power					-	$ 0	$ -
42		New England Power					-	-	-
43	Subtotal	New England Power					-	$ 0	$ -
44	Average						175.2	$ 42,907,454	$ 7,518,885,575

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
Reliability

Line	Month	Begining of Service Period	End of Service Period	Midpoint of Service Period	Payment Date	Lead Days	Payment Amount	Dollar Weighted Days
		(A)	(B)	(C)	(D)	(E) =(D)-(C)	(F)	(G) = (E)*(F)
1	January	12/01/2019	12/31/2019	12/16/2019	02/24/2020	70.0	$ 481,149	$ 33,680,448
2	February	01/01/2020	01/31/2020	01/16/2020	03/20/2020	64.0	504,972	32,318,186
3	March	02/01/2020	02/29/2020	02/15/2020	04/17/2020	62.0	513,786	31,854,762
4	April	03/01/2020	03/31/2020	03/16/2020	05/15/2020	60.0	497,422	29,845,303
5	May	04/01/2020	04/30/2020	04/15/2020	06/19/2020	64.5	481,204	31,037,676
6	June	05/01/2020	05/31/2020	05/16/2020	07/17/2020	62.0	496,754	30,798,766
7	July	06/01/2020	06/30/2020	06/15/2020	08/14/2020	59.5	589,591	35,080,692
8	August	07/01/2020	07/31/2020	07/16/2020	09/18/2020	64.0	533,126	34,120,033
9	September	08/01/2020	08/31/2020	08/16/2020	10/19/2020	64.0	602,066	38,532,239
10	October	09/01/2020	09/30/2020	09/15/2020	11/20/2020	65.5	581,626	38,096,486
11	November	10/01/2020	10/31/2020	10/16/2020	12/18/2020	63.0	554,736	34,948,338
12	December	11/01/2020	11/30/2020	11/15/2020	01/15/2021	60.5	474,585	28,712,390
13	Average					63.2	$ 6,311,017	$ 399,025,321

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
HQ Expense

Line	Month	Description	Begining of Service Period	End of Service Period	Midpoint of Service Period	Payment Date	Lead Days	Payment Amount	Dollar Weighted Days
			(A)	(B)	(C)	(D)	(E) =(D)-(C)	(F)	(G) = (E)*(F)
1	January	New England Hydro Transmission - HQ Phase II	01/01/2020	01/31/2020	01/16/2020	01/15/2020	(1.0)	$ 290,507	$ (290,507)
2	February	New England Hydro Transmission - HQ Phase II	02/01/2020	02/29/2020	02/15/2020	02/14/2020	(1.0)	342,235	(342,235)
3	March	New England Hydro Transmission - HQ Phase II	03/01/2020	03/31/2020	03/16/2020	03/13/2020	(3.0)	272,929	(818,786)
4	April	New England Hydro Transmission - HQ Phase II	04/01/2020	04/30/2020	04/15/2020	04/15/2020	(0.5)	314,024	(157,012)
5	May	New England Hydro Transmission - HQ Phase II	05/01/2020	05/31/2020	05/16/2020	05/15/2020	(1.0)	351,732	(351,732)
6	June	New England Hydro Transmission - HQ Phase II	06/01/2020	06/30/2020	06/15/2020	06/15/2020	(0.5)	399,505	(199,753)
7	July	New England Hydro Transmission - HQ Phase II	07/01/2020	07/31/2020	07/16/2020	07/15/2020	(1.0)	368,443	(368,443)
8	August	New England Hydro Transmission - HQ Phase II	08/01/2020	08/31/2020	08/16/2020	08/14/2020	(2.0)	353,537	(707,074)
9	September	New England Hydro Transmission - HQ Phase II	09/01/2020	09/30/2020	09/15/2020	09/15/2020	(0.5)	289,757	(144,879)
10	October	New England Hydro Transmission - HQ Phase II	10/01/2020	10/31/2020	10/16/2020	10/15/2020	(1.0)	313,088	(313,088)
11	November	New England Hydro Transmission - HQ Phase II	11/01/2020	11/30/2020	11/15/2020	11/17/2020	1.5	189,129	283,693
12	December	New England Hydro Transmission - HQ Phase II	12/01/2020	12/31/2020	12/16/2020	12/15/2020	(1.0)	214,815	(214,815)
13	Subtotal	New England Hydro Transmission - HQ Phase II					(1.0)	$ 3,699,701	$ (3,624,629)
14	January	Vermont Electric Transmission Co.	01/01/2020	01/31/2020	01/16/2020	01/21/2020	5.0	11,805	59,023
15	February	Vermont Electric Transmission Co.	02/01/2020	02/29/2020	02/15/2020	02/14/2020	(1.0)	9,909	(9,909)
16	March	Vermont Electric Transmission Co.	03/01/2020	03/31/2020	03/16/2020	03/18/2020	2.0	12,271	24,541
17	April	Vermont Electric Transmission Co.	04/01/2020	04/30/2020	04/15/2020	04/21/2020	5.5	12,200	67,097
18	May	Vermont Electric Transmission Co.	05/01/2020	05/31/2020	05/16/2020	05/28/2020	12.0	7,322	87,861
19	June	Vermont Electric Transmission Co.	06/01/2020	06/30/2020	06/15/2020	06/19/2020	3.5	9,957	34,848
20	July	Vermont Electric Transmission Co.	07/01/2020	07/31/2020	07/16/2020	07/23/2020	7.0	12,064	84,450
21	August	Vermont Electric Transmission Co.	08/01/2020	08/31/2020	08/16/2020	08/21/2020	5.0	6,487	32,433
22	September	Vermont Electric Transmission Co.	09/01/2020	09/30/2020	09/15/2020	09/18/2020	2.5	13,971	34,928
23	October	Vermont Electric Transmission Co.	10/01/2020	10/31/2020	10/16/2020	10/21/2020	5.0	12,525	62,626
24	November	Vermont Electric Transmission Co.	11/01/2020	11/30/2020	11/15/2020	11/25/2020	9.5	6,495	61,704
25	December	Vermont Electric Transmission Co.	12/01/2020	12/31/2020	12/16/2020	12/18/2020	2.0	13,560	27,121
26	Subtotal	Vermont Electric Transmission Co.					4.4	$ 128,565	$ 566,724
27	January	NE Electric Transmission - HQ Phase I	01/01/2020	01/31/2020	01/16/2020	01/15/2020	(1.0)	8,158	(8,158)
28	February	NE Electric Transmission - HQ Phase I	02/01/2020	02/29/2020	02/15/2020	02/13/2020	(2.0)	12,791	(25,582)
29	March	NE Electric Transmission - HQ Phase I	03/01/2020	03/31/2020	03/16/2020	03/13/2020	(3.0)	7,996	(23,989)
30	April	NE Electric Transmission - HQ Phase I	04/01/2020	04/30/2020	04/15/2020	04/15/2020	(0.5)	11,372	(5,686)
31	May	NE Electric Transmission - HQ Phase I	05/01/2020	05/31/2020	05/16/2020	05/14/2020	(2.0)	10,449	(20,899)
32	June	NE Electric Transmission - HQ Phase I	06/01/2020	06/30/2020	06/15/2020	06/15/2020	(0.5)	9,944	(4,972)
33	July	NE Electric Transmission - HQ Phase I	07/01/2020	07/31/2020	07/16/2020	07/15/2020	(1.0)	7,725	(7,725)
34	August	NE Electric Transmission - HQ Phase I	08/01/2020	08/31/2020	08/16/2020	08/13/2020	(3.0)	8,396	(25,189)
35	September	NE Electric Transmission - HQ Phase I	09/01/2020	09/30/2020	09/15/2020	09/15/2020	(0.5)	8,632	(4,316)
36	October	NE Electric Transmission - HQ Phase I	10/01/2020	10/31/2020	10/16/2020	10/15/2020	(1.0)	8,822	(8,822)
37	November	NE Electric Transmission - HQ Phase I	11/01/2020	11/30/2020	11/15/2020	11/13/2020	(2.5)	9,694	(24,236)
38	December	NE Electric Transmission - HQ Phase I	12/01/2020	12/31/2020	12/16/2020	12/15/2020	(1.0)	7,368	(7,368)
39	Subtotal	NE Electric Transmission - HQ Phase I					(1.5)	$ 111,348	$ (166,941)
40	Average						(0.8)	$ 3,939,613	$ (3,224,847)

Public Service Company of New Hampshire d/b/a Eversource Energy
Retail Transmission Cash Working Capital Requirement
Year Ending December 31, 2020
HQ ICC

Line	Month	Begining of Service Period	End of Service Period	Midpoint of Service Period	Payment Date	Lead Days	Payment Amount	Dollar Weighted Days
		(A)	(B)	(C)	(D)	(E) =(D)-(C)	(F)	(G) = (E)*(F)
1	January	12/01/2019	12/31/2019	12/16/2019	02/24/2020	70.0	$ (718,331)	$ (50,283,162)
2	February	01/01/2020	01/31/2020	01/16/2020	03/20/2020	64.0	(709,042)	(45,378,709)
3	March	02/01/2020	02/29/2020	02/15/2020	04/17/2020	62.0	(716,913)	(44,448,609)
4	April	03/01/2020	03/31/2020	03/16/2020	05/15/2020	60.0	(717,805)	(43,068,283)
5	May	04/01/2020	04/30/2020	04/15/2020	06/19/2020	64.5	(743,244)	(47,939,255)
6	June	05/01/2020	05/31/2020	05/16/2020	07/17/2020	62.0	(734,797)	(45,557,443)
7	July	06/01/2020	06/30/2020	06/15/2020	08/14/2020	59.5	(430,591)	(25,620,181)
8	August	07/01/2020	07/31/2020	07/16/2020	09/18/2020	64.0	(578,369)	(37,015,594)
9	September	08/01/2020	08/31/2020	08/16/2020	10/19/2020	64.0	(575,809)	(36,851,784)
10	October	09/01/2020	09/30/2020	09/15/2020	11/20/2020	65.5	(584,221)	(38,266,462)
11	November	10/01/2020	10/31/2020	10/16/2020	12/18/2020	63.0	(566,886)	(35,713,807)
12	December	11/01/2020	11/30/2020	11/15/2020	01/15/2021	60.5	(583,459)	(35,299,262)
13	Average					63.4	$ (7,659,467)	$ (485,442,550)

THE STATE OF NEW HAMPSHIRE

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

PREPARED TESTIMONY OF JENNIFER A. ULLRAM

TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM)

Docket No. DE 21-109

Q. Please state your name, business address and your present position.

A. My name is Jennifer A. Ullram. My business address is 107 Selden Street, Berlin, CT 06037. I am employed by Eversource Energy Service Company as Manager of the Connecticut and New Hampshire Rates Departments. In that position I provide service to Eversource Energy's Connecticut and New Hampshire subsidiaries, including Public Service Company of New Hampshire d/b/a Eversource Energy ("Eversource" or the "Company").

Q. Have you previously testified before the Commission?

A. Yes, I have previously testified before the Commission in New Hampshire in the Docket No. DE 20-085 TCAM filing, and have supported several New Hampshire rate and tariff filings, including the Docket No. DE 19-057 distribution rate case. In addition, I have testified numerous times in Connecticut at the Public Utilities Regulatory Authority.

Q. What are your current responsibilities?

A. I am responsible for the Company's rate calculations and design and administration of its Delivery Service tariff.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to propose transmission prices effective August 1, 2021 under the TCAM. My testimony proposes specific rates and charges for transmission based

on the transmission revenue requirement contained in the attachments to Ms. Menard's and Mr. Mathews' testimony.

Q. Have you calculated specific rates and charges for transmission for all rate classes?

A. Yes, I have. The proposed rates and charges are included in Attachment JAU-1.

Q. Please describe generally the transmission pricing rate design contained in Attachment JAU-1.

A. The rates have been calculated as required and approved by the settlement agreement in the Company's recent base distribution rate case in Docket No. DE 19-057. In general, other than Backup Delivery Service Rate B, the Company adjusts all transmission rates by an equal percentage to achieve the overall average transmission rate, in this case, 2.785 cents/kWh.

For Rate B, the Company continues to calculate rates consistent with the settlement agreement in Docket No. DE 06-028. That settlement agreement provides that transmission costs be recovered through a demand charge, which splits the demand charge into two components for rate calculation purposes: a base component and an incremental component[1]. To calculate the base component, a portion of the TCAM costs are allocated to Rate B based on the class contribution to the Company's demands at the time of the corresponding monthly system peaks. These costs are reconciled against actual revenue for the class, with any resulting over- or under-recovery flowing into the rate calculation. The incremental component of the rate is adjusted by the same percentage applied to all other rates

Q. Please describe how the base component of the Rate B demand charge was determined.

A. Please refer to Attachment JAU-2. First, the ratio of average Rate B demands to average total Company demands at the time of the corresponding monthly system peaks was calculated. The calculation of that ratio is shown on Attachment JAU-2, Page 2. The Rate B base component revenue requirement for the forecast period was determined by multiplying the

[1] For billing purposes, the two components are summed so only one demand charge is billed.

total transmission revenue requirement for the forecast period included in Ms. Menard's Attachment ELM-1, line 16 by the ratio calculated in Attachment JAU-2, Page 2. The result is shown in Attachment JAU-2, Page 1, line 18. The base component reconciliation from the prior period was then added to the base component forecasted revenue requirement to determine the total revenue requirement (Attachment JAU-2, Page 1, line 22). The Rate B base component rate was then determined by dividing the total base component revenue requirement by the projected billing demand. As shown on Attachment JAU-2 Page 1, line 26, that calculation produces a Rate B base component rate of $1.67 per kW or kVA per month.

Q. How did you calculate the base component reconciliation?

A. The base component reconciliation calculation is shown on Page 3 of Attachment JAU-2 and was calculated by multiplying the estimated transmission revenue requirement for the twelve-month period August 2020 through July 2021 by the base component ratio for the same period. The base component reconciliation for the prior period August 2019 through July 2020 was then added to the base component revenue requirement. The result is shown on line 28 of JAU-2. The estimated base component revenue for the period August 2020 through July 2021 was then subtracted from the total base component revenue requirement to determine the base component reconciliation (in this case, an under-recovery of $946,772).

Q. How did you forecast the data to perform the calculations described above?

A. For the contribution to the monthly system peaks, historical data was used as a proxy for what will occur in the prospective period because there is no reliable way to forecast Rate B contributions to peak load. The projected billing demand for Rate B was based on actual historical data, with adjustments that could reasonably be anticipated. The total transmission revenue requirement is based on the forecast provided in Ms. Menard's and Mr. Mathews' testimony.

Q. How did you calculate all other transmission rates and charges?

A. The transmission rate calculations were based on 2018 actual billing determinants. The forecasted TCAM rate of 2.785 cents/kWh provided in ELM-1 was multiplied by 2018 MWH sales to produce the target transmission revenue (Attachment JAU-3, line 15). The Rate B base component revenue shown on Attachment JAU-4 was then subtracted from the target transmission revenue which results in the amount to be recovered from all other customers (Attachment JAU-3, line 17). Revenue and the resulting rates and charges for all other customer classes were determined by adjusting all currently-effective revenue and rates by an equal percentage to result in the amount necessary to recover the transmission revenue requirement net of the Rate B base amount. The allocation of transmission revenue to class under this methodology is shown on Attachment JAU-3, lines 27 to 39.

Q. Please describe the bill impacts for a residential customer using 600 kWh per month.

A. A residential customer using 600 kWh per month will see a total bill increase of $13.41 per month if the customer is taking Default Energy Service from Eversource. This impact assumes no other changes. If the Commission approves the Company's TCAM proposal, Stranded Cost Recovery Charge, Regulatory Reconciliation Adjustment and Step 2 Distribution Adjustment as filed the impact to a residential customer using 600 kWh per month would be a total bill increase of $10.42.

Q. Does this complete your testimony?

A. Yes, it does.

Public Service Company of New Hampshire,
d/b/a Eversource Energy
Docket No. DE 21-109
Dated: July 20, 2021
Attachment JAU-1
Page 1 of 1

TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
TRANSMISSION RATES PROPOSED FOR EFFECT ON AUGUST 1, 2021

Rate	Blocks	(A) Current Rates Effective 08/01/2020 (1)	(B) Proposed Rates Effective 08/01/2021 (2)
R	All KWH	$ 0.03011	$ 0.03046
Uncontrolled Water Heating	All KWH	$ 0.02331	$ 0.02358
Controlled Water Heating	All KWH	$ 0.02331	$ 0.02358
R-OTOD	On-peak KWH	$ 0.03011	$ 0.03046
	Off-peak KWH	$ 0.01966	$ 0.01989
G	Load charge (over 5 KW)	$ 7.77	$ 7.86
	First 500 KWH	$ 0.02807	$ 0.02840
	Next 1,000 KWH	$ 0.01056	$ 0.01068
	All additional KWH	$ 0.00566	$ 0.00573
Space Heating	All KWH	$ 0.02807	$ 0.02840
G-OTOD	Load charge	$ 5.12	$ 5.18
LCS	Radio-controlled option	$ 0.02331	$ 0.02358
	8-hour option	$ 0.02331	$ 0.02358
	10 or 11-hour option	$ 0.02331	$ 0.02358
GV	First 100 KW	$ 10.40	$ 10.52
	All additional KW	$ 10.40	$ 10.52
LG	Demand charge	$ 10.24	$ 10.36
B (3)	Demand charge	$ 1.59	$ 2.37
OL, EOL	All KWH	$ 0.02058	$ 0.02082

Notes:
(1) Current rates are based on a retail average transmission rate of 2.758 ¢/KWH.
(2) Proposed rates are based on a retail average transmission rate of 2.785 ¢/KWH.
(3)The calculation of the Rate B charge is shown on Attachment JAU-4. All other rates have been calculated by adjusting current rates by an equal percentage necessary to recover the remaining transmission revenue requirement.

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TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
RATE B CUSTOMERS

Base Component Revenue Requirement

Total Transmission Revenue Requirement	$	213,755,000	ELM-1, Page 1, Line 16
Times Base Component Ratio		0.50734%	JAU-2, Page 2, Line 33
Base Component Forecasted Revenue Requirement	$	1,084,460	Line 14 x Line 16
Base Component Reconciliation	$	946,772	JAU-2, Page 3, Line 32
Base Component Revenue Requirement	$	2,031,233	Line 18 + Line 20
Rate B Projected Billing Demand		1,219,754	
Rate B Base Component per kW or kVA	$	1.67	Line 22/Line 24

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TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
RATE B CUSTOMERS

Contribution to Coincident System Peak (KW)
Period Ending 7/31/21

	Rate B	Total PSNH	Ratio of Rate B to Total PSNH
Aug-20	12,374	1,631,953	
Sep	3,516	1,305,118	
Oct	4,629	1,052,999	
Nov	5,797	1,200,358	
Dec	8,829	1,294,678	
Jan 2021	7,075	1,248,430	
Feb	3,264	1,254,109	
Mar	1,441	1,224,574	
Apr [(1)]	4,897	997,686	
May [(1)]	11,928	1,419,554	
Jun [(1)]	12,801	1,446,984	
Jul [(1)]	3,561	1,714,299	
Average	6,676	1,315,895	0.50734%

[(1)] Estimated data

TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
RATE B CUSTOMERS

Estimated Base Component Reconciliation, 12 months Ending July 31, 2020

Prior Period Transmission Revenue Requirement:			
Retail Transmision Operating Costs	$	215,757,751	ELM-1, Page 4, line 21 and Page 5, line 21
(Over)/Underrecovery, 12 month period ending 7/31/2020		11,270,275	ELM-1, Page 4, line 44
Return on monthly (over)/underrecovery, 12 month period ending 7/31/2021		32,801	ELM-1, Page 4, line 40 and Page 5, line 40
Prior Period Transmission Revenue Requirement	$	227,060,827	Sum of Lines 16 to 18
Times Base Component Ratio		0.50734%	JAU-2, Page 2, Line 33
Prior Period Base Component Revenue Requirement	$	1,151,966	Line 20 x Line 22
Base Component Reconciliation for 12-Month Period Ending 7/31/2020		418,263	JAU-2, Page 5, line 32
Total Base Component Revenue Requirement	$	1,570,229	Line 24 + Line 26
Base Component Revenue (actual through May 2021; June and July 2021 estimated)		623,457	
Estimated Base Component Reconciliation, 12 months Ending 7/31/2021	$	946,772	Line 28 - Line 30

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TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
RATE B CUSTOMERS

Contribution to Legacy NU System Peak (KW)
Period Ending 7/31/2019

	Rate B	Total PSNH	Ratio of Rate B to Total PSNH
Aug-19	2,711	1,524,262	
Sep	2,663	1,208,957	
Oct	1,564	1,000,350	
Nov	7,479	1,217,750	
Dec	9,369	1,303,444	
Jan 2020	10,036	1,248,370	
Feb	4,214	1,170,844	
Mar	1,441	1,082,364	
Apr [1]	4,278	1,040,322	
May [1]	10,906	1,351,753	
Jun [1]	2,335	1,446,984	
Jul [1]	1,724	1,664,075	
Average	4,893	1,271,623	0.38480%

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TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
RATE B CUSTOMERS

Actual Base Component Reconciliation, 12 months Ending July 31, 2020

Prior Period Transmission Revenue Requirement:			
Retail Transmision Operating Costs	$	212,741,433	ELM-1, P4, Line 21 & 2020 ELM/DFB-1 P4, Line 21
(Over)/Underrecovery, period ending 7/31/2019		(11,595,422)	2020 ELM-1, P3, Line 44
Return on monthly (over)/underrecovery, period Ending 7/31/2020		(261,894)	ELM-1, P4, Line 40 & 2020 ELM-1, P4, Line 40
Prior Period Transmission Revenue Requirement	$	200,884,117	Sum of Lines 16 to 18
Times Base Component Ratio		0.38480%	JAU-2, Page 4, Line 30
Prior Period Base Component Revenue Requirement	$	773,010	Line 20 x Line 22
Base Component Reconciliation for 12-Month Period Ending 7/31/2019		174,955	2020 JAU-2, P5, Line 32
Total Base Component Revenue Requirement	$	947,964	Line 24 + Line 26
Actual Base Component Revenue, 12 Month Period Ending 7/31/2020		529,701	
Actual Base Component Reconciliation, 12 months Ending 7/31/2020	$	418,263	Line 28 - Line 30

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TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
ALLOCATION OF AUGUST 1, 2020 TRANSMISSION REVENUE TO CLASS
BASED ON 2018 BILLING DETERMINANTS

				Source
2018 retail billed delivery sales	7,954,422	MWH		
Forecasted TCAM Rate	$ 0.02785	per KWH		Attachment ELM-1, Page 1, Line 20
Target transmission revenue	$ 221,531	(000)		Line 13 x Line 14
Rate B Base Component Revenue	$ 2,020	(000)		Attachment JAU-4, Column C, Line 27
Transmission revenue to be recovered from all other classes	$ 219,511	(000)		Line 15 - Line 16

	(1)	(2)	(3)	(4)
Transmission revenue excluding Rate B Base Component	Revenue at 08/01/2020 Rate Level	08/01/2021 Revenue Target	Change Amount	Change Percent Change
Residential Rates R, R-OTOD	$ 94,847	$ 95,938	$ 1,091	1.1%
General Service Rates G, G-OTOD	47,746	48,295	549	1.1%
Primary General Service Rate GV	43,917	44,422	505	1.1%
GV Rate B - incremental component only	25	25	0	1.1%
Large General Service Rate LG	28,904	29,237	332	1.1%
LG Rate B - incremental component only	813	822	9	1.1%
Outdoor Lighting Rates OL, EOL	798	807	9	1.1%
Total (Sum of Lines 27 to 37)	**$ 217,015**	**$ 219,546**	**$ 2,530**	**1.2%**
Rate B Base Component				
GV Rate B - base component	$ 31	$ 59	$ 28	88.1%
LG Rate B - base component	1,043	1,961	918	88.1%
Total (Line 43 + Line 44)	**$ 1,074**	**$ 2,020**	**$ 946**	**88.1%**
Total, all customers (Line 39 + Line 45)	**$ 218,089**	**$ 221,565**	**$ 3,476**	**1.6%**
Total Rate B, incremental plus base:				
Rate GV: Line 32 + Line 43	$ 56	$ 84	$ 28	50.0%
Rate LG: Line 35+ Line 44	1,855	2,783	927	50.0%
Total	$ 1,911	$ 2,867	$ 955	50.0%

Notes:
(1) The result of applying rates effective August 1, 2020 to 2014 billing determinants.
(2) The Rate B base component was taken from Attachment JAU-4. Revenue targets for all other classes were calculated by adjusting current revenues for each class by an equal percentage.
(3) Column (2) - Column (1).
(4) Column (3) / Column (1).

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TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM) CALCULATION
CALCULATION OF TRANSMISSION REVENUE AND RATES FOR RATE B CUSTOMERS
BASED ON DE 06-028 SETTLEMENT AGREEMENT ARTICLE V, SECTION 5.1.1. AND
2018 BILLING DETERMINANTS

	(A) 2018 Billing Demand	(B) Base Component of Rate	(C) = (A) x (B) Revenue from Base Component	(D) Allocated Revenue from Incremental Component	(E) = (D) / (A) Incremental Component of Rate	(F) = (B) + (E) Total Base Plus Incremental Rate
Rate B customers on Rate GV	35,399	$ 1.67	$ 59,116	$ 24,789	$ 0.70	$ 2.37
Rate B customers on Rate LG	1,174,005	$ 1.67	$ 1,960,588	$ 822,110	$ 0.70	$ 2.37
Total Rate B customers	1,209,404		$ 2,019,705	$ 846,898		

Column (B) is from Attachment JAU-2, Page 1, Line 26
Column (D) is from Attachment JAU-3, Column (B), Lines 32 and 35.

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Comparison of Rates Effective August 1, 2020 and Proposed Rates for Effect August 1, 2021 for Residential Service Rate R

(A) Effective Date	(B) Charge	(C) Distribution Charge	(D) Regulatory Reconciliation Adjustment	(E) Transmission Charge	(F) Stranded Cost Recovery Charge	(G) System Benefits Charge	(H) Electricity Consumption Tax	(I) Energy Service Charge	(J) Total Rate
August 1, 2020	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	**$ 0.04508**	**$ -**	**$ 0.03011**	**$ 0.00982**	$ 0.00743	**$ -**	**$ 0.07068**	**$ 0.16312**
August 1, 2021 (Proposed)	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	**$ 0.05116**	**$ (0.00016)**	**$ 0.03046**	**$ 0.01441**	$ 0.00743	$ -	**$ 0.08826**	**$ 0.19156**

Calculation of 550 kWh monthly bill, by rate component:

	08/01/2020	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 38.60	$ 41.95	$ 3.35	8.7%	3.2%
Regulatory Reconciliation Adjustment	-	(0.09)	$ (0.09)	0.0%	-0.1%
Transmission	16.56	16.75	0.19	1.1%	0.2%
Stranded Cost Recovery Charge	5.40	7.93	2.53	46.9%	2.4%
System Benefits Charge	4.09	4.09	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 64.65	$ 70.63	$ 5.98	9.2%	5.8%
Energy Service	38.87	48.54	9.67	24.9%	9.3%
Total	$ 103.52	$ 119.17	$ 15.65	15.1%	15.1%

Calculation of 600 kWh monthly bill, by rate component:

	08/01/2020	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 40.86	$ 44.51	$ 3.65	8.9%	3.3%
Regulatory Reconciliation Adjustment	$ -	(0.10)	$ (0.10)	0.0%	-0.1%
Transmission	18.07	18.28	0.21	1.2%	0.2%
Stranded Cost Recovery Charge	5.89	8.65	2.76	46.9%	2.5%
System Benefits Charge	4.46	4.46	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 69.28	$ 75.80	$ 6.52	9.4%	5.8%
Energy Service	42.41	52.96	10.55	24.9%	9.4%
Total	$ 111.69	$ 128.76	$ 17.07	15.3%	15.3%

Calculation of 650 kWh monthly bill, by rate component:

	08/01/2020	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 43.11	$ 47.06	$ 3.95	9.2%	3.3%
Regulatory Reconciliation Adjustment	-	(0.10)	$ (0.10)	0.0%	-0.1%
Transmission	19.57	19.80	0.23	1.2%	0.2%
Stranded Cost Recovery Charge	6.38	9.37	2.99	46.9%	2.5%
System Benefits Charge	4.83	4.83	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 73.89	$ 80.96	$ 7.07	9.6%	5.9%
Energy Service	45.94	57.37	11.43	24.9%	9.5%
Total	$ 119.83	$ 138.33	$ 18.50	15.4%	15.4%

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Comparison of Rates Effective August 1, 2020 and Proposed Rates for Effect August 1, 2021
for Residential Service Rate R
Transmission and Energy Service Only

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
Effective Date	Charge	Distribution Charge	Regulatory Reconciliation Adjustment	Transmission Charge	Stranded Cost Recovery Charge	System Benefits Charge	Electricity Consumption Tax	Energy Service Charge	Total Rate
August 1, 2020	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	$ 0.04508	**$ -**	**$ 0.03011**	$ 0.00982	$ 0.00743	**$ -**	**$ 0.07068**	**$ 0.16312**
August 1, 2021 (Proposed)	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	$ 0.04508	$ -	**$ 0.03046**	$ 0.00982	$ 0.00743	$ -	**$ 0.08826**	**$ 0.18105**

Calculation of 550 kWh monthly bill, by rate component:

	08/01/2020	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 38.60	$ 38.60	$ -	0.0%	0.0%
Regulatory Reconciliation Adjustment	-	-	-	0.0%	0.0%
Transmission	16.56	16.75	0.19	1.1%	0.2%
Stranded Cost Recovery Charge	5.40	5.40	-	0.0%	0.0%
System Benefits Charge	4.09	4.09	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 64.65	$ 64.84	$ 0.19	0.3%	0.2%
Energy Service	38.87	48.54	9.67	24.9%	9.3%
Total	$ 103.52	$ 113.38	$ 9.86	9.5%	9.5%

Calculation of 600 kWh monthly bill, by rate component:

	08/01/2020	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 40.86	$ 40.86	$ -	0.0%	0.0%
Regulatory Reconciliation Adjustment	-	-	-	0.0%	0.0%
Transmission	18.07	18.28	0.21	1.2%	0.2%
Stranded Cost Recovery Charge	5.89	5.89	-	0.0%	0.0%
System Benefits Charge	4.46	4.46	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 69.28	$ 69.49	$ 0.21	0.3%	0.2%
Energy Service	42.41	52.96	10.55	24.9%	9.4%
Total	$ 111.69	$ 122.45	$ 10.76	9.6%	9.6%

Calculation of 650 kWh monthly bill, by rate component:

	08/01/2020	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 43.11	$ 43.11	$ -	0.0%	0.0%
Regulatory Reconciliation Adjustment	-	-	-	0.0%	0.0%
Transmission	19.57	19.80	0.23	1.2%	0.2%
Stranded Cost Recovery Charge	6.38	6.38	-	0.0%	0.0%
System Benefits Charge	4.83	4.83	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 73.89	$ 74.12	$ 0.23	0.3%	0.2%
Energy Service	45.94	57.37	11.43	24.9%	9.5%
Total	$ 119.83	$ 131.49	$ 11.66	9.7%	9.7%

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Comparison of Rates Effective February 1, 2021 and Proposed Rates for Effect August 1, 2021
for Residential Service Rate R

(A) Effective Date	(B) Charge	(C) Distribution Charge	(D) Regulatory Reconciliation Adjustment	(E) Transmission Charge	(F) Stranded Cost Recovery Charge	(G) System Benefits Charge	(H) Electricity Consumption Tax	(I) Energy Service Charge	(J) Total Rate
February 1, 2021	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	**$ 0.05116**	$ -	**$ 0.03011**	**$ 0.01441**	$ 0.00743	$ -	**$ 0.06627**	**$ 0.16938**
August 1, 2021 (Proposed)	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	**$ 0.05180**	**$ (0.00016)**	**$ 0.03046**	**$ 0.00896**	$ 0.00743	$ -	**$ 0.08826**	**$ 0.18675**

Calculation of 550 kWh monthly bill, by rate component:

	02/01/2021	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 41.95	$ 42.30	$ 0.35	0.8%	0.3%
Regulatory Reconciliation Adjustment	-	(0.09)	(0.09)	0.0%	-0.1%
Transmission	16.56	16.75	0.19	1.1%	0.2%
Stranded Cost Recovery Charge	7.93	4.93	(3.00)	-37.8%	-2.8%
System Benefits Charge	4.09	4.09	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 70.53	$ 67.98	$ (2.55)	-3.6%	-2.4%
Energy Service	36.45	48.54	12.09	33.2%	11.3%
Total	$ 106.98	$ 116.52	$ 9.54	8.9%	8.9%

Calculation of 600 kWh monthly bill, by rate component:

	02/01/2021	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 44.51	$ 44.89	$ 0.38	0.9%	0.3%
Regulatory Reconciliation Adjustment	-	(0.10)	(0.10)	0.0%	-0.1%
Transmission	18.07	18.28	0.21	1.2%	0.2%
Stranded Cost Recovery Charge	8.65	5.38	(3.27)	-37.8%	-2.8%
System Benefits Charge	4.46	4.46	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 75.69	$ 72.91	$ (2.78)	-3.7%	-2.4%
Energy Service	39.76	52.96	13.20	33.2%	11.4%
Total	$ 115.45	$ 125.87	$ 10.42	9.0%	9.0%

Calculation of 650 kWh monthly bill, by rate component:

	02/01/2021	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 47.06	$ 47.48	$ 0.42	0.9%	0.3%
Regulatory Reconciliation Adjustment	-	(0.10)	(0.10)	0.0%	-0.1%
Transmission	19.57	19.80	0.23	1.2%	0.2%
Stranded Cost Recovery Charge	9.37	5.82	(3.55)	-37.9%	-2.9%
System Benefits Charge	4.83	4.83	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 80.83	$ 77.83	$ (3.00)	-3.7%	-2.4%
Energy Service	43.08	57.37	14.29	33.2%	11.5%
Total	$ 123.91	$ 135.20	$ 11.29	9.1%	9.1%

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Comparison of Rates Effective February 1, 2021 and Proposed Rates for Effect August 1, 2021
for Residential Service Rate R

(A) Effective Date	(B) Charge	(C) Distribution Charge	(D) Regulatory Reconciliation Adjustment	(E) Transmission Charge	(F) Stranded Cost Recovery Charge	(G) System Benefits Charge	(H) Electricity Consumption Tax	(I) Energy Service Charge	(J) Total Rate
February 1, 2021	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	$ 0.05116	$ -	$ 0.03011	$ 0.01441	$ 0.00743	$ -	**$ 0.06627**	**$0.16938**
August 1, 2021 (Proposed)	Customer charge (per month)	$ 13.81							$ 13.81
	Charge per kWh	$ 0.05116	$ -	**$ 0.03046**	$ 0.01441	$ 0.00743	$ -	**$ 0.08826**	**$0.19172**

Calculation of 550 kWh monthly bill, by rate component:

	02/01/2021	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 41.95	$ 41.95	$ -	0.0%	0.0%
Regulatory Reconciliation Adjustment	-	-	-	0.0%	0.0%
Transmission	16.56	16.75	0.19	1.1%	0.2%
Stranded Cost Recovery Charge	7.93	7.93	-	0.0%	0.0%
System Benefits Charge	4.09	4.09	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 70.53	$ 70.72	$ 0.19	0.3%	0.2%
Energy Service	36.45	48.54	12.09	33.2%	11.3%
Total	$ 106.98	$ 119.26	$ 12.28	11.5%	11.5%

Calculation of 600 kWh monthly bill, by rate component:

	02/01/2021	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 44.51	$ 44.51	$ -	0.0%	0.0%
Regulatory Reconciliation Adjustment	-	-	-	0.0%	0.0%
Transmission	18.07	18.28	0.21	1.2%	0.2%
Stranded Cost Recovery Charge	8.65	8.65	-	0.0%	0.0%
System Benefits Charge	4.46	4.46	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 75.69	$ 75.90	$ 0.21	0.3%	0.2%
Energy Service	39.76	52.96	13.20	33.2%	11.4%
Total	$ 115.45	$ 128.86	$ 13.41	11.6%	11.6%

Calculation of 650 kWh monthly bill, by rate component:

	02/01/2021	08/01/2021	$ Change	% Change in each Component	Change as a % of Total Bill
Distribution	$ 47.06	$ 47.06	$ -	0.0%	0.0%
Regulatory Reconciliation Adjustment	-	-	-	0.0%	0.0%
Transmission	19.57	19.80	0.23	1.2%	0.2%
Stranded Cost Recovery Charge	9.37	9.37	-	0.0%	0.0%
System Benefits Charge	4.83	4.83	-	0.0%	0.0%
Electricity Consumption Tax	-	-	-	0.0%	0.0%
Delivery Service	$ 80.83	$ 81.06	$ 0.23	0.3%	0.2%
Energy Service	43.08	57.37	14.29	33.2%	11.5%
Total	$ 123.91	$ 138.43	$ 14.52	11.7%	11.7%

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Rate Changes Proposed for Effect on August 1, 2021

Impact of Each Change on Delivery Service Bills
Rate Changes Expressed as a Percentage of Total Delivery Revenue for Each Class

Class	Distribution	Regulatory Reconciliation Adjustment	Transmission	SCRC	System Benefits	Consumption Tax	Total Delivery Service
Residential	0.5%	-0.1%	0.3%	-4.4%	0.0%	0.0%	-3.7%
General Service	0.5%	-0.1%	0.3%	-4.5%	0.0%	0.0%	-3.9%
Primary General Service	0.3%	-0.1%	0.4%	-5.9%	0.0%	0.0%	-5.2%
GV Rate B	0.5%	-0.1%	7.4%	-3.8%	0.0%	0.0%	3.9%
Total Primary General Service	0.3%	-0.1%	0.4%	-5.9%	0.0%	0.0%	-5.2%
Large General Service	0.3%	-0.1%	0.5%	-4.1%	0.0%	0.0%	-3.4%
LG Rate B	0.3%	-0.1%	19.2%	-4.6%	0.0%	0.0%	14.8%
Total Large General Service	0.3%	-0.1%	1.7%	-4.1%	0.0%	0.0%	-2.2%
Outdoor Lighting Rate OL	0.7%	-0.2%	0.1%	-4.7%	0.0%	0.0%	-4.1%
Energy Efficient Outdoor Lt. Rate EOL	0.7%	-0.2%	0.1%	-6.1%	0.0%	0.0%	-5.5%
Total Outdoor Lighting	0.7%	-0.2%	0.1%	-5.2%	0.0%	0.0%	-4.6%
Total Retail	0.4%	-0.1%	0.4%	-4.6%	0.0%	0.0%	-3.8%

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Rate Changes Proposed for Effect on August 1, 2021

Impact of Each Change on Bills including Energy Service
Rate Changes Expressed as a Percentage of Total Revenue for Each Class

Class	Distribution	Regulatory Reconciliation Adjustment	Transmission	SCRC	System Benefits	Consumption Tax	Total Energy Service	Delivery and Energy
Residential	0.3%	-0.1%	0.2%	-2.8%	0.0%	0.0%	11.5%	9.1%
General Service	0.3%	-0.1%	0.2%	-2.8%	0.0%	0.0%	12.6%	10.2%
Primary General Service	0.2%	0.0%	0.2%	-3.0%	0.0%	0.0%	13.1%	10.4%
GV Rate B	0.3%	-0.1%	4.9%	-2.6%	0.0%	0.0%	9.1%	11.7%
Total General Service	0.2%	0.0%	0.2%	-3.0%	0.0%	0.0%	13.1%	10.4%
		0.0%						
Large General Service	0.1%	0.0%	0.2%	-1.9%	0.0%	0.0%	14.8%	13.3%
LG Rate B	0.1%	0.0%	9.0%	-2.2%	0.0%	0.0%	14.5%	21.4%
Total Large General Service	0.1%	0.0%	0.8%	-1.9%	0.0%	0.0%	14.8%	13.8%
Outdoor Lighting Rate OL	0.6%	-0.2%	0.1%	-3.9%	0.0%	0.0%	5.9%	2.6%
Energy Efficient Outdoor Lt. Rate EOL	0.5%	-0.1%	0.1%	-4.8%	0.0%	0.0%	7.3%	3.0%
Total Outdoor Lighting	0.6%	-0.1%	0.1%	-4.2%	0.0%	0.0%	6.4%	2.7%
Total Retail	0.3%	-0.1%	0.3%	-2.8%	0.0%	0.0%	12.4%	10.1%

Public Service Company of New Hampshire,
d/b/a Eversource Energy
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Rate Changes Proposed for Effect on August 1, 2021

Impact of Each Change on Delivery Service Bills
Rate Changes Expressed as a Percentage of Total Delivery Revenue for Each Class
Transmission and Energy Service Only

Class	Distribution	Regulatory Reconciliation Adjustment	Transmission	SCRC	System Benefits	Consumption Tax	**Total** Delivery Service
Residential	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%
General Service	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%
Primary General Service	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.4%
GV Rate B	0.0%	0.0%	7.4%	0.0%	0.0%	0.0%	7.4%
Total Primary General Service	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.4%
Large General Service	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.5%
LG Rate B	0.0%	0.0%	19.2%	0.0%	0.0%	0.0%	19.2%
Total Large General Service	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%	1.7%
Outdoor Lighting Rate OL	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Energy Efficient Outdoor Lt. Rate EOL	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Total Outdoor Lighting	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Total Retail	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.4%

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Rate Changes Proposed for Effect on August 1, 2021

Impact of Each Change on Bills including Energy Service
Rate Changes Expressed as a Percentage of Total Revenue for Each Class
Transmission and Energy Service Only

Class	Distribution	Regulatory Reconciliation Adjustment	Transmission	SCRC	System Benefits	Consumption Tax	Total Energy Service	Delivery and Energy
Residential	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	11.5%	11.7%
General Service	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	12.6%	12.8%
Primary General Service	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	13.1%	13.4%
GV Rate B	0.0%	0.0%	4.9%	0.0%	0.0%	0.0%	9.1%	14.0%
Total General Service	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	13.1%	13.4%
		0.0%						
Large General Service	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	14.8%	15.0%
LG Rate B	0.0%	0.0%	9.0%	0.0%	0.0%	0.0%	14.5%	23.5%
Total Large General Service	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	14.8%	15.6%
Outdoor Lighting Rate OL	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	5.9%	6.0%
Energy Efficient Outdoor Lt. Rate EOL	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	7.3%	7.4%
Total Outdoor Lighting	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	6.4%	6.5%
Total Retail	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	12.4%	12.6%

THE STATE OF NEW HAMPSHIRE
BEFORE THE
NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

PREPARED TESTIMONY OF DAVID JAMES BURNHAM

TRANSMISSION COST ADJUSTMENT MECHANISM (TCAM)

Docket No. DE 21-109

Q. Please state your name, business address and your present position.

A. My name is David James Burnham. My business address is 56 Prospect Street, Hartford, CT 06103. I am a Manager of ISO Policy and Economic Analysis at Eversource Energy ("Eversource").

Q. Have you previously testified before the Commission?

A. Yes, I previously testified before the Commission in support of the Transmission Cost Adjustment Mechanism ("TCAM") in Docket No. DE 20-085.

Q. What are your current responsibilities?

A. I represent Eversource on several ISO New England and NEPOOL stakeholder committees, including those that focus on transmission-related topics. I am responsible for advising Eversource transmission project teams on stakeholder processes and reporting requirements. Among other things, I oversee the preparation and submission of Transmission Cost Allocation (TCA) filings with ISO New England. I also coordinate Eversource's responses to policy and tariff changes that are developed via the NEPOOL stakeholder processes. Finally, I

oversee assessments of non-transmission alternatives for major transmission projects.

Q. Please describe your educational background.

A. I hold a Bachelor of Engineering from Dartmouth College in Hanover, New Hampshire, and a Master of Science in Electrical Engineering from the University of Texas in Austin, Texas.

Q. Please describe your professional experience.

A. I have experience with transmission planning, project development, and ISO New England markets. I joined Eversource as an electrical engineer supporting economic analysis of major transmission projects and have held positions of increasing responsibility within the transmission business. Prior to joining Eversource, I was an Electrical Engineer within the Office of Electric Reliability at the Federal Energy Regulatory Commission in Washington, DC.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to describe the transmission planning process at ISO-NE and to provide a detailed description of the projects included in the LNS rates that have been included as part of this TCAM filing consistent with the directive of Order No. 25,912 dated June 28, 2016 in Docket No. DE 16-566.

Q. Will anyone else be providing testimony in support of this filing?

A. Yes. Jennifer A. Ullram is filing testimony in support of the proposed retail transmission rates. In her testimony, Ms. Ullram will detail the rates applicable to each individual rate class. Erica L. Menard and James E. Mathews are filing testimony in support of the calculation of Eversource's TCAM rates effective August 1, 2021 as well as the reconciliation of actual/forecast transmission costs through the reconciliation period ending July 2021, and to describe the year-to-year change in LNS and RNS rates.

Q. What information have you provided to meet the requirements of Order No. 25,912, dated June 28, 2016, in Docket No. DE 16-566?

A. The ISO-NE transmission planning process is a regionally-coordinated process conducted periodically to reliably meet customer demand, system stability and asset condition needs throughout the region. Broadly speaking, there is an extensive stakeholder process to identify the various needs of the electrical system and the potential solutions to those needs through the development of the regional system plan. As part of that process, ISO-NE will review potential transmission solutions and potential market alternatives. Eventually, a preferred solution is selected to address the identified needs. Eversource employs similar methods to develop a local system plan to address more localized needs of the electric system.

A more complete description of these processes is contained in the last Least Cost Integrated Resource Plan submitted on October 1, 2020 in Docket No. DE 20-161. Bates pages 33-36 of that filing provide descriptions and links to information on both the planning processes.

Additionally, as Attachment DJB-1, I have provided the Actual 2020 Projects in Service greater than $5 million included in Schedule 21-ES, Category A (Local Network Service) for The Connecticut Light and Power Company ("CL&P"), Public Service Company of New Hampshire ("PSNH"), and NSTAR Electric Company (West) ("NSTAR(West)") that are included in the LNS expenses in this filing. The attachment includes CL&P, PSNH and NSTAR(West) because all LNS customers (including PSNH retail customers) pay an average rate under Schedule 21-ES. It should be noted that beginning January 1, 2022, in accordance with the Settlement approved by FERC on December 28, 2020 in Docket No. ER20-2054-000, each operating company's LNS costs will be billed to its LNS customers within the state it operates; for example, PSNH's LNS costs will be billed only to PSNH's LNS customers in New Hampshire. The attachment details the projects by individual company, project title, total project investment amount and what portion of the project is classified by ISO-New England as a Pool Transmission Facility ("PTF") investment.

Q. Does this conclude your testimony?

A. Yes, it does.

CL&P, PSNH, and NSTAR (West)
Transmission Plant In-Service
2020 Actual

(A) Line	(B) Company	(C) Project Title	(D) Total	(E) PTF
1	CL&P	Transmission Structure Refurb & Replace (36+ projects)	$ 229,090,165	$ 224,026,107
2	CL&P	Greenwich Substation	$ 92,339,420	$ (203,813)
3	CL&P	Greater Hartford Central CT Projects	$ 79,498,447	$ 79,081,480
4	CL&P	Relay Replacement Projects (5 projects)	$ 9,720,216	$ 7,941,719
5	CL&P	1887/1618 line Asset Condition Replacemnt	$ 6,625,389	$ 6,625,389
6	CL&P	1355 Line Structure Rebuild	$ 6,860,536	$ 6,860,536
7	CL&P	Asset Protection & Physical Security	$ 5,164,344	$ 5,164,344
8	CL&P	Repl Card 5X, Spare at Southington	$ 5,704,960	$ 5,704,960
9	CL&P	Millstone High Creep Insulator Replacement	$ 7,342,259	$ 7,342,259
10	CL&P	Other CL&P Reliability Projects	$ 18,295,099	$ 9,346,608
11	CL&P	**Total CL&P (Sum Lines 1 - 10)**	**$ 460,640,833**	**$ 351,889,589**
12	PSNH	Seacoast Reliability Project	$ 111,956,815	$ 101,890,588
13	PSNH	Transmission Structure Refurb & Replace (16+ projects)	$ 86,706,332	$ 84,619,868
14	PSNH	M127 Line OPGW and Asset Condition Replacement	$ 11,202,165	$ 11,202,165
15	PSNH	Other PSNH Reliability Projects	$ 20,022,952	$ 6,579,487
16	PSNH	**Total PSNH (Sum Lines 12 - 15)**	**$ 229,888,264**	**$ 204,292,108**
17	NSTAR (West)	Transmission Structure Refurb & Replace (27+ projects)	$ 63,112,409	$ 63,071,091
18	NSTAR (West)	Pittsfield-Greenfield Area Solution Upgrades	$ 27,238,895	$ 27,238,895
19	NSTAR (West)	**Total NSTAR (West) (Sum Lines 17 - 18)**	**$ 90,351,304**	**$ 90,309,986**
20		**Total CL&P, PSNH, and NSTAR (West) (Line 11 + 16 + 19)**	**$ 780,880,401**	**$ 646,491,682**