UNITIL ENERGY SYSTEMS, INC.

DIRECT TESTIMONY OF

LISA S. GLOVER

New Hampshire Public Utilities Commission

Docket No.: DE 21-

June 17, 2021

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I. INTRODUCTION

Q. Please state your name and business address.

A. My name is Lisa S. Glover. My business address is 6 Liberty Lane West, Hampton, NH.

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

A. I am a Senior Energy Analyst for Unitil Service Corp. (”USC”). USC provides management and administrative services to Unitil Energy Systems, Inc. (“UES”) and Unitil Power Corp. (“UPC”).

Q. Please describe your relevant educational and work experience.

A. I received my Bachelor of Science degree in Environmental Science from the University of Massachusetts Amherst and a Master of Public Administration from Norwich University in Vermont. I joined Unitil Service Corp. in February 2003 and have held various positions within the company prior to joining Energy Contracts in May 2014 in my current position as Senior Energy Analyst. I have primary responsibilities in the areas of default service budgeting, administration, and procurement; long-term renewable energy procurement; electric market operation and data reporting; and Renewable Portfolio Standard compliance.

Q. Have you previously testified before the New Hampshire Public Utilities Commission ("Commission")?

A. Yes.

II. SUMMARY OF TESTIMONY

Q. Please summarize your testimony in this proceeding.

A. My testimony presents the cost data and explains the reasons for the proposed changes to UES's Stranded Cost Charge ("SCC"), and External Delivery Charge ("EDC"), effective August 1, 2021. Ms. Linda S. McNamara is sponsoring testimony on the reconciliation and rate development for the SCC and EDC, based on the cost data included in my testimony. Mr. Douglas Debski has provided testimony to explain the calculation of displaced distribution revenue associated with net metering for 2020, which is included in the proposed EDC.

III. STRANDED COST CHARGE COSTS

Q. What costs are included in the SCC?

A. The SCC includes the Contract Release Payments ("CRP") from Unitil Power Corp., charged in accordance with the Amended Unitil System Agreement, approved by both the Commission in Docket No. DE 01-247 and by the FERC.

Schedule LSG-1, page 1, provides a description of the CRP. Page 2 provides the CRP by month reflecting actual data from August 2019 through May 2021 and estimated data from June 2021 through July 2022.

Q. Please describe the Amended Unitil System Agreement.

A. The purpose of the Amended Unitil System Agreement was to restructure UES's power supply in order to implement retail choice. Prior to the implementation of the Amended Unitil System Agreement on May 1, 2003, UES purchased full-requirements power supply from UPC at fully reconciling, cost-of-service rates.

The Amended Unitil System Agreement provides for termination of power sales from UPC to UES and the payment of UPC's on-going costs by UES. These on-going costs are defined in the Amended Unitil System Agreement as CRP and Administrative Service Charges ("ASC"). UES recovers the CRP through the SCC and the ASC through the EDC. The ASC will be discussed later under the EDC costs.

Q. Please describe the CRP.

A. The CRP is calculated in accordance with Appendix 1 of the Amended Unitil System Agreement. The CRP is equal to the sum of the Portfolio Sales Charge, the Residual Contract Obligations, the Hydro-Quebec Support Payments, and True-Ups from Prior Periods. The Portfolio Sales Charge and the Residual Contract Obligations have ended. The CRP estimates in this filing, therefore, include only the Hydro-Quebec Support Payments.

The Hydro-Quebec Phase II Agreements required UPC to support the Hydro-Quebec Phase II transmission facilities through October 2020. These facilities are part of one high-voltage, direct-current ("HVDC") interconnection between New England and Quebec. UPC has no obligation to support Phase I of these facilities. Currently, the costs for maintenance and construction of these facilities are paid by Interconnection

Rights Holders ("IRH") through support agreements between the IRH members and the owners of the HVDC transmission facilities. The Hydro-Quebec Support Payments include all costs incurred by UPC pursuant to the Hydro-Quebec Phase II Agreements, offset by any revenues received by UPC for sales of UPC's Hydro-Quebec Phase II entitlement. The Hydro-Quebec Support Payments are not a known payment stream because they are based on the cost-of-service of the Hydro-Quebec Phase II transmission facilities. As discussed below, before the underlying contracts terminated on October 31, 2020, UPC received revenue for short-term sales of transmission rights and capacity rights. These revenues operated to offset the expense of the Hydro-Quebec Support Payments.

The True-ups from Prior Periods reflect any differences in costs resulting from the reconciliation of estimated costs to actual costs under the CRP component of the Amended Unitil System Agreement. The True-ups from Prior Periods also provide for the reconciliation of costs billed to UPC for services purchased in UPC's performance of the Unitil System Agreement, prior to May 1, 2003. The CRP estimates in the current filing reflect no True-ups from obligations prior to May 1, 2003.

Q. Please provide an estimate of each of the components of the CRP.

A. Details regarding the CRP are provided in Schedule LSG-3. This shows the actual itemized CRP and ASC charges as billed by UPC to UES for the period beginning August 2019 through April 2021 under the Amended Unitil System Agreement.

Beginning on page 1 and into page 2 of Schedule LSG-3, estimated CRP and ASC for the 15-month period beginning May 2021 and ending July 2022 are presented. UPC bills UES on estimated data, prior to the beginning of the month of service. These estimates are trued-up to actuals on a two-month lag.

Q. Please provide a comparison of the estimated CRP for the upcoming SCC rate period (August 2021 through July 2022) to the projected CRP for the current SCC rate period (August 2020 through July 2021).

A. Table 1 below provides a comparison of the estimated CRP for the upcoming SCC rate period to the projected CRP for the current SCC rate period. At the time of the preparation of this estimate of the CRP, actual CRP expense data was available through May 2021. As such, the projected actual CRP for the current SCC rate period (August 2020 through July 2021) is comprised of ten months of actual data and two months of estimated data.

Table 1. Comparison of Estimated CRP for August 2022 through July 2022 to Projected CRP for August 2020 through July 2021
Unitil Power Corp.

Line No.	Line Item Description	Aug 2020 - July 2021 10 Months Act. and 2 Months Est.	Aug 2021 - July 2022 Estimate	Variance (Aug 2021 - July 2022 Costs minus Aug 2020 - July 2021 Costs)
1	Portfolio Sales Charge	$0	$0	$0
2	Residual Contract Obligations	$0	$0	$0
3	Hydro-Quebec Support Payments	($110,713)	($26,373)	$84,340
4	Subtotal (L. 2 through 4)	($110,713)	($26,373)	$84,340
5	True-up for estimate	($60,949)	$0	$60,949
6	Obligations prior to May 1, 2003	$0	$0	$0
7	Total Contract Release Payments as billed by Unitil Power Corp.	($171,662)	($26,373)	$145,289

Q. Please report on the efforts by UPC to mitigate the stranded costs associated with the Hydro-Quebec Phase II Agreements.

A. During the term of the **Hydro-Quebec Phase II Agreements,** UPC mitigated costs through short-term sales of the transmission rights and capacity, which UPC was entitled to through its support of the Hydro-Quebec Phase II facilities. UPC would resell its transmission rights on a short-term basis through a brokering agreement with Green Mountain Power ("GMP"). Under this brokering agreement, which was amended November 1, 2015, to increase the maximum duration of transmission sales from one month to one year, GMP would offer UPC's transmission rights associated with the Hydro-Quebec Phase II facilities for sale on a short-term basis through GMP's OASIS website. GMP had authority under this amended agreement to enter into binding sales of UPC's Hydro-Quebec transmission rights for firm and non-firm transactions for a maximum term of one year. UPC also had rights to Hydro-Quebec Interconnection Capability Credit ("HQICC"), pursuant to the ISO Tariff. UPC was reimbursed by GMP for its HQICC at a price equal to the ISO Net Regional Clearing Price.[1] Please refer to Schedule LSG-5 for itemized cost and revenue offsets, related to the Hydro-Quebec Phase II Support Agreements.

Q. Has UPC prepared an accounting of the costs and revenues to UPC under the CRP and the ASC?

A. Yes. Schedule LSG-4 provides this accounting for the period beginning August 2019 through April 2021. UPC bills UES estimates of the CRP and ASC on the

[1] The Net Regional Clearing Price is calculated by first adding Forward Capacity Auction payments to Net Reconfiguration Auction Credits or Charges and subtracting Peak Energy Rent Adjustments. This total is then divided by the Net Regional Supply Obligation.

25th of the month for the upcoming month. The estimated expenses are trued-up to actual expenses on a two-month lag basis. In order to calculate the true-up, UPC tracks the actual expenses, which comprise both the CRP and the ASC. These actual expenses are compared to the estimated expenses to calculate the true-up for prior period. Schedule LSG-4 provides summary data of actual CRP and ASC expenses and revenues.

IV. TERMINATION OF PHASE II SUPPORT AGREEMENTS

Q. Please provide background on the Hydro-Quebec Phase II Support Agreements.

A. The Hydro-Quebec high voltage direct current ("HVDC") transmission facilities were supported by two sets of agreements signed in the 1980s. The Support Agreements pre-dated electric industry restructuring and were entered into on a pro rata basis by all or nearly all members of the New England Power Pool ("NEPOOL"). The Phase I Support Agreements were signed in 1980, and brought interconnection and transmission facilities with approximately 690 MW of transfer capability from the Hydro-Quebec system to New England into service in 1986. The Phase II Support Agreements were signed in 1985 and increased the total transfer capabilty from Hydro-Quebec to New England to approximately 2,000 MW. A Restated Use Agreement[2] defines the rights ("Use Rights") of parties to

[2] New England Power Pool FERC Electric Third Revised Rate Schedule No. 4.

the Support Agreements, also known as Interconnection Rights Holders ("IRH"). The term of the Phase I and Phase II Support Agreements is 30 years after the Phase II facilities went into service. The Phase II facilities went into service in the fall of 1990 and the agreements were set to expire October 31, 2020.

Q. What was Unitil Power Corp.'s share of the Phase II Support Agreements?

A. UPC's share of Phase II was 1.227 percent, which provides Use Rights for approximately 16 MW of transfer capability. The Phase II Support Agreements include four separate agreements.[3] UPC does not have a share of Phase I.

Q. Why didn't Unitil Power Corp. divest its Phase II entitlement during restructuring?

A. UPC sought to divest its Phase II entitlement early in the divestiture process, but did not find market interest so the entitlement was retained in Unitil Energy Systems, Inc's power supply restructuring plan. UPC has mitigated the costs of the Phase II Support Agreements since restructuring began and recovered costs from and credited revenues to UES under the Unitil System Agreement. In turn, UES

[3] Phase II Boston Edison AC Facilities Support Agreement, dated June 1, 1985. Phase II Massachusetts Transmission Facilities Support Agreement, dated June 1, 1985. Phase II New England Power AC Facilities Support Agreement, dated June 1, 1985. Phase II New Hampshire Transmission Facilities Support Agreement, dated June 1, 1985.

has recovered the net costs in the SCC. As documented in the prior section, mitigation has taken the form of transmission sales and HQICC.

Q. What are the renewal rights associated with the Support Agreements?

A. The Transmission Facilities Support Agreements include a right to renew for an additional period of up to 20 years. The right was to be exercised no later than two years before the termination date, or by October 31, 2018. There is a requirement that 100 percent of the entitlements must be renewed or the renewal right is forfeited. Thus, if an individual IRH decides not to renew, then their shares would need to be allocated among those IRH who choose to renew.

Q. Did UPC exercise its right to renew the Phase II Support Agreements?

A. UPC decided not to renew its share of the Phase II Massachusetts and New Hampshire Transmission Facilities Support Agreements and let its share terminate on November 1, 2020. Although UPC did not enter into new transmission service support agreements, UPC continues to be billed for relatively small expenses under the Boston Edison AC Facilities Support Agreement and the New England Power AC Facilities Support Agreement, and UPC also receives corresponding revenue from ISO New England offsetting these expenses. The Company is looking into the steps it needs to take to fully terminate obligations under these two agreements.

Q. Why has UPC elected not to renew the Phase II Support Agreements and the Restated Use Rights Agreement?

A. As stated in its previous filings, these agreements are not needed to provide service to UES' customers. UES is a distribution company that purchases electric default service power from the market as directed by the Commission. The purpose of the Support Agreements, which pre-dated industry restructuring, was to build the HVDC transmission line for the benefit of the New England region. The facilities are now in service and there is no indication that UPC not renewing its share of the support agreement will lead to the abandonment of the facilities.

Q. What other benefits derive from UPC's decision not to renew the Phase II Support Agreements?

A. Allowing the Phase II Support Agreeements to terminate will allow the elimination of the Stranded Cost Charge, the opportunity to dissolve UPC and the opportunity to terminate the Unitil System Agreement. These changes would also better align UES's energy supply related commitments with its energy procurement practices.

V. EXTERNAL DELIVERY CHARGE COSTS

Q. What costs are included in the EDC?

A. Schedule LSG-2, page 1 provides a description of the costs included in the EDC:

1) Third Party Transmission Providers (Eversource Network Integration Transmission Service);
2) Regional Transmission and Operating Entities;
3) Third Party Transmission Providers (Eversource Wholesale Distribution);
4) Working Capital Associated with Other Flow-Through Operating Expenses-transmission costs only;
5) Transmission-Based Assessments and Fees;
6) Load Estimation and Reporting System and EDI Communication Costs;

7) Unmetered Purchased Power;
8) Data and Information Services;
9) Legal Charges;
10) Consulting Outside Service Charges;
11) Administrative Service Charges;
12) EDC Portion of the Annual PUC Assessment;
13) Net Metering Credits
14) Net Metering Costs
15) Regional Greenhouse Gas Initiative Auction Proceeds;
16) Other Regulatory Expenses;
17) Working Capital Associated with Other Flow-Through Operating Expenses-excluding transmission costs; and
18) Displaced Distribution Revenue.

Items 1), 2), and 3) of the Schedule are discussed below:

The Third Party Transmission Providers (Eversource Network Integration Transmission Service) component of the EDC consists of Network Integration Transmission Service taken by UES and provided by the Eversource Energy companies[4] ("Eversource") pursuant to Schedule 21-ES of the ISO New England Inc. Transmission, Markets and Services Tariff (FERC Electric Tariff No.3) ("ISO Tariff").

The Regional Transmission and Operating Entities component of the EDC consists of all charges from ISO New England Inc. ("ISO"). These charges consist primarily of Regional Network Service, taken pursuant to the ISO Tariff. Other major costs (which are also billed by the ISO to UES) are various ancillary services allocated

[4] Northeast Utilities formerly changed its name and those of all its subsidiaries in January 2015 to Eversource Energy.

to transmission customers, such as VAR support, dispatch service, and black-start capability.

The Third Party Transmission Providers (Eversource Wholesale Distribution) component consists of Distribution Delivery Service ("DDS") charges with Eversource. DDS compensates Eversource for the wheeling of power from the Eversource transmission system to UES's distribution system over certain facilities, which are classified as distribution facilities for accounting purposes and, therefore, are not included in the Eversource transmission system rate base.

Q. Please provide the External Delivery cost data, which was utilized in the calculation of the EDC.

A. Schedule LSG-2 provides the External Delivery cost data used in the calculation of the EDC. Page 2 provides actual historic External Delivery cost data for the year beginning August 2019 through July 2020. Actual External Delivery cost data for the months of August 2019 through May 2020 was included in UES's last EDC rate and reconciliation filing, Docket No. DE 20-098. In that docket, UES provided estimated External Delivery costs for June 2020 through July 2021. Rather than present partial data beginning with July 2020, UES is presenting the full period. Page 3 of Schedule 2 provides External Delivery cost data for the current EDC rate period, August 2020 through July 2021. Actual cost data is available through April 2020, and estimated cost data is provided for May 2021 and July 2021. Finally, page 4 of Schedule LSG-2 provides estimated External Delivery costs for the upcoming EDC rate period, August 2021 through July 2022.

Q. Please provide a comparison of the External Delivery costs for the upcoming EDC rate period (August 2021 through July 2022) to the projected External Delivery costs for the current EDC rate period (August 2020 through July 2021).

A. Please refer to Table 2 below for an itemized comparison of estimated External Delivery cost for the upcoming EDC rate period to the projected External Delivery costs for the current rate period.

Table 2. Comparison of Estimated External Delivery costs for August 2020 through July 2021 to projected External Delivery costs for August 2019 through July 2020

Unitil Energy Systems, Inc.

Line No.	Line Item Description	Aug 2020 - July 2021 10 Months Act. and 2 Months Est.	Aug 2021 - July 2022 Estimate	Variance (Aug 2021 - July 2022 Costs minus Aug 2020 - July 2021 Costs)
1	Third Party Transmission Providers (Eversource Network Integration Transmission Service)	$7,865,217	$4,044,785	($3,820,432)
2	Regional Transmission and Operating Entities	$28,044,139	$30,895,592	$2,851,453
3	Third Party Transmission Providers (Eversource Wholesale Distribution)	$2,910,198	$2,856,824	($53,374)
4	Working Capital associated with Other Flow-Through Operating Expenses-Transmission Costs only	$485,298	$472,517	($12,781)
5	Transmission-based Assessments and Fees	$12,480	$12,000	($480)
6	Load Estimation and Reporting System Costs	$300,766	$288,000	($12,766)
7	Unmetered Purchased Power	$4,175	$0	($4,175)
8	Data and Information Services	$15,000	$15,000	$0
9	Legal Charges	$11,774	$29,000	$17,226
10	Consulting Outside Service Charges (UES) & OCA Consultant Expense	$36,035	$55,000	$18,965
11	Administrative Service Charges	$5,277	$3,920	($1,357)
12	EDC Portion of the annual PUC Assessment	$161,248	$162,000	$752
13	Net Metering Credits	$124,098	$130,303	$6,205
14	Net Metering costs	$0	$0	$0
15	RGGI Auction Proceeds	($1,982,567)	($2,127,518)	($144,951)
16	Other Regulatory Expenses	$0	$0	$0
17	Working Capital associated with Other Flow-Through Operating Expenses - excluding transmission costs	$90,337	$68,400	($21,937)
18	Displaced Distribution Revenue	$243,087	$291,559	$48,472
19	Total External Delivery Costs	$38,326,563	$37,197,382	($1,129,181)

Q. Please explain the projected decrease in External Delivery costs for the upcoming EDC rate period (August 2021 through July 2022) over the current EDC rate period (August 2020 through July 2021).

A. The External Delivery costs for the upcoming EDC rate period are projected to be $1,050,854 lower than or 3% below those in the current rate period. The largest contributor to the decrease is the projected costs associated with Third Party Transmission Providers (Eversource Wholesale Distribution) for interconnection and distribution delivery services. The current period reflects true-ups of the Schedule 21-ES Transmission Tariff Category for 2019 which booked in August 2020 and for 2020 which is estimated in June 2021. Together, these true-ups total $3.8 million. The 2020 true-up is an under-recovery position primarily driven by higher revenue requirements in actual than forecasted.

Q. Describe Unitil's effort to reduce peak demand.

A. The Company filed in its joint 2021-2023 Statewide Energy Efficiency Plan[5], several C&I and Residential Active Demand Reduction ("ADR") offerings to reduce customer costs and provide benefits to the ISO-NE electric grid. The goals of the ADR programs are to flatten peak loads, improve system load factors, and reduce long-term costs for New Hampshire customers. Program offerings include residential direct load control offerings focused on reducing summer peak demand; C&I load curtailment which provides an incentive for verifyable shedding of load

[5] DE 20-092, Revised by Settlement and submitted January 19, 2021.

by participants; and storage performance which is a BYOD pay-for-performance ADR offering which provides an incentive to customers with BTM storage at their facilities.

Q. What legal charges does UES expect to incur under the EDC?

A. UES estimates that it will incur legal charges of $29,000 for the upcoming EDC rate period (August 2021 through July 2022). These costs include charges for work on a FERC wheeling tariff rate filing that the Company expects to make within the upcoming EDC rate period. These costs also cover the UES portion of the NAESB membership as well as an estimate to cover routine legal costs. Any legal costs associated with procurement of Default Service are recovered through the Default Service Charge.[6]

Q. What consulting charges does UES expect to incur under the EDC?

A. UES estimates that it will incur approximately $55,000 in outside consulting service charges for the upcoming EDC rate period (August 2021 through July 2022). These costs include charges associated with the FERC wheeling tariff filing previously referenced as well as estimated costs to the State of New Hampshire and/or OCA consultants.

[6] This is in accordance with the settlement agreement approved in Docket No. DE 05-064.

Q. Please provide the detail behind the estimate for the Administrative Service Charges.

A. Details regarding the ASC are provided in Schedule LSG-3 on lines 10 through 18. The ASC includes any costs incurred by UPC, relative to UPC's obligations under the Amended Unitil System Agreement, which are not otherwise assigned or assumed by UES. These costs include NEPOOL, ISO, and RTO costs, as well as legal, consulting, and other outside services. It does not include any internal costs of USC, UES or UPC. These costs are projected to be lower compared to the prior period.

Q. Has UES included Regional Greenhouse Gas Initiative (RGGI) rebates in the proposed EDC?

A. Yes. UES has included the rebate of excess RGGI auction proceeds applicable to all retail electric customers as a separate line item in the EDC. UES records the rebates in the EDC on the month in which it is received, and applies carrying charges. For the actual period of August 2019 through May 2021, UES has recorded six rebate amounts totaling $2,434,812. In accordance with Order No. 25,664, UES has included estimates of auction amounts it expects to receive through July 2022 in order to ensure customers receive the credit, or estimate thereof, in a timely manner. These estimates are shown on Schedule LSG-2, Pages 3 and 4.

Q. Has UES included in this filing the recovery of costs associated with lost distribution revenue due to net metering?

A. Yes. In accordance with Order No. 25,991 in DE 15-147, UES is allowed to recover displaced distribution revenue through its EDC. Please see the Testimony and Exhibits prepared by Mr. Douglas Debski.

VI. UPC COSTS AND REVENUES

Q. Has UPC prepared an accounting of the costs and revenues to UPC under the CRP and the ASC?

A. Yes. Schedule LSG-4 provides this accounting for the period beginning August 2019 through May 2021. UPC bills UES estimates of the CRP and ASC on the 25th of the month for the upcoming month. The estimated expenses are trued-up to actual expenses on a two-month lag basis. In order to calculate the true-up, UPC tracks the actual expenses, which comprise both the CRP and the ASC. These actual expenses are compared to the estimated expenses to calculate the true-up for prior period. Schedule LSG-4 provides summary data of actual CRP and ASC expenses and revenues.

VII. CONCLUSION

R. Does that conclude your testimony?

A. Yes, it does.