Docket No. DE 22-017
Redacted Exhibit 2



March 25, 2022

### BY ELECTRONIC MAIL

Daniel Goldner, Chair New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

Re: PETITION FOR APPROVAL OF DEFAULT SERVICE SOLICITATION AND PROPOSED DEFAULT SERVICE TARIFFS Docket No. DE 22-017

### Dear Chair Goldner:

On behalf of Unitil Energy Systems, Inc. ("UES"), enclosed by electronic filing only is a Confidential and Redacted copy of "Petition for Approval of Default Service Solicitation and Proposed Default Service Tariffs." The Petition requests that the New Hampshire Public Utilities Commission ("Commission") approve UES's solicitation and procurement, for the period beginning June 1, 2022, of 100 percent of its Default Service ("DS") power supply requirements for its Non-G1 and G1 customers for six months, and approve the proposed tariffs incorporating the results of this solicitation into rates.

In support of the Petition, the filing includes the pre-filed direct testimony and schedules of:

- 1. Jeffrey M. Pentz, Senior Energy Analyst, Unitil Service Corp.
- 2. Linda S. McNamara, Senior Regulatory Analyst, Unitil Service Corp.
- 3. Daniel T. Nawazelski, Manager, Revenue Requirements, Unitil Service Corp.

As discussed in the testimony of Mr. Pentz, UES selected Hydro Quebec Energy Services ("HQUS") as the winning bidder of the small customer (Non-G1) supply

Matthew J. Fossum Senior Counsel fossumm@unitil.com 6 Liberty Lane West Hampton, NH 03842 requirement (100% share), HQUS as the winning bidder of the medium customer (Non-G1) supply requirement (100% share), and NextEra Energy Marketing, 5 LLC ("NextEra") as the winning bidder of the large customer (G1) supply requirement (100% share). All three transactions are for a period of six months. UES believes that HQUS and NextEra offered the best overall value in terms of both price and non-price considerations for the supply requirements sought.

The filing contains information which the Company submits is Confidential. The Company seeks confidential and protected treatment for this information pursuant to the provisions of Puc 201.06 and Puc 201.07.

An electronic copy of the non-confidential version of the filing is being provided to the Commission, the Department of Energy, and the Office of Consumer Advocate ("OCA").

Thank you for your attention to this matter. Please do not hesitate to contact me should you have any questions.

Sincerely,

Matthew J. Fossum Senior Counsel

Enclosures

CC: Service List

NH Department of Energy – <u>energy-litigation@energy.nh.gov</u>; Office of Consumer Advocate – <u>ocalitigation@oca.nh.gov</u>; Donald M. Kreis, Consumer Advocate

Docket No. DE 22-017 Exhibit 2

#### BEFORE THE NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

	)	
UNITIL ENERGY SYSTEMS, INC.	)	DOCKET NO. DE 22-017
Petitioner	)	
	)	

### PETITION FOR APPROVAL OF DEFAULT SERVICE SOLICITATION AND PROPOSED DEFAULT SERVICE TARIFF

Unitil Energy Systems, Inc., ("UES" or "Company") submits this Petition requesting:

1) approval of the New Hampshire Public Utilities Commission ("Commission") of UES's solicitation and procurement of three contracts for Default Service ("DS").

The first contract is for 100 percent of medium customer (G2 and outdoor lighting) default service requirements for six months in duration, June 1, 2022, through November 30, 2022; the second contract is for 100 percent of small customer (residential) default service requirements for six months in duration, June 1, 2022, through November 30, 2022; and the third contract is for 100 percent of large customer (G1) default service requirements for six months in duration, June 1, 2022, through November 30, 2022; and

2) approval of proposed tariffs incorporating the results of this solicitation into rates. As part of this request, and as discussed more fully below, UES seeks a final order granting the approvals requested herein no later than April 1, 2022. In support of its Petition, UES states the following:

### **Petitioner**

UES is a New Hampshire corporation and public utility primarily engaged in the distribution of electricity in the capital and seacoast regions of New Hampshire.

### **Background**

Pursuant to the terms of the Settlement Agreement approved by the Commission in Order No. 24,511 (September 9, 2005), and as modified by the approvals granted in

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Page 2 of 7

subsequent orders, including, most recently, Order No. 26,470 (April 13, 2021), UES has solicited for DS power supplies for three contracts: The first contract is for 100 percent of medium customer default service requirements, six months in duration. The second contract is for 100 percent of small customer default service requirements for six months in duration. The third contract is for 100 percent of large customer default service requirements, six months in duration. All contract deliveries will begin June 1, 2022. The solicitation process was conducted in accordance with the model schedule contained in the Settlement Agreement, as modified by the approvals granted in Order No. 25,397 (July 31, 2012).

UES submits this Petition in compliance with the Settlement Agreement and orders issued in Docket No. DE 05-064 and subsequent related proceedings, and requests approval of the results of its most recent solicitation, as described more fully below and in the attached exhibits, and also requests approval of the tariffs included with this filing.

### **Description of Exhibits**

Attached to this Petition are the following Exhibits:

Exhibit JMP-1: Testimony and Schedules of Jeffrey M. Pentz.

Exhibit LSM-1: Testimony and Schedules of Linda S. McNamara.

Exhibit DTN-1: Testimony and Schedules of Daniel T. Nawazelski.

### **Solicitation Process and Selection of Winning Bidders**

UES submits that it has conducted the solicitation process, made its selection of the winning bidders and entered into Power Supply Agreements in accordance with the representations set forth in its Petition submitted on April 1, 2005, as amended by the

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Settlement Agreement filed on August 11, 2005 and as approved by the Commission in its orders in Docket No. DE 05-064 and subsequent related dockets. Details of UES's compliance in this regard are set forth in Exhibit JMP-1 and the Bid Evaluation Report attached as Schedule JMP-1 thereto. A copy of the RFP with Appendices is included as Schedule JMP-2. A redline version of the final Power Supply Agreements with the winning bidders is provided in the confidential attachment labeled Tab A to Schedule JMP-1.

### **Proposed Tariffs**

UES's proposed tariffs are included with this filing and are provided in redline as Schedule LSM-1 attached to Exhibit LSM-1. UES requests approval of these proposed tariffs.

### **Updated Lead Lag Study**

Also included in this filing is an updated lead/lag study ("2021 UES Default Service and Renewable Energy Credits Lead Lag Study"). Pursuant to the Settlement Agreement approved by the Commission in Docket No. DE 05-064, UES's internal administrative costs and supply-related working capital costs, based on actual supply costs and an agreed upon lead/lag study or its equivalent, are recovered through DS rates on a fully reconciling basis. This 2021 Lead Lag Study incorporates changes agreed to by UES and the Commission Staff reflected in the settlement letter dated July 16, 2009 filed in Docket No. DE 09-009, and approved by the Commission in Order No. 25,011, issued September 4, 2009. UES recognizes that the Commission, Department of Energy Staff, and interested parties such as the OCA, may not have a sufficient opportunity to

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review the updated lead/lag study within the time frame that UES is requesting approval of the tariffs. Accordingly, UES requests approval of the proposed tariffs as filed, subject to further investigation and review of the lead/lag study and subject to reconciliation, if necessary.

### **Proposed Rate Calculations**

The rate calculations for the Non-G1 class Power Supply Charges, fixed and variable, are provided on Schedule LSM-2, Page 1. The rate calculations for the Non-G1 class RPS Charges, fixed and variable, are provided on Schedule LSM-3, Page 1.

Schedule LSM-4, Page 1, shows the proposed G1 Power Supply Charges, excluding wholesale supply charges, and Schedule LSM-5, Page 1, shows the proposed G1 RPS Charge.

### **Bill Impacts**

Schedule LSM-6 provides typical bill impacts for its non-G1 customers associated with UES's proposed DS rate changes for customers who do not choose a competitive supplier.

### **Confidential Material**

UES requests protective treatment, pursuant to the procedures in Puc 201.06 and Puc 201.07, with respect to: the designated portions of Tab A CONFIDENTIAL of Schedule JMP-1; Page 5 of Schedule LSM-2; Page 3 of Schedule LSM-4; Schedule DN-2; and the e-mails exchanged with the counsel for the Department of Energy and the Office of the Consumer Advocate on March 25, 2022, which contain confidential material, which contain confidential material. UES does not request confidential

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treatment of the identity of the winning bidders, which are provided in the cover letter and also in the public pre-filed testimony of Mr. Pentz in Exhibit JMP-1, accompanying this Petition.

### **Request for Approvals**

UES respectfully requests that the Commission issue a final order no later than April 1, 2022, containing the following findings of fact, conclusions and approvals:

- 1. FIND that UES has followed the solicitation process approved by the Commission;
- 2. FIND that UES's analysis of the bids submitted was reasonable;
- 3. FIND that UES has supplied a reasonable rationale for its choice of supplier;
- 4. CONCLUDE that, based upon the above Findings, the power supply costs which result from the solicitation are reasonable;
- 5. CONCLUDE that, based upon the above Findings and Conclusion that the power supply costs which result from the solicitation are reasonable, and subject to the ongoing obligation of UES to act prudently, according to law and in conformity with Commission orders, the amounts payable to the seller for power supply costs under the power supply agreements for G1 and non-G1 customers are approved for inclusion in retail rates beginning June 1, 2022.
- 6. GRANT APPROVAL of the tariff changes requested herein.
- 7. GRANT APPROVAL of the request for Protective Treatment of the designated confidential material pursuant to Puc 201.06 and Puc 201.07.

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8. GRANT APPROVAL of the 2021 UES Default Service and Renewable Energy Credits Lead Lag Study, subject to further review and investigation if necessary.

### Conclusion

For all of the foregoing reasons, UES requests that the Commission grant it the approvals requested in this Petition, and for such other relief as the Commission may deem necessary and proper.

Respectfully submitted,

UNITIL ENERGY SYSTEMS, INC. By its Attorney:

Matthew J. Fossum Senior Counsel Unitil Service Corp. 6 Liberty Lane West Hampton, NH 03842-1720 603.773.6537 fossumm@unitil.com

March 25, 2022

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### **CERTIFICATE OF SERVICE**

I certify that I have caused copies of Unitil Energy Systems, Inc.'s, "Petition for Approval of Default Service Solicitation and Proposed Default Service Tariffs" to be served on the following parties or individuals:

New Hampshire Department of Energy 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

Office of Consumer Advocate 21 S. Fruit Street, Suite 18 Concord, NH 03301-2429

Donald M. Kreis, Consumer Advocate Office of Consumer Advocate 21 S. Fruit Street, Suite 18 Concord, NH 03301-2429

Dated this 25th day of March, 2022.

Matthew J. Fossum

NHPUC No. 3 - Electricity Delivery Unitil Energy Systems, Inc.

Thirty-Second Revised Page 74 Superseding Thirty-First Revised Page 74

### CALCULATION OF THE DEFAULT SERVICE CHARGE

#### Non-G1 Class Default Service:

Issued: March 25, 2022

Effective: June 1, 2022

Non-G1 Class Default Service:	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Total
Power Supply Charge	<u>Juli-22</u>	<u>Jui-22</u>	Aug-22	<u>Sep-22</u>	<u>Oct-22</u>	<u>140V-22</u>	<u> 10tai</u>
Residential Class 1 Reconciliation	(\$52,449)	(\$67,924)	(\$77,770)	(\$60,368)	(\$49,458)	(\$54,811)	(\$362,781)
2 Total Costs	\$2,707,394	\$3,872,078	\$4,540,764	\$3,280,713	\$2,827,234	\$4,226,695	\$21,454,879
3 Reconciliation plus Total Costs (L.1 + L.2)	\$2,654,944	\$3,804,154	\$4,462,994	\$3,220,345	\$2,777,776	\$4,171,884	\$21,092,098
4 kWh Purchases	33,522,825	43,413,342	49,706,529	38,583,854	31,610,590	35,032,503	231,869,643
5 Total, Before Losses (L.3 / L.4)	\$0.07920	\$0.08763	\$0.08979	\$0.08346	\$0.08787	\$0.11909	\$0.09097
6 Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
Total Retail Rate - Residential Variable Power Supply Charge (L.5 * (1+L.6)) Total Retail Rate - Residential Fixed Power Supply Charge (L.5 * (1+L.6))	\$0.08427	\$0.09323	\$0.09553	\$0.08881	\$0.09350	\$0.12671	\$0.09679
G2 and OL Class 9 Reconciliation	(\$25,800)	(\$29,758)	(\$32,372)	(\$27,994)	(\$24,823)	(\$25,153)	(\$165,900)
10 Total Costs	\$1,216,247	\$1,612,248	\$1,794,453	\$1,369,359	\$1,268,844	\$1,807,126	\$9,068,277
11 Reconciliation plus Total Costs (L.9 + L.10)	\$1,190,447	\$1,582,490	\$1,762,081	\$1,341,365	\$1,244,021	\$1,781,973	\$8,902,377
12 kWh Purchases	16,490,877	19,021,120	20,692,145	17,893,536	15,866,604	16,077,538	106,041,819
13 Total, Before Losses (L.11 / L.12)	\$0.07219	\$0.08320	\$0.08516	\$0.07496	\$0.07840	\$0.11084	\$0.08395
14 Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
Total Retail Rate - G2 and OL Variable Power Supply Charge (L.13 * 15 (1+L.14)) Total Retail Rate - G2 and OL Fixed Power Supply Charge (L.13 *	\$0.07681	\$0.08852	\$0.09061	\$0.07976	\$0.08342	\$0.11793	
16 (1+L.14))							\$0.08932

Renewable Portfolio Standard (RPS) Charge							
17 Reconciliation	(\$150,253)	(\$187,567)	(\$211,494)	(\$169,671)	(\$142,632)	(\$153,546)	(\$1,015,164)
18 Total Costs	<u>\$356,315</u>	<u>\$444,798</u>	<u>\$501,533</u>	\$402,361	\$338,245	\$364,122	<u>\$2,407,374</u>
19 Reconciliation plus Total Costs (L.17 + L.18)	\$206,063	\$257,230	\$290,039	\$232,690	\$195,613	\$210,576	\$1,392,210
20 kWh Purchases	50,013,703	62,434,462	70,398,674	56,477,390	47,477,194	51,110,040	337,911,462
21 Total, Before Losses (L.19 / L.20)	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412
22 Losses	6.40%	6.40%	6.40%	6.40%	<u>6.40%</u>	6.40%	<u>6.40%</u>
23 Total Retail Rate - Variable RPS Charge (L.21 * (1+L.22)) 24 Total Retail Rate - Fixed RPS Charge (L.21 * (1+L.22))	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438

TOTAL DEFAULT SERVICE CHARGE							
Total Retail Rate - Residential Variable Default Service 25 Charge (L.7 + L.23)	\$0.08865	\$0.09761	\$0.09991	\$0.09319	\$0.09788	\$0.13109	
Total Retail Rate - Residential Fixed Default Service 26 Charge (L.8+L.24)							\$0.10117
Total Retail Rate - G2 and OL Variable Default Service  Charge (L.15 + L.23)  Total Retail Rate - G2 and OL Fixed Default Service	\$0.08119	\$0.09290	\$0.09499	\$0.08414	\$0.08780	\$0.12231	
28 Charge (L.16+L.24)							\$0.09370

Authorized by NHPUC Order No.

in Case No. DE 22-

, dated

### CALCULATION OF THE DEFAULT SERVICE CHARGE

	G1 Class Default Service:	<u>Jun-22</u>	<u>Jul-22</u>	<u>Aug-22</u>	<u>Sep-22</u>	Oct-22	<u>Nov-22</u>	<u>Total</u>
	Power Supply Charge							
1	Reconciliation							\$235,673
2	Total Costs excl. wholesale supplier charge							<u>\$29,567</u>
3	Reconciliation plus Total Costs excl. wholesale supplier charge (L.1 + L.2)							\$265,240
4	kWh Purchases							31,230,935
5	Total, Before Losses (L.3 / L.4)							\$0.00849
6	Losses							4.591%
7	Power Supply Charge excl. wholesale supplier charge (L.5 * $(1+L.6)$ )	\$0.00888	\$0.00888	\$0.00888	\$0.00888	\$0.00888	\$0.00888	\$0.00888
8b	Wholesale Supplier Charge Losses Retail Rate - Wholesale Supplier Charge (L.8a *	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	
8	(1+L.8b))	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
9	Total Retail Rate - Power Supply Charge (L.7 + L. 8)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
	Renewable Portfolio Standard (RPS) Charge							
10	Reconciliation	(\$13,931)	(\$15,161)	(\$16,050)	(\$14,685)	(\$13,623)	(\$13,194)	(\$86,643)
11	Total Costs	\$36,371	\$39,583	<u>\$41,902</u>	\$38,339	<u>\$35,566</u>	<u>\$34,446</u>	\$226,207
12	Reconciliation plus Total Costs (L.10+ L.11)	\$22,440	\$24,422	\$25,853	\$23,654	\$21,943	\$21,252	\$139,564
13	kWh Purchases	<u>5,021,504</u>	5,464,982	<u>5,785,176</u>	5,293,166	4,910,387	4,755,719	31,230,935
14	Total, Before Losses (L.12 / L.13)	\$0.00447	\$0.00447	\$0.00447	\$0.00447	\$0.00447	\$0.00447	
15	Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
16	Total Retail Rate - RPS Charge (L.14 * (1+L.15))	\$0.00467	\$0.00467	\$0.00467	\$0.00467	\$0.00467	\$0.00467	
	TOTAL DEFAULT SERVICE CHARGE							
17	Total Retail Rate - Default Service Charge (L.9 + L.16)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	

Authorized by NHPUC Order No.

in Case No. DE 22- , dated

Issued: March 25, 2022 Effective: June 1, 2022 Issued By: Robert B. Hevert Sr. Vice President

# Unitil Energy Systems, Inc Default Service Solicitation and Proposed Default Service Tariffs March 25, 2022 Table of Contents

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Petition and Certificate of Service

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UNITIL ENERGY SYSTEMS, INC.

**DIRECT TESTIMONY OF** 

JEFFREY M. PENTZ

**New Hampshire Public Utilities Commission** 

Docket No. DE 22-017

March 25, 2022

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### LIST OF SCHEDULES

**Schedule JMP-1: Bid Evaluation Report** 

**Schedule JMP-2: Request for Proposals** 

**Schedule JMP-3: Customer Migration Report** 

**Schedule JMP-4: RPS Compliance Cost Estimates** 

**Schedule JMP-5: Historical Pricing by Customer Group** 

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### 1 I. INTRODUCTION

- 2 Q. Please state your name and business address.
- 3 A. My name is Jeffrey M. Pentz. My business address is 6 Liberty Lane West, Hampton,
- 4 NH 03842.
- 5 Q. What is your relationship with Unitil Energy Systems, Inc.?
- 6 A. I am employed by Unitil Service Corp. ("USC") as a Senior Energy Analyst. USC
- 7 provides management and administrative services to Unitil Energy Systems, Inc.
- 8 ("UES") and Unitil Power Corp. ("UPC").
- 9 Q. Please briefly describe your educational and business experience.
- 10 A. I received my Bachelor of Arts degree in Economics from the University of
- Massachusetts. Before joining Unitil I worked as a Contracting and Transaction
- 12 Analyst with Mint Energy, a retail electric supplier. My range of responsibilities
- included contract negotiation with brokers and customers, retail billing, and sales.
- Prior to Mint Energy, I worked as a data analyst for Energy Services Group. My
- responsibilities included supplier business transaction testing and integration with
- regulated utilities. I joined USC in February 2016 as an Energy Analyst with the
- 17 Energy Contracts department. In January 2019 I was promoted to my current position
- as Senior Energy Analyst. I have primary responsibilities in the areas of load
- settlement, renewable energy credit procurement, renewable portfolio standard
- 20 compliance, default service procurement, market research and operations, and
- 21 monitoring renewable energy policy.

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- 1 Q. Have you previously testified before the New Hampshire Public Utilities
- 2 Commission ("Commission")?
- 3 A. Yes, I have testified before the Commission in previous Default Service Solicitation
- 4 proceedings.
- 5 II. PURPOSE OF TESTIMONY
- 6 Q. Please describe the purpose of your testimony.
- 7 A. This testimony documents the solicitation process followed by UES in its acquisition
- 8 of Default Service power supplies ("DS") for its G1 and Non-G1 customers as
- 9 approved by the Commission in Order No. 25,397, dated July 31, 2012 (the "Order")
- granting UES's Petition for Approval of Revisions to its Default Service Solicitation
- Process for G1 and Non-G1 Customers. With the current Request for Proposal
- 12 ("RFP"), UES has contracted for a six-month default service power supply for 100%
- of its small customer group (Non-G1); 100% of its medium customer group (Non-G1);
- and 100% of its large customer group (G1) service requirements. Service begins on
- 15 June 1, 2022.
- 16 Q. Please describe the documents provided with this filing.
- 17 Supporting documentation and additional detail of the solicitation process is provided
- in the Bid Evaluation Report ("Report"), attached as Schedule JMP-1. The structure,
- timing and requirements associated with the solicitation are fully described in the RFP
- issued on February 22, 2022 and is attached as Schedule JMP-2. An updated Customer
- Migration Report is attached as Schedule JMP-3. The Customer Migration Report

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shows monthly retail sales and customer counts supplied by competitive generation, total retail sales and customer counts (the sum of default service and competitive generation) and the percentage of sales and customers supplied by competitive generation. The report provides a rolling 13-month history which covers the period from January 2021 through January 2022. Renewable Portfolio Standard ("RPS") Compliance Cost Estimates are included as Schedule JMP-4. My testimony reviews UES's approach to compliance with the RPS which went into effect in January 2008. Schedule JMP-4 details projected obligations and price assumptions for the coming rate period. The price assumptions are based on recent market data information and alternative compliance payment prices. Lastly, Schedule JMP-5 provides historical price data by customer group that is no longer subject to confidential treatment. This schedule provides pricing histories associated with the most recent six-month rate periods for Non-G1 and G1 customers for which all pricing is currently subject to the Federal Energy Regulatory Commission's quarterly reporting requirements.

- 15 Q. Please summarize the approvals UES is requesting from the Commission.
- 16 A. UES requests that the Commission:

Find that: UES has followed the solicitation process approved by the Commission;
 UES's analysis of the bids submitted was reasonable; and UES has supplied a reasonable rationale for its choice of the winning suppliers.

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- Find that: the price estimates of renewable energy certificates ("RECs") proposed by UES, which are based on actual purchases or current market prices and information, are appropriate for inclusion in retail rates.
  - On the basis of these findings, conclude that the power supply costs resulting from
    the solicitation are reasonable and that the amounts payable to the sellers under the
    supply agreements are approved for inclusion in retail rates.
- Issue an order granting the approvals requested herein on or before April 1, 2022,
   which is five (5) business days after the date of this filing.

### 9 III. SOLICITATION PROCESS

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- 10 Q. Please discuss the Solicitation Process UES employed to secure the supply
  11 agreements for default service power supplies.
  - A. UES conducted an open solicitation in which it actively sought interest among potential suppliers to provide load-following power supply to its Default Service customers. UES provided bidders with appropriate information to enable them to assess the risks and obligations associated with providing supply services. UES did not discriminate in favor of or against any individual potential supplier who expressed interest in the solicitation. UES negotiated with all potential suppliers who submitted proposals to obtain the most favorable terms from each potential supplier. The structure, timing and requirements associated with the solicitation are fully described in the RFP issued on February 22, 2022. This is attached as Schedule JMP-2 and is summarized in the Bid Evaluation Report attached as Schedule JMP-1.

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### 1 Q. How did UES ensure that the RFP was circulated to a large audience?

A.

A. UES announced the electronic availability of the RFP to a list of power suppliers and brokers. The RFP was also distributed to all members of the NEPOOL Markets Committee and Participants Committee. As a result, the RFP had wide distribution throughout the New England supply marketplace, including distribution companies, consultants, and members of public agencies. UES followed up the E-mail solicitation with outreach to power suppliers to solicit their interest in bidding on any and all customer classes.

### 9 Q. What information was provided in the RFP to potential suppliers?

The RFP provides background information and historical data, details the service requirements and commercial terms, explains the process for selecting the winning bidders. To gain the greatest level of market interest in supplying the load, UES provided potential bidders with appropriate and accessible information. Data provided included historical hourly default service loads and daily capacity tags for each customer group; class average load shapes; historical monthly retail sales and customer counts by rate class and supply type; and the evaluation loads, which are the estimated monthly volumes that UES would use to weigh bids in terms of price. The retail sales report and the historical loads and capacity tag values were updated prior to final bidding to provide the latest information available.

### Q. How did UES evaluate the bids received?

Docket No. DE 22-017 Exhibit 2

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A. UES evaluated the bids on both quantitative and qualitative criteria, including price, market conditions, creditworthiness, willingness to extend adequate credit to UES to 3 facilitate the transaction, capability of performing the terms of the RFP in a reliable manner and the willingness to enter into contractual terms acceptable to UES. UES 5 compared the pricing strips proposed by the bidders by calculating weighted average prices for the supply requirement using the evaluation loads that were issued with the 6 7 RFP.

#### Q. How did market conditions impact the prices for this next period?

Overall, pricing submitted for the Small and Medium classes (Non-G1) for the upcoming period from June 1, 2022 – November 30, 2022 is 60% higher than the same period a year ago and 41% lower than the previous 6-month period from December 1, 2021 to May 31, 2022. Pricing for the large customer class (G1) adder is 9.8% lower than the previous 6-month period and 6.7% lower than the same period a year ago. The increase in pricing compared to the same period last year is directly attributed to significant increases in forward natural gas prices, which have a direct effect on power futures. The decrease in pricing compared to previous period is attributed to lower forward natural gas prices experienced during warmer months. Considering these market conditions, the company determined that the pricing submitted was market based and competitive.

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2 Q. Please summarize the winning bidders for each customer supply requirement.

- A. UES selected Hydro Quebec Energy Services ("HQUS") as the winning bidder for the small customer (Non-G1) supply requirement (100% share) and the medium customer (Non-G1) supply requirement (100% share). UES selected NextEra Energy Marketing, LLC ("NextEra") as the winning bidder of the large customer (G1) supply requirement (100% share). All three transactions are for a period of six months. UES believes that HQUS and NextEra offers the best overall value in terms of both price and non-price considerations for the supply requirements sought.
- 10 Q. Please describe the contents of the Bid Evaluation Report.
- A. Schedule JMP-1 contains the Bid Evaluation Report which further details the solicitation process, the evaluation of bids, and the selection of the winning bidders.

  The Report contains a narrative discussion of the solicitation process. Additional discussion regarding the selection of the winning bidders is provided along with several supporting exhibits that list the suppliers who participated, as well as the pricing they submitted and other information considered by UES in evaluating final proposals, including redlined versions of the final supply agreements.
  - On the basis of the information and analysis contained in the Bid Evaluation Report,

    UES submits that it has complied with the procurement process approved by the

    Commission, and that the resulting default service power supply costs are reasonable

NHPUC Docket No. DE 22-017 Testimony of Jeffrey M. Pentz Exhibit JMP-1 Page 8 of 10

and that the amounts payable to the sellers under the supply agreements should be approved for inclusion in retail rates.

### 3 Q. Please elaborate on the supplier response to this solicitation.

A. UES reached out to a number of suppliers early in the process to solicit and gauge supplier interest. Bidder response for this solicitation increased slightly when compared to the prior solicitation. One supplier that had not participated in the most recent solicitation decided to participate in the current solicitation. The response from suppliers bidding an add-on charge for the G-1 large customer load continues to be limited, however participation levels remained the same when compared to the previous solicitation. Feedback from some bidders is the large customer load is too small to serve. Additionally, large customer migration to a third party supplier is a concern for some bidders. The Company will continue to reach out to suppliers to encourage their participation.

# Q. Please indicate the planned issuance date, filing date and expected approval date associated with UES's next default service solicitation.

A. Similar to the current solicitation, UES's next default service solicitation will be for one hundred percent (100%) of the small, medium and large customer supply requirements for a six-month period. Delivery of supplies will begin on December 1, 2022. UES plans to issue an RFP for these supplies on August 23, 2022, with a filing for approval of solicitation results planned for September 23, 2022 and approval anticipated by September 30, 2022.

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### 1 IV. RENEWABLE PORTFOLIO STANDARD COMPLIANCE

- 2 Q. Please explain how UES is complying with the Renewable Portfolio Standard
- 3 requirements.
- 4 A. In accordance with the settlement agreement dated July 16, 2009 (DE. 09-009) and as 5 amended on December 6, 2011, UES will conduct two REC RFPs during each 6 compliance year to obtain Existing RECs and/or Forward RECs to meet 100% of its 7 projected REC obligations. In addition, UES may make REC purchases outside of the 8 RFP process when it finds it advantageous to do so. To meet its 2021 and 2022 RPS 9 compliance requirements, UES issued an RFP in October 2021 for approximately half 10 of its 2021 and 2022 RPS requirements. UES plans on issuing a second RFP in 11 October 2022 for the remainder of 2022 RPS requirements and half of its 2023 12 requirements. Tab A includes an exhibit summarizing UES's REC purchases for RPS 13 compliance.
- 14 Q. Please describe UES's estimates of RPS compliance costs.
- 15 A. The current solicitation is for default service power supplies to be delivered beginning
  16 June 1, 2022. Schedule JMP-4 lists the percentage of sales and the resulting REC
  17 requirement for each class of RECs for RPS compliance along with UES's cost
  18 estimates for the period beginning June 1, 2022. UES's cost estimates are based on
  19 current market prices as communicated by brokers of renewable products, recent
  20 purchases of RECs, and alternative compliance payment rates ("ACP").

NHPUC Docket No. DE 22-017 Testimony of Jeffrey M. Pentz Exhibit JMP-1 Page 10 of 10

- 1 Q. Does UES's estimate of RPS costs incorporate the latest RPS requirements for
- 2 2022?
- 3 A. Yes. The following table provides a summary of the RPS requirements.

	NH Rene	wable Portfo	lio Standaı	rds: 2022	
Calendar Year	Class I *	Class I Thermal	Class II	Class III	Class IV
2022	12.30%	2.0%	0.7%	8.00%	1.5%
		nent which include Thermal Carve-C			

- 8 Schedule JMP-4 RPS Compliance Costs Estimates incorporates the latest RPS
- 9 requirements shown here.
- 10 VII. CONCLUSION
- 11 Q. Does this conclude your testimony?
- 12 A. Yes.

Docket No. DE 22-017 Exhibit 2 Schedule JMP-1 Page 1 of 6

### DE 22-017 – Unitil Energy Systems, Inc.

## **Default Service RFP Bid Evaluation Report**

Small Customers (100%): June 1, 2022 – November 30, 2022 Medium Customers (100%): June 1, 2022 – November 30, 2022 Large Customers (100%): June 1, 2022 – November 30, 2022

RFP Issue Date: February 22, 2022

Filing Date: February 25, 2022

# Unitil Energy Systems, Inc. ("UES") Default Service RFP Bid Evaluation Report

### Table of Contents

Introduction	3
Solicitation Process	4
Selection of Winning Bidders	5

Schedule JMP-1 Page 3 of 6

## Unitil Energy Systems, Inc. Bid Evaluation Report

### Introduction

On Tuesday, February 22, 2022, UES announced that its Request for Proposals ("RFP") for Default Service ("DS") supplies for the period beginning June 1, 2022 was available. In accordance with UES's DS supply proposal as approved by the Commission in Order No. 25,397 ("the Order"), UES issued this RFP to obtain fixed monthly price offers to supply one-hundred percent (100%) of the small and medium customer groups for the six-month period beginning June 1, 2022. In addition, UES also sought variable monthly prices to supply one-hundred percent (100%) of the G1, or large customer default service group, for a six-month period beginning June 1, 2022. The RFP sought monthly adders (which would be fixed for the month, but could vary by month) that would be added to the real-time locational marginal price to determine the wholesale cost.

The RFP issued on February 22, 2022, was consistent in form and substance to the prior RFP issued by UES on August 31, 2021. On March 22, 2022, UES filed with the Commission a redlined version of the current RFP, marked to show changes from the RFP issued on August 31, 2021. A copy of the RFP documents issued to the market on February 22, 2022, including the Proposal Submission Form, the proposed Power Supply Agreement ("PSA"), the proposed PSA Amendment, and Non-Disclosure Agreement are attached to the petition as Schedule JMP-2.

UES received bids from qualified suppliers who competed to serve the load requirements. The winner of the six-month small customer (Non-G1) default service requirement and the medium customer (Non-G1) default service requirement was Hydro Quebec Energy Services ("HQUS"). The winner of the large customer (G1) default service requirement was Nextera Energy Marketing, LLC ("Nextera"). These suppliers offer the best overall value for the service requirements. The default service power supply prices obtained by UES are the result of a competitive solicitation and are reflective of current market

Schedule JMP-1 Page 4 of 6

conditions. This Bid Evaluation Report ("Report") describes UES's solicitation process and its selection of the winning bidders.

UES's comparison of bids, which is confidential and for which UES seeks protective treatment as described in the cover letter and motion for protective treatment accompanying this filing, is included in Tab A to this Report. Details of the market response, including bid prices, and certain non-price considerations and selection rationale, are also included in the Tab A materials.

### Solicitation Process

UES issued its request for proposals on Tuesday, February 22, 2022 to 19 suppliers and brokers. The RFP was also distributed to all members of the NEPOOL Markets Committee and the Participants Committee. As a result, the RFP had wide distribution throughout the New England supply marketplace.

The RFP documents and accompanying data files were provided to interested parties via the Company's RFP website. The RFP described the specifics of UES's DS, the related customer-switching rules, the form of power service sought, and the evaluation criteria. The RFP documents included a Proposal Submission Form, a proposed Power Supply Agreement ("PSA"), proposed PSA Amendment for use by suppliers who are currently serving load or have previously served load, a Non-Disclosure Agreement, and various data files.

To gain the greatest level of market interest in supplying the loads, UES provided potential bidders with appropriate information, including along with the RFP, UES provided historical hourly loads and daily capacity tag values for UES's DS customers for the period from January 1, 2017 through January 31, 2022. UES also provided an Excel spreadsheet containing historic retail monthly sales and customers reports from January 1, 2017 through January 31, 2022. The monthly reports detail by customer rate class the monthly retail billed kWh sales and the number of customers receiving DS and competitive generation supply. Also provided to potential suppliers was class average load shape (8760 hours) data and distribution loss factors associated with each rate class.

Schedule JMP-1 Page 5 of 6

Lastly, UES provided Bid Sheets with estimated monthly volumes expected to be purchased under default service for the term during which service was sought. As described in the RFP, UES used these estimated monthly loads to evaluate and weigh competing bids in terms of price. In the RFP, UES refers to these estimated loads as the "evaluation loads." The RFP makes clear that the supplier's obligation is for actual loads and is not in any way limited by the RFP's use of the evaluation loads.

Throughout the solicitation, UES contacted potential bidders, responded to bidder questions, researched bidder qualifications and actively participated in maintaining bidder interest through regular telephone and electronic communications. UES did not discriminate in favor of or against any individual potential supplier who expressed interest in the solicitation, but endeavored to assist each interested bidder in their understanding of the transaction sought via the solicitation.

On March 8, 2022, UES received proposals from respondents that included detailed background information on the bidding entity, proposed changes to the contract terms and indicative pricing. UES reviewed the proposals and worked with the bidders to establish and evaluate their creditworthiness, their extension of adequate credit to UES to facilitate the transaction, their capability of performing the terms of the PSA in a reliable manner and their willingness to enter into contractual terms acceptable to UES. UES negotiated with all potential suppliers who submitted proposals to obtain the most favorable contract terms. All bidders were invited to submit final bids.

On March 22, 2022, UES received final pricing from bidders and conducted its evaluation. UES selected and notified HQUS that they were the winner of the small and medium default service requirements. UES selected Nextera as the winner of the large default service requirement. All other bidders were notified that they were not selected.

### Selection of Winning Bidders

UES based its selection of the winning bidders on both quantitative and qualitative criteria. Indicative bids were compiled and ranked based upon weighted average prices using the evaluation loads that were issued to bidders and assessed for any outliers. UES

Schedule JMP-1 Page 6 of 6

coordinated with bidders to obtain the best non-price terms each bidder was willing to offer and to establish confidence in each bidder's ability to perform. Final bids were again ranked based on the weighted average prices using the evaluation loads. In addition to the bid price and ability to meet credit requirements, UES also performed a qualitative review of each bidder's ability to provide default service during the service period, including the following:

- The bidder's past experience in providing similar services to UES;
- The bidder's past experience in providing similar services to other companies in New England and other regions;
- The bidder's demonstrated understanding of the market rules related to the provision of Default Service;
- The bidder's demonstrated understanding of its obligations under the proposed Power Service Agreement;
- Whether there have been any past or are there any present events that are known that may adversely affect the bidder's ability to provide Default Service.

UES has significant prior direct experience and working relationships with all of the suppliers who participated in the RFP. For newer suppliers, UES seeks input from references in order to verify the capabilities of the supplier, as well as performing an internal review of the new suppliers' financials for creditworthiness. The comparison of bids, which is confidential and which includes materials documenting UES's rationale for its selection of the winning bidders, is contained in Tab A.

### DE 22-017 – Unitil Energy Systems, Inc.

## **Default Service RFP Bid Evaluation Report**

Small Customers (100%): June 1, 2022 – November 30, 2022 Medium Customers (100%): June 1, 2022 – November 30, 2022 Large Customers (100%): June 1, 2022 – November 30, 2022

RFP Issue Date: February 22, 2022



# TAB A CONFIDENTIAL ATTACHMENT

Filing Date: March 25, 2022

Docket No. DE 22-017 Exhibit 2

# Unitil Energy Systems, Inc. ("UES") Default Service RFP Bid Evaluation Report

### Tab A. Comparison of Bids

### Table of Contents

### Discussion of Results

Tab A(1). Bidder Key
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### Tab A(2). Pricing Summaries

- G1 Bids, 6 Month Period
- Non-G1 Bids, 6 Month Period
- G1 Summary Pricing
- Non-G1 Summary Pricing
- Tab A(3) REC Purchases for RPS Compliance
- Tab A(4). Comparison to NYMEX Futures
- Tab A(5). Financial Security Requirements
- Tab A(6). Proposal Submission Forms
- Tab A(7). RFP Contact List
- Tab A(8). Redlined Power Supply Agreements

Redacted

### Unitil Energy Systems, Inc. Bid Evaluation Report - Tab A

### Discussion of Results

On March 22, 2022 UES selected Hydro Quebec Energy Services, Inc ("HQUS") as the winner of the small customer (Non-G1) supply requirement (100% share), and the medium customer (Non-G1) supply requirement. Nextera Energy Marketing, LLC ("Nextera") was the winning bidder of the large customer (G1) supply requirement (100% share). The supply requirements are for the provision of default service power supplies beginning June 1, 2022. As shown in the attached pages, the winning bidders represent the results of an open, competitive solicitation process.

### **Bidding Activity**

The attached bidder key in Tab A(1) lists all the participating suppliers. UES reviewed the bids received, evaluated the pricing as competitive, and proceeded to contract with the winning suppliers.

### Selection of Winners

The pricing comparison summaries shown in Tab A(2) list the bids received and ranks the bids according to price. The summaries also indicate the payment terms negotiated with each bidder and the interest costs associated with the payment terms calling for payment earlier than the end of the month after service is delivered. The total costs, and the deltas from the low price bidder's costs, listed in these sections include the interest costs associated accelerated payment terms.

### **Contract Provisions**

To implement the transactions, UES executed an Amendment to the existing Power Supply Agreement ("PSA") with NextEra and a new PSA with HQUS. A Redlined version of the Amendment to the PSA issued with the RFP is attached as Tab A(8). The Amendment for Nextera adds the new transactions to Appendices A and B of their existing PSA. The Amendment is subject to termination if UES is unable to obtain Commission approval of the Petition by April 8, 2022. UES respectfully submits that a Commission decision by April 1, 2022, in accordance with the schedule established in Order No. 24,511, is important to the ongoing vitality of the solicitation process.

The materials listed in the Table of Contents as Tab A(1) through Tab A(8) follow. UES welcomes feedback from the Commission on the value of the following materials in facilitating its review of the solicitation results.

### Tab A(1). Bidder Key

The first item attached to this Comparison of Bids identifies the bidding entities who responded to UES's RFP for default service supplies. The materials that follow generally refer to the respondents as Bidder A, Bidder B, and so on.

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Indexed Bidder List with Selected Winners



Winner Customer Group and Supply Period
Bidder Small Customers, 6 Months Starting J

Bidder Small Customers, 6 Months Starting Jun 1, 2022
Bidder Medium Customers, 6 Months Starting Jun 1, 2022
Bidder Large Customers, 6 Months Starting Jun 1, 2022

## Tab A(2). Pricing Summaries

The second item attached to this Comparison of Bids shows summaries of the final bids received, including the total costs calculated on the basis of the evaluation loads and a ranking of the bids in terms of evaluated prices. The summaries list the cost delta and percentage of price delta of each bid compared to the lowest price bid. The summaries indicate the payment terms agreed to with each bidder and include the cost of differing payment terms among the bidders. In the summaries, "M30" stands for monthly payments due on the last day of the month following the month of service, "M20" stands for monthly payments due on the 20<sup>th</sup> of the month following the month of service, and "BI-MO" stands for bi-monthly payment terms.

# Pricing exhibits:

- G1 Bids, 6 Month Period
- Non-G1 Bids, 6 Month Period
- G1 Summary Pricing
- Non-G1 Summary Pricing

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Pricing Comparison

# Bids for Small Customers (Asset 11451) - FINAL Default Service Requirements for 6 Months (\$/MWH)

Month of Service	Eval Loads (MWh)	
Jun-22	33,523	
Jul-22	43,413	
Aug-22	49,707	
Sep-22	38,584	
Oct-22	31,611	
Nov-22	35,033	
PERIOD	231,870	
POWER CO	OST (\$000)	
PAYMENT	TERMS	
INT. COST	(\$000)	
TOTAL COST (\$000)		
COST DELTA (\$000)		
PRICE RANKING		
PERCENT 1	DELTA	

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Pricing Comparison

# Bids for Medium Customers (Asset 11452) - FINAL Default Service Requirements for 6 Months (\$/MWH)

Month of Service	Eval Loads (MWh)	
Jun-22	16,491	
Jul-22	19,021	
Aug-22	20,692	
Sep-22	17,894	
Oct-22	15,867	
Nov-22	16,078	
PERIOD	106,042	
POWER CO	OST (\$000)	
PAYMENT	TERMS	
INT. COST	(\$000)	
TOTAL COST (\$000)		
COST DELTA (\$000)		
PRICE RANKING		
PERCENT I	DELTA	

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Pricing Comparison

# Bids for Large Customers (Asset 10019)- FINAL 100% DS Requirements for 6 Months (\$/MWH) - Variable Price Adder

Month of Service	Evaluation Loads (MWh)	
Jun-22	5,022	
Jul-22	5,465	
Aug-22	5,785	
Sep-22	5,293	
Oct-22	4,910	
Nov-22	4,756	
PERIOD	31,231	
POWER CO	OST (\$000)	
PAYMENT	TERMS	
INT. COST	(\$000)	
TOTAL CO	ST (\$000)	
COST DEL	ГА (\$000)	
PRICE RAN	IKING	
PERCENT I	DELTA	

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Historical Pricing Comparison, G1 Customers

Nov-16		G1 G1 Pricing G1 W				Wtd Avg	Change	Change
Dec-16	Supplier		(\$/	MWH)	Purchases (MWH)	_	Prior Period	Prior Year
Jan-17					*	\$ 54.07	18.0%	18 1%
Mar-17						ψ 54.07	10.070	10.470
Apr-17			-		*	<b>A</b> 40.00	4.4.007	10.00/
May-17					· ·	\$ 46.32	-14.3%	13.6%
Juli-17			\$	38.26	3,396			
Aug-17					,	\$ 47.99	3.6%	22.4%
Oct-17								
Nov-17						\$ 57.74	20.3%	26.0%
Dec-17								
Feb-18		EXELON	\$	116.93	3,302	\$112.30	94.5%	107.7%
Mar-18								
May-18			\$	61.58	*	\$ 67.49	-39.9%	45.7%
Jun-18								
Jul-18	-				*	\$ 65.46	-3.0%	36.4%
Sep-18			\$					
Oct-18         EXELON         \$ 79.61         3,896         Hov-18         EXELON         \$ 96.26         3,379         Dec-18         NEXTERA         \$ 79.40         3,622         \$ 87.93         10.0%         -21.7%           Jan-19         NEXTERA         \$ 88.71         3,584         \$ 76.71         3,425         \$ 76.36         -13.2%         13.2%           Apr-19         NEXTERA         \$ 69.41         3,303         \$ 76.36         -13.2%         13.2%           Apr-19         NEXTERA         \$ 62.95         3,345         \$ 57.16         -25.2%         -12.7%           Jul-19         DYNEGY         \$ 56.38         4,245         \$ 57.16         -25.2%         -12.7%           Jul-19         DYNEGY         \$ 56.38         4,245         \$ 57.16         -25.2%         -12.7%           Jul-19         DYNEGY         \$ 50.98         3,829         \$ 51.49         -9.9%         -35.6%           Oct-19         DYNEGY         \$ 52.27         3,861         \$ 68.36         32.8%         -22.3%           Jan-20         NEXTERA         \$ 76.10         3,586         \$ 68.36         32.8%         -22.3%           Jan-20         NEXTERA         \$ 55.21         3,224	_		-		*	\$ 79.97	22.2%	38.5%
Dec-18   NEXTERA   \$ 79.40   3,622   \$ 87.93   10.0%   -21.7%   Jan-19   NEXTERA   \$ 88.71   3,584	Oct-18		\$	79.61	3,896	Ψ 70.07	22.270	00.070
Jan-19   NEXTERA   \$ 88.71   3,584					*	¢ 07.02	10.00/	24.70/
Feb-19					· ·	φ 01.93	10.0%	-21.770
Apr-19			-		3,414			
May-19					The state of the s	\$ 76.36	-13.2%	13.2%
Jul-19		NEXTERA	\$	62.95				
Aug-19						\$ 57.16	-25.2%	-12.7%
Sep-19								
Nov-19	Sep-19		\$	50.98	3,829	\$ 51.49	-9.9%	-35.6%
Dec-19								
Feb-20	Dec-19	NEXTERA	\$	76.10	3,586	\$ 68.36	32.8%	-22.3%
Mar-20 Apr-20         NEXTERA NEXTERA         \$ 51.14 S55.21         3,478 3,229         \$ 53.96         -21.1%         -29.3%           May-20 Jul-20         NEXTERA HQUS HQUS S45.54         \$ 53.79 4,559         3,244 4,559         \$ 47.14         -12.6%         -17.5%           Aug-20 OL-20         HQUS HQUS HQUS HQUS S53.06         4,678 4,073         \$ 48.62         3.1%         -5.6%           Nov-20 Oct-20         HQUS HQUS HQUS HQUS HQUS HQUS HQUS HQUS								
May-20         NEXTERA Jun-20 HQUS Jul-20         HQUS HQUS SA4.16         4,559 4,995         \$ 47.14         -12.6%         -17.5%           Aug-20 HQUS SEP-20 HQUS SEP-20 HQUS SEP-20 HQUS SEP-20 HQUS SEP-20 HQUS SEP-20 HQUS SEXELON SEP-20 HQUS SEXELON					*	\$ 53.96	-21.1%	-29.3%
Jun-20					,			
Jul-20         HQUS         \$ 45.54         4,995						\$ 47.14	-12.6%	-17.5%
Sep-20 Oct-20         HQUS HQUS         \$ 45.30 4,726 4,073         \$ 48.62         3.1%         -5.6%           Nov-20 Dec-20 EXELON 5 71.52 Jan-21 EXELON 5 75.40 Jan-21 EXELON 5 75.40 Jan-21 EXELON 5 75.40 Jan-21 EXELON 5 75.60 Jan-21 EXELON 5 70.56 Jan-22 Jan-23 Jan-22 Jan-22 Jan-23 Jan-22 Jan-23 Jan-2			\$		4,995	·		
Oct-20         HQUS         \$ 53.06         4,073           Nov-20         HQUS         \$ 50.41         3,690           Dec-20         EXELON         \$ 71.52         4,667         \$ 66.69         37.2%         -2.4%           Jan-21         EXELON         \$ 75.40         4,304         \$ 76.71         15.0%         42.2%           Feb-21         EXELON         \$ 67.56         4,261         \$ 76.71         15.0%         42.2%           Apr-21         EXELON         \$ 55.60         4,294         \$ 76.71         15.0%         42.2%           May-21         EXELON         \$ 52.84         4,622         \$ 58.04         -24.3%         23.1%           Jun-21         EXELON         \$ 61.55         3,997         \$ 58.04         -24.3%         23.1%           Aug-21         EXELON         \$ 74.57         4,622         \$ 74.71         28.7%         53.7%           Sep-21         EXELON         \$ 70.56         4,297         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         N/A         N/A         N/A           Feb-22         NEXTERA         N/A         4,206         N/A         N/A	_				,	\$ 48.62	3.1%	-5.6%
Dec-20	Oct-20	HQUS	\$	53.06	· ·	Ψ 10.02	0.170	0.070
San-21					· ·	¢ 66 60	37 20%	2 404
Mar-21         EXELON         \$ 67.56         4,261         \$ 76.71         15.0%         42.2%           Apr-21         EXELON         \$ 55.60         4,294         \$ 76.71         15.0%         42.2%           May-21         EXELON         \$ 52.84         4,622         \$ 3,997         \$ 58.04         -24.3%         23.1%           Jul-21         EXELON         \$ 60.29         4,449         \$ 74.71         28.7%         53.7%           Aug-21         EXELON         \$ 70.56         4,297         \$ 74.71         28.7%         53.7%           Sep-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Feb-22         NEXTERA         \$ 4,183         \$ 74.27         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71 <td< td=""><td></td><td></td><td></td><td></td><td>*</td><td>\$ 00.09</td><td>37.270</td><td>-2.4 /0</td></td<>					*	\$ 00.09	37.270	-2.4 /0
Apr-21         EXELON         \$ 55.60         4,294         ————————————————————————————————————					,	Φ 70.74	45.00/	40.00/
May-21         EXELON         \$ 52.84         4,622         23.1%           Jun-21         EXELON         \$ 61.55         3,997         \$ 58.04         -24.3%         23.1%           Aug-21         EXELON         \$ 60.29         4,449         \$ 74.57         4,622         \$ 74.71         28.7%         53.7%           Sep-21         EXELON         \$ 70.56         4,297         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Nov-21         EXELON         \$ 79.50         3,856         \$ 74.71         28.7%         53.7%           Feb-22         NEXTERA         \$ 4,183         \$ 74.20         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71         \$ 74.71 <td></td> <td></td> <td></td> <td></td> <td>*</td> <td>\$ 76.71</td> <td>15.0%</td> <td>42.2%</td>					*	\$ 76.71	15.0%	42.2%
Jul-21       EXELON       \$ 60.29       4,449         Aug-21       EXELON       \$ 74.57       4,622         Sep-21       EXELON       \$ 70.56       4,297       \$ 74.71       28.7%       53.7%         Oct-21       EXELON       \$ 79.50       3,856       8.74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       8.74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       8.74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       8.78<	May-21	EXELON	\$	52.84	4,622			
Aug-21       EXELON       \$ 74.57       4,622         Sep-21       EXELON       \$ 70.56       4,297       \$ 74.71       28.7%       53.7%         Oct-21       EXELON       \$ 79.50       3,856       \$ 74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       \$ 74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       \$ 74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       \$ 74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       \$ 74.71       28.7%       53.7%         Nov-21       EXELON       \$ 79.50       3,856       \$ 74.71       28.7%       53.7%         NexTERA       \$ 79.50       3,856       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71       28.7%       \$ 74.71 <t< td=""><td></td><td></td><td></td><td></td><td>·</td><td>\$ 58.04</td><td>-24.3%</td><td>23.1%</td></t<>					·	\$ 58.04	-24.3%	23.1%
Oct-21         EXELON         \$ 79.50         3,856           Nov-21         EXELON		EXELON						
Nov-21         EXELON           Dec-21         NEXTERA           Jan-22         NEXTERA           Feb-22         NEXTERA           Mar-22         NEXTERA           Apr-22         NEXTERA           May-22         NEXTERA           Jun-22         NEXTERA           Jul-22         NEXTERA           Jul-22         NEXTERA           Jul-22         NEXTERA           Sep-22         NEXTERA           N/A         5,293           N/A         N/A					· ·	\$ 74.71	28.7%	53.7%
Dec-21       NEXTERA         Jan-22       NEXTERA         Feb-22       NEXTERA         Mar-22       NEXTERA         Apr-22       NEXTERA         May-22       NEXTERA         Jun-22       NEXTERA         Jul-22       NEXTERA         Aug-22       NEXTERA         Sep-22       NEXTERA         N/A       5,293         N/A       N/A			φ	18.50	3,000			
Feb-22       NEXTERA       4,183         Mar-22       NEXTERA       4,206       N/A       N/A       N/A         Apr-22       NEXTERA       4,247       N/A       N/A       N/A       N/A         May-22       NEXTERA       4,102       N/A		NEXTERA						
Mar-22 Apr-22 NEXTERA Apr-22 NEXTERA         N/A         4,206 Apr-22 NEXTERA         N/A         N/A <td< td=""><td></td><td></td><td></td><td></td><td>4.183</td><td></td><td></td><td></td></td<>					4.183			
Apr-22       NEXTERA       4,247         May-22       NEXTERA       4,102         Jun-22       NEXTERA       N/A         Jul-22       NEXTERA       5,465         Aug-22       NEXTERA       5,785         Sep-22       NEXTERA       N/A         Oct-22       NEXTERA       4,910	Mar-22	NEXTERA		N/A	4,206	N/A	N/A	N/A
Jun-22         NEXTERA         N/A         5,022         N/A         N/A         N/A           Jul-22         NEXTERA         5,465              Aug-22         NEXTERA         5,785              Sep-22         NEXTERA         N/A         5,293         N/A         N/A         N/A           Oct-22         NEXTERA         4,910				, ,				
Jul-22       NEXTERA       5,465         Aug-22       NEXTERA       5,785         Sep-22       NEXTERA       N/A       5,293       N/A       N/A       N/A         Oct-22       NEXTERA       4,910       N/A       N/A       N/A	-			N/A		N/A	N/A	N/A
Sep-22         NEXTERA         N/A         5,293         N/A         N/A         N/A           Oct-22         NEXTERA         4,910					·			
Oct-22 NEXTERA 4,910	_			NI/A		N1/A	N1/A	N1/A
				IN/A	*	IN/A	IN/A	IN/A
				N/A		N/A	N/A	N/A

G1 Legal Estimates for this RFP:

**\$0** 

Note: GIS costs are booked to a common account, not by customer group.

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Historical Pricing Comparison, Non-G1 Customers

									Γ	Non-G1	Non-G1	VA/4 d A v co	Change	Change
	Block A	Block B	Block C	Block D	Block A	Block B	Block C	Block D		Pricing (\$/MWH)	Purchases (MWH)	Wtd Avg Price	Prior Period	Prior Year
Dec-16	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 61.58	(Small)		(Medium)	Ť	\$ 60.91	58,606		1 01104	1001
Jan-17	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 82.33	(Small)	\$ 80.81	(Medium)		\$ 81.57	56,403			
Feb-17 Mar-17	NEXTERA NEXTERA	(Small) (Small)	NEXTERA NEXTERA	(Medium) (Medium)	\$ 82.47 \$ 60.87	(Small) (Small)	\$ 80.38 \$ 58.50	(Medium) (Medium)		\$ 81.43 \$ 59.69	49,520 54,432	\$ 62.83	27.1%	-23.6%
Apr-17	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 46.89	(Small)	\$ 44.17	(Medium)		\$ 45.53	44,403			
Мау-17	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 43.95	(Small)	\$ 41.19	(Medium)		\$ 42.57	45,754			
Jun-17	DEBM	(Small)	TCPM	(Medium)	\$ 67.42	(Small)	\$ 62.12	(Medium)		\$ 64.77	44,437			
Jul-17	DEBM DEBM	(Small)	TCPM	(Medium)	\$ 67.50	(Small)	\$ 67.72	(Medium)		\$ 67.61 \$ 68.03	57,777			
Aug-17 Sep-17	DEBM	(Small) (Small)	TCPM TCPM	(Medium) (Medium)	\$ 69.35 \$ 69.87	(Small) (Small)	\$ 66.71 \$ 65.41	(Medium) (Medium)		\$ 66.03 \$ 67.64	60,381 49,688	\$ 67.69	7.7%	36.9%
Oct-17	DEBM	(Small)	TCPM	(Medium)	\$ 69.06	(Small)	\$ 64.35	(Medium)		\$ 66.71	45,808			
Nov-17	DEBM	(Small)	TCPM	(Medium)	\$ 72.27	(Small)	\$ 70.01	(Medium)	_	\$ 71.14	46,513			
Dec-17	VITOL	(Small)	EXELON	(Medium)	\$ 83.93	(Small)	\$ 87.38	(Medium)		\$ 85.66	62,950			
Jan-18 Feb-18	VITOL VITOL	(Small) (Small)	EXELON EXELON	(Medium) (Medium)	\$107.62 \$109.40	(Small) (Small)	\$120.02 \$ 89.11	(Medium) (Medium)		\$ 113.82 \$ 99.26	63,909 49,814			
Mar-18	VITOL	(Small)	EXELON	(Medium)	\$ 83.28	(Small)		(Medium)		\$ 86.69	52,363	\$ 86.72	28.1%	38.0%
Apr-18	VITOL	(Small)	EXELON	(Medium)	\$ 71.59	(Small)	-	(Medium)		\$ 63.34	46,786			
May-18	VITOL	(Small)	EXELON	(Medium)	\$ 69.01	(Small)		(Medium)	_	\$ 60.57	45,651			
Jun-18 Jul-18	EXELON EXELON	(Small)	NEXTERA NEXTERA	(Medium)	\$ 72.77 \$ 72.12	(Small)	\$ 62.52 \$ 66.11	(Medium)		\$ 67.65 \$ 69.12	51,139			
Aug-18	EXELON	(Small) (Small)	NEXTERA	(Medium) (Medium)	\$ 72.12	(Small) (Small)	\$ 64.79	(Medium) (Medium)		\$ 68.45	56,755 67,382			
Sep-18	EXELON	(Small)	NEXTERA	(Medium)	\$ 76.29	(Small)	\$ 68.20	(Medium)		\$ 72.25	55,483	\$ 71.41	-17.7%	5.5%
Oct-18	EXELON	(Small)	NEXTERA	(Medium)	\$ 79.93	(Small)	\$ 68.76	(Medium)		\$ 74.35	52,395			
Nov-18	EXELON	(Small)	NEXTERA	(Medium)	\$ 81.23	(Small)	\$ 74.61	(Medium)	_	\$ 77.92	49,433			
Dec-18 Jan-19	NEXTERA NEXTERA	(Small) (Small)	NEXTERA NEXTERA	(Medium) (Medium)	\$127.54 \$122.53	(Small) (Small)	-	(Medium) (Medium)		\$ 114.11 \$ 124.69	56,898 66,712			
Feb-19	NEXTERA	(Small)	NEXTERA	(Medium)	\$112.15	(Small)	\$120.65	(Medium)		\$ 124.09	59,779			
Mar-19	NEXTERA	(Small)	NEXTERA	(Medium)	\$112.76	(Small)	\$ 88.83	(Medium)		\$ 100.80	53,969	\$ 104.16	45.9%	20.1%
Apr-19	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 74.10	(Small)	\$ 72.84	(Medium)		\$ 73.47	50,767			
May-19	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 92.89	(Small)	\$ 67.08	(Medium)	_	\$ 79.99	46,986			
Jun-19 Jul-19	EXELON EXELON	(Small) (Small)	NEXTERA NEXTERA	(Medium)	\$ 75.00 \$ 78.96	(Small)		(Medium) (Medium)		\$ 69.40 \$ 77.10	46,681 62,361			
Aug-19	EXELON	(Small)	NEXTERA	(Medium)	\$ 65.50	(Small)		(Medium)		\$ 64.46	67,002	Φ 00.00	00.00/	0.40/
Sep-19	EXELON	(Small)	NEXTERA	(Medium)	\$ 69.66	(Small)		(Medium)		\$ 67.26	52,879	\$ 68.99	-33.8%	-3.4%
Oct-19	EXELON	(Small)	NEXTERA	(Medium)	\$ 69.61	(Small)		(Medium)		\$ 59.23	54,993			
Nov-19 Dec-19	EXELON NEXTERA	(Small) (Small)	NEXTERA NEXTERA	(Medium) (Medium)	\$ 80.32 \$114.30	(Small) (Small)		(Medium) (Medium)	_	\$ 77.49 \$ 109.56	48,082 55,151			
Jan-20	NEXTERA	(Small)	NEXTERA	(Medium)	\$106.82	(Small)	-	(Medium)		\$ 109.30	64,846			
Feb-20	NEXTERA	(Small)	NEXTERA	(Medium)	\$107.17	(Small)		(Medium)		\$ 105.00	61,007	\$ 88.55	28.3%	-15.0%
Mar-20	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 91.94	(Small)	\$ 72.50	(Medium)		\$ 82.22	54,444	φ 66.55	20.370	-15.0%
Apr-20	NEXTERA NEXTERA	(Small)	NEXTERA NEXTERA	(Medium)	\$ 60.41 \$ 73.62	(Small) (Small)	\$ 47.11 \$ 57.29	(Medium) (Medium)		\$ 53.76 \$ 65.46	50,230 46,070			
May-20 Jun-20	NEXTERA	(Small) (Small)	EXELON	(Medium) (Medium)	\$ 54.13	(Small)	\$ 40.76	(Medium)	_	\$ 47.45	52,981			
Jul-20	NEXTERA	(Small)	EXELON	(Medium)	\$ 51.78	(Small)		(Medium)		\$ 48.63	65,465			
Aug-20	NEXTERA	(Small)	EXELON	(Medium)	\$ 51.71	(Small)		(Medium)		\$ 47.78	61,604	\$ 50.42	-43.1%	-26.9%
Sep-20	NEXTERA	(Small)	EXELON	(Medium)	\$ 56.11	(Small)		(Medium)		\$ 49.82	56,863	Ψ 00.42	40.170	20.070
Oct-20 Nov-20	NEXTERA NEXTERA	(Small) (Small)	EXELON EXELON	(Medium) (Medium)	\$ 58.43 \$ 64.21	(Small) (Small)		(Medium) (Medium)		\$ 51.43 \$ 59.18	48,292 48,417			
Dec-20	NEXTERA	(Small)	EXELON	(Medium)	\$ 75.09	(Small)	\$ 74.45	(Medium)	_	\$ 74.77	62,281			
Jan-21	NEXTERA	(Small)	EXELON	(Medium)	\$ 89.89	(Small)	\$ 86.56	(Medium)		\$ 88.23	62,839			
Feb-21	NEXTERA	(Small)	EXELON	(Medium)	\$ 91.45	(Small)	\$ 85.85	(Medium)		\$ 88.65	62,244	\$ 74.41	47.6%	-16.0%
Mar-21 Apr-21	NEXTERA NEXTERA	(Small)	EXELON EXELON	(Medium) (Medium)	\$ 72.31 \$ 65.17	(Small) (Small)	\$ 67.29 \$ 57.71	(Medium) (Medium)		\$ 69.80 \$ 61.44	54,524 51,458			
Apr-21 May-21	NEXTERA NEXTERA	(Small) (Small)	EXELON	(Medium)	\$ 59.83	(Small)	-	` ,		\$ 56.33	47,389			
Jun-21	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 58.92	(Small)	\$ 46.27	(Medium)	_	\$ 52.60	50,816			
Jul-21	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 77.12	(Small)		(Medium)		\$ 68.76	56,487			
Aug-21	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 51.70	(Small)		(Medium)		\$ 49.83	67,064	\$ 54.90	-26.2%	8.9%
Sep-21 Oct-21	NEXTERA NEXTERA	(Small) (Small)	NEXTERA NEXTERA	(Medium) (Medium)	\$ 35.89 \$ 65.18	(Small) (Small)		(Medium) (Medium)		\$ 35.22 \$ 56.57	60,128 45,181			
Nov-21	NEXTERA	(Small)	NEXTERA	(Medium)	\$ 79.00	(Small)		,		\$ 71.40	47,466			
Dec-21	NEXTERA	(Small)	NEXTERA	(Medium)		(Small)		(Medium)			59,483			
Jan-22	NEXTERA	(Small)	NEXTERA	(Medium)		(Small)		(Medium)			61,901			
Feb-22 Mar-22	NEXTERA NEXTERA	(Small) (Small)	NEXTERA NEXTERA	(Medium) (Medium)		(Small) (Small)		(Medium) (Medium)			59,300 54,283			
Apr-22	NEXTERA	(Small)	NEXTERA	(Medium)		(Small)		(Medium)			54,263 51,132			
May-22	NEXTERA	(Small)	NEXTERA	(Medium)		(Small)		(Medium)			45,865			
Jun-22	HQUS	(Small)	HQUS	(Medium)		(Small)		(Medium)			50,014			
Jul-22	HQUS	(Small)	HQUS	(Medium)		(Small)		(Medium)			62,434			
Aug-22 Sep-22	HQUS HQUS	(Small) (Small)	HQUS HQUS	(Medium) (Medium)		(Small) (Small)		(Medium) (Medium)			70,399 56,477			
Oct-22	HQUS	(Small)	HQUS	(Medium)		(Small)		(Medium)			47,477			
Nov-22	HQUS	(Small)	HQUS	(Medium)		(Small)		(Medium)			51,110			

Non-G1 Legal Estimates for this RFP:

**\$**0

Note: GIS costs are booked to a common account, not by customer group.

# Tab A(3). UES RECs Procurement Summary

The third item attached to this Comparison of Bids is a summary of REC purchases for the 2022 compliance year. This table details the Class of RECs purchased, the quantity purchased, the cost per REC, and the transaction date. The table also describes if the purchase was made through the REC RFP process or if the RECs were acquired independent of the REC RFP process.

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Summary of REC Purchases for 2022 RPS Compliance

	Transaction	Process	Vintage	Cla	ss I	Class 1	Thermal	Clas	ss II	Clas	s III	Clas	s IV	
$\perp$	Date	Trocess	vintage	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	
	Purchase	Summary	2022											
٠		•												_
[	Estimated R	equirements	2022											
	Percentage	Purchased <sup>1</sup>	2022											
	<u> </u>			•		•	•			•			•	_

## Notes:

1. Percentage Purchased **excludes** banked RECs from prior years and Class I and Class II Net Metering Credits. Purchased RECs have been contracted for but may not yet have been transferred to the Company's GIS subaccount.

## Tab A(4). Comparisons to NYMEX Futures

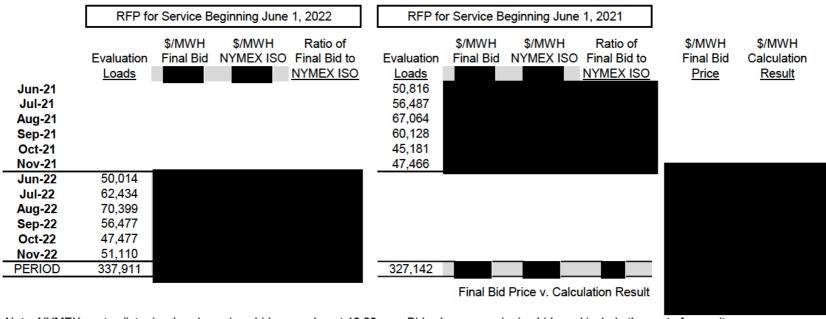
The fourth item attached to this Comparison of Bids compares the winning final bids to both the NYMEX over-the-counter futures contracts for ISO New England averaged on-and-off peak electric futures ("NYMEX ISO") and the NYMEX natural gas futures contracts at Henry Hub ("NYMEX NG"). These tables generally show the proportion of the bid price that is associated with energy, typically the largest driver of wholesale costs, as opposed to other non-energy costs embedded in a bid price such as capacity and ancillary services. Lower bid to NYMEX ratios can be associated with a price for which energy comprises a greater component; conversely, higher bid to NYMEX ratios indicate the price is comprised of an increasing proportion of non-energy components.

The ratio of winning bid prices to the two NYMEX contracts was calculated for the upcoming default service procurement period and is compared to prior procurement periods (December 1, 2021 – May 31, 2022 and June 1, 2021 – November 30, 2021).

Hypothetical prices were then calculated by applying the current NYMEX pricing to the ratio of winning bid prices to NYMEX prices observed in previous procurements. These are what the prices would have been if the final bid price to NYMEX ratio was the same as the prior period to which it is being compared. A comparison was then made between the current winning bid prices and the hypothetical prices. Results of the comparison show that the current ratio of final bid prices to NYMEX ISO is than the ratio of final bid prices to NYMEX ISO during the same 6-month period a year ago, and is than the ratio for the prior 6-month period of December 2021 to May 2022.

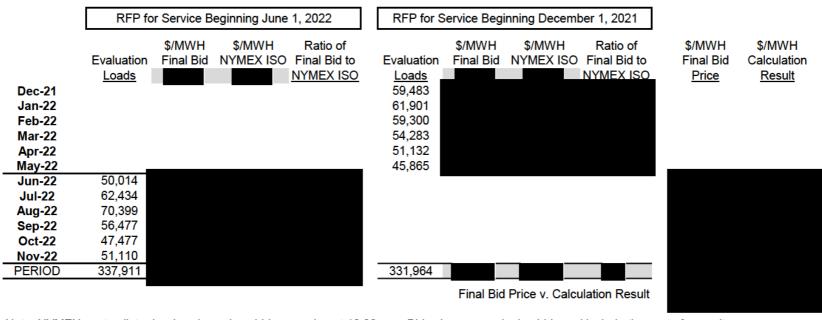
For natural gas, the comparison shows that current ratio of final bid prices to NYMEX NG is than the ratio of final bid prices during the same 6-month period a year ago, and than the ratio for the prior 6-month period of December 2021 to May 2022.

UES 6-Month Non-G1 Customer Default Service Bids versus NYMEX OTC New England On-Peak Electric Futures (ISO)



Note: NYMEX quotes list prior day close since bids were due at 10:00 am. Bids shown are winning bids and include the cost of capacity.

UES 6-Month Non-G1 Customer Default Service Bids versus NYMEX OTC New England On-Peak Electric Futures (ISO)

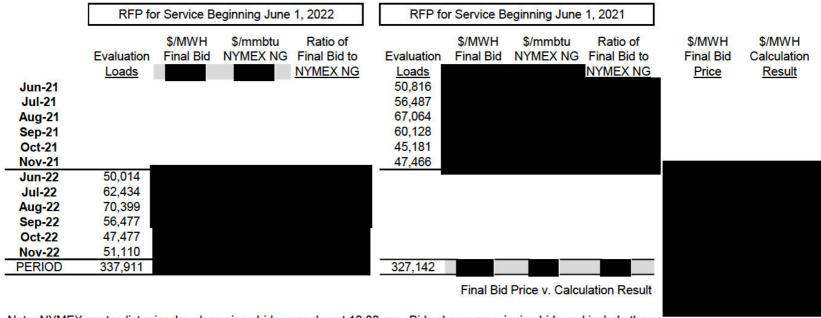


Note: NYMEX quotes list prior day close since bids were due at 10:00 am. Bids shown are winning bids and include the cost of capacity.

Redacted

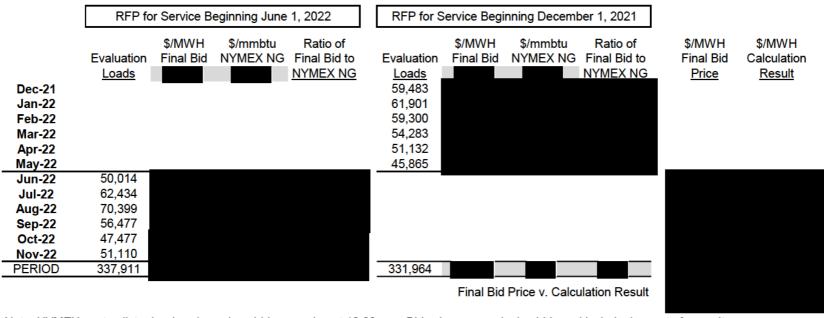
Docket No. DE 22-017 Exhibit 2

UES 6-Month Non-G1 Customer Default Service Bids versus NYMEX OTC Natural Gas (NG) Henry Hub Futures



Note: NYMEX quotes list prior day close since bids were due at 10:00 am. Bids shown are winning bids and include the co

UES 6-Month Non-G1 Customer Default Service Bids versus NYMEX OTC Natural Gas (NG) Henry Hub Futures



Note: NYMEX quotes list prior day close since bids were due at 10:00 am. Bids shown are winning bids and include the cost of capacity.

Redacted

# Tab A(5). Financial Security Requirements

The fifth item attached to this Comparison of Bids contains a summary of each bidder's financial security requirements of UES and each bidder's own provision of financial security and creditworthiness. Items listed include the amount of Shareholder Equity (if any) to be used as a credit test for UES, payment terms and estimated interest costs associated with accelerated payments for each service bid, agreed upon corporate guaranty amounts, credit ratings for suppliers or their parent companies and other credit support as may be required.

Also attached are sheets that describe the credit rating definitions used by Standard & Poor's and by Moody's.

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 Summary of Financial Security Requirements

## Financial Security provided by Seller

Pay assoc. in	ment Te terest co		)	Ur	nitil Guara	nty	Other Credit	Other Credit Rated Support Entity		lier Debt R	atings	Guaranty	Support		Other Credit
 Terms	Small	Med	Large	Small	Med	Large	Support			Moody	Fitch	Small	Med	Large	Support

Note1: For suppliers requiring bi-monthly (BI-MO) or net 20 (M20) payment, the value shown represents the incremental borrowing costs compared to end of month following service payments (M30).

Note2: Creditworthiness of all Suppliers contingent upon Investment Grade Status of Rated Entity.

Note3: "No Material Impairment" means a party is creditworthy so long as the other party does not have a reasonable belief it has become materially impaired.

# **Standard & Poor's Ratings Definitions Long-Term Issue Credit Ratings**

Issue credit ratings are based, in varying degrees, on S&P Global Ratings' analysis of the following considerations:

- The likelihood of payment--the capacity and willingness of the obligor to meet its financial commitments on an obligation in accordance with the terms of the obligation;
- The nature and provisions of the financial obligation, and the promise we impute; and
- The protection afforded by, and relative position of, the financial obligation in the event of a bankruptcy, reorganization, or other arrangement under the laws of bankruptcy and other laws affecting creditors' rights.

Issue ratings are an assessment of default risk but may incorporate an assessment of relative seniority or ultimate recovery in the event of default. Junior obligations are typically rated lower than senior obligations, to reflect the lower priority in bankruptcy, as noted above. (Such differentiation may apply when an entity has both senior and subordinated obligations, secured and unsecured obligations, or operating company and holding company obligations.)

	Long-Term Issue Credit Ratings*						
Category	Definition						
AAA	An obligation rated 'AAA' has the highest rating assigned by S&P Global Ratings.						
The obligor's capacity to meet its financial commitments on the oblig- extremely strong.							
AA	An obligation rated 'AA' differs from the highest-rated obligations only to a small						
	degree. The obligor's capacity to meet its financial commitments on the obligation is very strong.						
Α	An obligation rated 'A' is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations in higher-						
	rated categories. However, the obligor's capacity to meet its financial						
	commitments on the obligation is still strong.						
BBB	An obligation rated 'BBB' exhibits adequate protection parameters. However,						
	adverse economic conditions or changing circumstances are more likely to						
	weaken the obligor's capacity to meet its financial commitments on the obligation.						
BB, B, CCC,	Obligations rated 'BB', 'B', 'CCC', 'CC', and 'C' are regarded as having significant						
CC, and C	speculative characteristics. 'BB' indicates the least degree of speculation and 'C'						
	the highest. While such obligations will likely have some quality and protective characteristics, these may be outweighed by large uncertainties or major						
	exposure to adverse conditions.						
BB	An obligation rated 'BB' is less vulnerable to nonpayment than other speculative						
	issues. However, it faces major ongoing uncertainties or exposure to adverse						
	business, financial, or economic conditions that could lead to the obligor's inadequate capacity to meet its financial commitments on the obligation.						
В	An obligation rated 'B' is more vulnerable to nonpayment than obligations rated						
	'BB', but the obligor currently has the capacity to meet its financial commitments						
	on the obligation. Adverse business, financial, or economic conditions will likely						
	impair the obligor's capacity or willingness to meet its financial commitments on						
	the obligation.						

CCC	An obligation rated 'CCC' is currently vulnerable to nonpayment and is dependent upon favorable business, financial, and economic conditions for the obligor to meet its financial commitments on the obligation. In the event of adverse business, financial, or economic conditions, the obligor is not likely to have the capacity to meet its financial commitments on the obligation.
CC	An obligation rated 'CC' is currently highly vulnerable to nonpayment. The 'CC' rating is used when a default has not yet occurred but S&P Global Ratings expects default to be a virtual certainty, regardless of the anticipated time to default.
С	An obligation rated 'C' is currently highly vulnerable to nonpayment, and the obligation is expected to have lower relative seniority or lower ultimate recovery compared with obligations that are rated higher.
D	An obligation rated 'D' is in default or in breach of an imputed promise. For non-hybrid capital instruments, the 'D' rating category is used when payments on an obligation are not made on the date due, unless S&P Global Ratings believes that such payments will be made within five business days in the absence of a stated grace period or within the earlier of the stated grace period or 30 calendar days. The 'D' rating also will be used upon the filing of a bankruptcy petition or the taking of similar action and where default on an obligation is a virtual certainty, for example due to automatic stay provisions. An obligation's rating is lowered to 'D' if it is subject to a distressed exchange offer.
NR	This indicates that no rating has been requested, or that there is insufficient information on which to base a rating, or that S&P Global Ratings does not rate a particular obligation as a matter of policy.
	from 'AA' to 'CCC' may be modified by the addition of a plus (+) or minus (-) sign to e standing within the major rating categories.

Source: Use the following link. Select "Ratings Definitions" under the **Regulatory** category. Ratings were updated June 26, 2017.

http://www.standardandpoors.com/en\_US/web/guest/home?pagename=sp/Page/FixedIncomeR atingsCriteriaPg&r=1&l=EN&b=2

# **Moody's Long-Term Rating Definitions Long-Term Obligation Ratings**

Moody's long-term obligation ratings are opinions of the relative credit risk of fixed-income obligations with an original maturity of one year or more. They address the possibility that a financial obligation will not be honored as promised. Such ratings reflect both the likelihood of default and any financial loss suffered in the event of default.

Aaa	Obligations rated Aaa are judged to be of the highest quality, with minimal credit risk.
Aa	Obligations rated Aa are judged to be of high quality and are subject to very low credit risk.
Α	Obligations rated A are considered upper-medium grade and are subject to low credit risk.
Baa	Obligations rated Baa are subject to moderate credit risk. They are considered medium-grade and as such may possess certain speculative characteristics.
Ва	Obligations rated Ba are judged to have speculative elements and are subject to substantial credit risk.
В	Obligations rated B are considered speculative and are subject to high credit risk.
Caa	Obligations rated Caa are judged to be of poor standing and are subject to very high credit risk.
Са	Obligations rated Ca are highly speculative and are likely in, or very near, default, with some prospect of recovery of principal and interest.
С	Obligations rated C are the lowest rated class of bonds and are typically in default, with little prospect for recovery of principal or interest.

**Note:** Moody's appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa. The modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category.

Source: After registering on Moody's website and agreeing to their Terms of Use, use the following link:

 $\frac{http://www.moodys.com/moodys/cust/AboutMoodys/AboutMoodys.aspx?topic=rdef\&subtopic=moodys\%20credit\%20}{ratings\&title=Long+Term+Obligation+Ratings.htm}$ 

# Tab A(6). Proposal Submission Forms

The sixth item attached to this Comparison of Bids contains the non-price information provided by each bidder upon submission of the proposal submission form, which is identified as Attachment A to the RFP.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

#### APPENDIX A: PROPOSAL SUBMISSION FORM

#### 1. General Information

Name of Respondent Name of Parent or Guarantor (if any) Principal contact person < Name < Title < Company < Mailing address < Telephone number (office) < Telephone number (cell) < Fax number < E-mail address Secondary contact person (if any) < Name < Title < Company < Mailing address < Telephone number (office) < Telephone number (cell) < Fax number < E-mail address Legal form of business organization of Respondent (e.g., sole proprietorship, partnership, limited partnership, joint venture, or corporation) State(s) of incorporation, residency or organization Indicate whether Respondent is in good standing in all states in which Respondent is authorized to do business and, if not, which states and the reason it is not.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

If Respondent is a partnership, the names of all general and limited partners.

If Respondent is a limited liability company, the names of all direct owners.

Description of Respondent and all affiliated entities and joint ventures transacting business in the energy sector.

## 2. Financial Information

Please provide the following for Respondent and/or Parent/Guarantor (as appropriate)	Respondent	Parent/Guarantor
Current debt ratings, including names of rating agencies and dates of ratings. If entity is not rated, please indicate.		

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

Date last fiscal year ended.

Total revenue for the most recent fiscal year.

Total net income for the most recent fiscal year.

Total assets as of the close of the previous fiscal year.

DUNS Number and Federal Tax ID.

Please provide a copy of the most recent financials including balance sheet, income statement and cash flow statement.

#### 3. Defaults and Adverse Situations

Describe, in detail, any situation in which Respondent (either alone or as part of a joint venture), or an affiliate of Respondent, defaulted or was deemed to be in noncompliance of its contractual obligations to deliver energy and/or capacity at wholesale within the past five years.

Explain the situation, its outcome and all other relevant facts associated with the event described.

Identify the name, title and telephone number of the principal manager of the customer/client who asserted the event of default or noncompliance.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

Has Respondent, or any affiliate of Respondent, in the last five years, (a) consented to the appointment of, or was taken in possession by, a receiver, trustee, custodian or liquidator of a substantial part of its assets, (b) filed a bankruptcy petition in any bankruptcy court proceeding, (c) answered, consented or sought relief under any bankruptcy or similar law or failed to obtain a dismissal of an involuntary petition, (d) admitted in writing of its inability to pay its debts when due, (e) made a general assignment for the benefit of creditors, (f) was the subject of an involuntary proceeding seeking to adjudicate that Party bankrupt or insolvent, (g) sought reorganization, arrangement, adjustment, or composition of it or its debt under any law relating to bankruptcy, insolvency or reorganization or relief of debtors.

Describe any facts presently known to Respondent that might adversely affect its ability to provide the service(s) bid herein as provided for in the Request for Proposals.

#### 4. NEPOOL and Power Supply Experience

Is Respondent a member of NEPOOL?

Please list Respondent's NEPOOL Participant ID.

If Respondent is NOT a NEPOOL member, list the name and Participant ID of the NEPOOL member who will carry Respondent's obligations in its settlement account. Please provide a supporting statement and contact information from such member.

Please describe Respondent's experience and record of performance in the areas of power marketing, brokering, sales, and/or contracting, for the last five years within NEPOOL and/or the New England region.

Redacted

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

Has Respondent previously provided Default Service to UES?

If response is "NO", please provide references as requested below.

Please provide three references (name, title and contact information) who have contracted with the Respondent for load-following services or who can attest to Respondent's ability in the areas of power supply portfolio management within the past 2 years.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

#### 5. Non Price Terms

Does Respondent extend sufficient financial credit to UES to facilitate the transactions sought via this RFP?

Please indicate what, if any, financial security requirements Respondent has of UES in order to secure the extension of credit. Please attach any proposed contractual language.

Does Respondent agree that the obligations of both parties are subject to and conditioned upon the NHPUC's approval of the retail rates derived from the transaction sought in this solicitation?

Please list all regulatory approvals required before service can commence.

Is Respondent willing to enter into contractual terms substantially as proposed in the Power Supply Agreement contained in Appendix B?

Provide any proposed modifications to the Power Supply Agreement provided in Appendix B or to the PSA Amendment in Appendix B1.

Please briefly list issues here and provide proposed language changes in the document using the "track changes" feature of Microsoft Word, or other reviewable revision marking process.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022



# APPENDIX A: PROPOSAL SUBMISSION FORM

# 1. General Information

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022



If Respondent is a partnership, the names of all general and limited partners.

If Respondent is a limited liability company, the names of all direct owners.

Description of Respondent and all affiliated entities and joint ventures transacting busines in the energy sector.

## 2. Financial Information

Please provide the following for Respondent and/or Parent/Guarantor (as appropriate)	Respondent	Parent/Guarantor
Current debt ratings, including names of rating agencies and dates of ratings. If entit is not rated, please indicate.		
Date last fiscal year ended.		

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

Total net income for the most recent fiscal year.

Total assets as of the close of the previous fiscal year.

DUNS Number and Federal Tax ID.

Please provide a copy of the most recent financials including balance sheet, income statement and cash flow statement.

#### 3. Defaults and Adverse Situations

Describe, in detail, any situation in which Respondent (either alone or as part of a joint venture), or an affiliate of Respondent, defaulted or was deemed to be in noncompliance of its contractual obligations to deliver energy and/or capacity at wholesale within the past five years.

Explain the situation, its outcome and all other relevant facts associated with the event described.

Identify the name, title and telephone number of the principal manager of the customer/client who asserted the event of default or noncompliance.

Has Respondent, or any affiliate of Respondent, in the last five years, (a) consented to the appointment of, or was taken in possession by, a receiver, trustee, custodian or liquidator of a substantial part of its assets,

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT: \_

(b) filed a bankruptcy petition in any bankruptcy court proceeding, (c) answered, consented or sought relief under any bankruptcy or similar law or failed to obtain a dismissal of an involuntary petition, (d) admitted in writing of its inability to pay its debts when due, (e) made a general assignment for the benefit of creditors, (f) was the subject of an involuntary proceeding seeking to adjudicate that Party bankrupt or insolvent, (g) sought reorganization, arrangement, adjustment, or composition of it or its debt under any law relating to bankruptcy, insolvency or reorganization or relief of debtors.

Describe any facts presently known to Respondent that might adversely affect its ability to provide the service(s) bid herein as provided for in the Request for Proposals.

## 4. NEPOOL and Power Supply Experience

Is Respondent a member of NEPOOL?

Please list Respondent's NEPOOL Participant ID

If Respondent is NOT a NEPOOL member, list the name and Participant ID of the NEPOOL member who will carry Respondent's obligations in its settlement account. Please provide a supporting statement and contact information from such member.

Please describe Respondent's experience and record of performance in the areas of power marketing, brokering, sales, and/or contracting, for the last five years within NEPOOL and/or the New England region.

Has Respondent previously provided Default Service to UES?

Docket No. DE 22-017 Exhibit 2 Redacted

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:	
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If response is "NO", please provide references as requested below.

Please provide three references (name, title and contact information) who have contracted with the Respondent for load-following services or who can attest to Respondent's ability in the areas of power supply portfolio management within the past 2 years.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

#### 5. Non Price Terms

Does Respondent extend sufficient financial credit to UES to facilitate the transactions sought via this RFP?

Please indicate what, if any, financial security requirements Respondent has of UES in order to secure the extension of credit. Please attach any proposed contractual language.

Does Respondent agree that the obligations of both parties are subject to and conditioned upon the NHPUC's approval of the retail rates derived from the transaction sought in this solicitation?

Please list all regulatory approvals required before service can commence.

Is Respondent willing to enter into contractual terms substantially as proposed in the Power Supply Agreement contained in Appendix B?

Provide any proposed modifications to the Power Supply Agreement provided in Appendix B or to the PSA Amendment in Appendix B1.

Please briefly list issues here and provide proposed language changes in the document using the "track changes" feature of Microsoft Word, or other reviewable revision marking process.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

#### APPENDIX A: PROPOSAL SUBMISSION FORM

## 1. General Information

Name of Respondent

Name of Parent or Guarantor (if any)

Principal contact person

- < Name
- < Title
- < Company
- < Mailing address
- < Telephone number (office)
- < Telephone number (cell)
- < Fax number
- < E-mail address

Secondary contact person (if any)

- < Name
- < Title
- < Company
- < Mailing address
- < Telephone number (office)
- < Telephone number (cell)
- < Fax number
- < E-mail address

Legal form of business organization of Respondent (e.g., sole proprietorship, partnership, limited partnership, joint venture, or corporation)

State(s) of incorporation, residency or organization

Indicate whether Respondent is in good standing in all states in which Respondent is authorized to do business and, if not, which states and the reason it is not.

If Respondent is a partnership, the names of all general and limited partners.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

If Respondent is a limited liability company, the names of all direct owners.

Description of Respondent and all affiliated entities and joint ventures transacting business in the energy sector.

## 2. Financial Information

Please provide the following for Respondent and/or Parent/Guarantor (as appropriate)	Respondent	Parent/Guarantor
Current debt ratings, including names of rating agencies and dates of ratings. If entity is not rated, please indicate.		
Date last fiscal year ended.		
Total revenue for the most recent fiscal year.		
Total net income for the most recent fiscal year.		
Total assets as of the close of the previous fiscal year.		
DUNS Number and Federal Tax ID.		
Please provide a copy of the most recent financials including balance sheet, income statement and cash flow statement.		

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

#### 3. Defaults and Adverse Situations

Describe, in detail, any situation in which Respondent (either alone or as part of a joint venture), or an affiliate of Respondent, defaulted or was deemed to be in noncompliance of its contractual obligations to deliver energy and/or capacity at wholesale within the past five years.

Explain the situation, its outcome and all other relevant facts associated with the event described.

Identify the name, title and telephone number of the principal manager of the customer/client who asserted the event of default or noncompliance.

Has Respondent, or any affiliate of Respondent, in the last five years, (a) consented to the appointment of, or was taken in possession by, a receiver, trustee, custodian or liquidator of a substantial part of its assets, (b) filed a bankruptcy petition in any bankruptcy court proceeding, (c) answered, consented or sought relief under any bankruptcy or similar law or failed to obtain a dismissal of an involuntary petition, (d) admitted in writing of its inability to pay its debts when due, (e) made a general assignment for the benefit of creditors, (f) was the subject of an involuntary proceeding seeking to adjudicate that Party bankrupt or insolvent, (g) sought reorganization, arrangement, adjustment, or composition of it or its debt under any law relating to bankruptcy, insolvency or reorganization or relief of debtors.

Describe any facts presently known to Respondent that might adversely affect its ability to provide the service(s) bid herein as provided for in the Request for Proposals.

#### 4. NEPOOL and Power Supply Experience

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

Is Respondent a member of NEPOOL?

Please list Respondent's NEPOOL Participant ID.

If Respondent is NOT a NEPOOL member, list the name and Participant ID of the NEPOOL member who will carry Respondent's obligations in its settlement account. Please provide a supporting statement and contact information from such member.

Please describe Respondent's experience and record of performance in the areas of power marketing, brokering, sales, and/or contracting, for the last five years within NEPOOL and/or the New England region.

Has Respondent previously provided Default Service to UES?

If response is "NO", please provide references as requested below.

\_\_\_\_\_

Please provide three references (name, title and contact information) who have contracted with the Respondent for load-following services or who can attest to Respondent's ability in the areas of power supply portfolio management within the past 2 years.

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

RESPONDENT:

#### 5. Non Price Terms

Does Respondent extend sufficient financial credit to UES to facilitate the transactions sought via this RFP?

Please indicate what, if any, financial security requirements Respondent has of UES in order to secure the extension of credit. Please attach any proposed contractual language.

Does Respondent agree that the obligations of both parties are subject to and conditioned upon the NHPUC's approval of the retail rate derived from the transaction sought in this solicitation?

Please list all regulatory approvals required before service can commence.

Is Respondent willing to enter into contractua terms substantially as proposed in the Power Supply Agreement contained in Appendix B?

Provide any proposed modifications to the Power Supply Agreement provided in Appendix B or to the PSA Amendment in Appendix B1.

Please briefly list issues here and provide proposed language changes in the document using the "track changes" feature of Microsof Word, or other reviewable revision marking process.



## APPENDIX A: PROPOSAL SUBMISSION FORM

## 1. General Information

Name of Respondent
Name of Parent or Guarantor (if any)
Principal contact person
< Name < Title < Company < Mailing address < Telephone number (office) < Telephone number (cell) < Fax number < E-mail address
Secondary contact person (if any)  < Name  < Title  < Company  < Mailing address  < Telephone number (office)  < Telephone number (cell)  < Fax number  < E-mail address
Legal form of business organization of Respondent (e.g., sole proprietorship, partnership, limited partnership, joint venture, or corporation)
State(s) of incorporation, residency or organization
Indicate whether Respondent is in good standing in all states in which Respondent is authorized to do business and, if not, which states and the reason it is not.

RESPONDENT:

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022

If Respondent is a partnership, the names of all general and limited partners.

If Respondent is a limited liability company, the names of all direct owners.

Description of Respondent and all affiliated entities and joint ventures transacting busines in the energy sector.

## 2. Financial Information

Please provide the following for Respondent and/or Parent/Guarantor (as appropriate)	Respondent	Parent/Guarantor	
Current debt ratings, including names of rating agencies and dates of ratings. If entity is not rated, please indicate.			
Date last fiscal year ended.			
Total revenue for the most recent fiscal year.			
Total net income for the most recent fiscal year.			
Total assets as of the close of the previous fiscal year.			
DUNS Number and Federal Tax ID.			
Please provide a copy of the most recent financials including balance sheet, income statement and cash flow statement.			



#### 3. Defaults and Adverse Situations

Describe, in detail, any situation in which Respondent (either alone or as part of a joint venture), or an affiliate of Respondent, defaulted or was deemed to be in noncompliance of its contractual obligations to deliver energy and/or capacity at wholesale within the past five years.

Explain the situation, its outcome and all other relevant facts associated with the event described.

Identify the name, title and telephone number of the principal manager of the customer/client who asserted the event of default or noncompliance.

Docket No. DE 22-017 Exhibit 2 Redacted

UES Default Service RFP Proposal Submission Form Due: Tuesday, March 8, 2022



Has Respondent, or any affiliate of Respondent, in the last five years, (a) consented to the appointment of, or was taken in possession by, a receiver, trustee, custodian or liquidator of a substantial part of its assets, (b) filed a bankruptcy petition in any bankruptcy court proceeding, (c) answered, consented or sought relief under any bankruptcy or similar law or failed to obtain a dismissal of an involuntary petition, (d) admitted in writing of its inability to pay its debts when due, (e) made a general assignment for the benefit of creditors, (f) was the subject of an involuntary proceeding seeking to adjudicate that Party bankrupt or insolvent, (g) sought reorganization, arrangement, adjustment, or composition of it or its debt under any law relating to bankruptcy, insolvency or reorganization or relief of debtors.

## 4. NEPOOL and Power Supply Experience

Is Respondent a member of NEPOOL?

Describe any facts presently known to Respondent that might adversely affect its ability to provide the service(s) bid herein as provided for in the Request for Proposals.

Please list Respondent's NEPOOL Participant ID.

Docket No. DE 22-017
Exhibit 2
Redacted
Foult Service PED

RESPONDENT:

UES Default Service RFP
Proposal Submission Form
Due: Tuesday, March 8, 2022

If Respondent is NOT a NEPOOL member, list the name and Participant ID of the NEPOOL member who will carry Respondent's obligations in its settlement account. Please provide a supporting statement and contact information from such member.

Please describe Respondent's experience and record of performance in the areas of power marketing, brokering, sales, and/or contracting, for the last five years within NEPOOL and/or the New England region.

Has Respondent previously provided Default Service to UES?

If response is "NO", please provide references as requested below.

Please provide three references (name, title and contact information) who have contracted with the Respondent for load-following services or who can attest to Respondent's ability in the areas of power supply portfolio management within the past 2 years.

Due: Tuesday, March 8, 2022



#### 5. Non Price Terms

Does Respondent extend sufficient financial credit to UES to facilitate the transactions sought via this RFP?

Please indicate what, if any, financial security requirements Respondent has of UES in order to secure the extension of credit. Please attach any proposed contractual language.

Does Respondent agree that the obligations of both parties are subject to and conditioned upon the NHPUC's approval of the retail rates derived from the transaction sought in this solicitation?

Please list all regulatory approvals required before service can commence.

Is Respondent willing to enter into contractual terms substantially as proposed in the Power Supply Agreement contained in Appendix B?

Provide any proposed modifications to the Power Supply Agreement provided in Appendix B or to the PSA Amendment in Appendix B1.

Please briefly list issues here and provide proposed language changes in the document using the "track changes" feature of Microsoft Word, or other reviewable revision marking process.

## Tab A(7). RFP Contact List

The seventh item attached to this Comparison of Bids contains the contact list used by UES during the RFP process. The contact list includes one contact from each entity, a summary of UES's communications with each supplier and UES's expectations with regard to each supplier's intention to bid prior to receipt of indicative bids. Contacts are identified as suppliers, brokers, other LDCs or consultants.

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 **RFP Contacts List** 



Party	No.	Contact Name	Company	Contact Type	Communic.	Initital Expectation	

## Tab A(8). Redlined Power Supply Agreements

The eighth and final item attached to this Comparison of Bids contains the redline version of the Amendment and PSA with NextEra and HQUS.

Date: March 23, 2022

#### POWER SUPPLY AGREEMENT

This POWER SUPPLY AGREEMENT ("Agreement") is dated as of April 1 March 23 2020 2022 and is by and between UNITIL ENERGY SYSTEMS, INC. ("UES" or "Buyer"), a New Hampshire corporation, and H.Q. ENERGY SERVICES (U.S.) INC. ("HQUS" or "Seller"), a Delaware corporation. This Agreement provides for the sale by Seller of Default Service, as defined herein, to the Buyer. The Buyer and Seller are referred to herein individually as a "Party" and collectively as the "Parties".

#### ARTICLE 1. BASIC UNDERSTANDINGS

Seller, in response to a Request for Proposals issued on March 3 February 22, 2020 2022 by Unitil Serv Corp on behalf of the Buyer, has been selected to be the supplier of firm, load-following power to meet the Buyer's Service Requirements as defined in the Service Requirements Matrix found in Appendix A. This Agreement sets forth the terms under which Seller will supply, and Buyer will purchase, Default Service during the Delivery Term.

#### ARTICLE 2. DEFINITIONS

As used in this Agreement, the following terms shall have the meanings specified in this Article. In addition, except as otherwise expressly provided, terms with initial capitalization used in this Agreement and not defined herein shall have the meaning as defined in the ISO Rules.

<u>Affiliate</u> means, with respect to any Party, any entity (other than an individual) that, directly or indirectly, controls, is controlled by, or is under common control with, such Party. For this purpose, "control" means the direct or indirect ownership of fifty percent (50%) or more of the outstanding capital stock or other equity interests having ordinary voting power.

<u>Average Weighted RT LMP</u> (real time locational marginal price) is the value determined each month during the Delivery Term of the Large Customer Group Service Requirement. The Average Weighted RT LMP is added to the Fixed Monthly Adder to calculate the Contract Rate per MWh for the Large Customer Group Service Requirement. The calculation of the Average Weighted RT LMP is detailed in Section 5.1.

**Business Day** means a 24-hour period ending at 5:00 p.m. EPT, other than Saturday, Sunday and any day which is a legal holiday or a day on which banking institutions in Boston, Massachusetts are authorized by law or other governmental action to close.

**Buyer** means UES along with its permitted successors and assigns.

Buyer's System means the electrical transmission and distribution system of the Buyer.

<u>Commencement Date</u> means, with respect to a Service Requirement, the period beginning at the start of HE 0100 EPT on the date set forth for such Service Requirement on Schedule 1 of Appendix A.

**Commission** means the Federal Energy Regulatory Commission.

<u>Competitive Supplier Terms</u> means the Terms and Conditions for Competitive Suppliers, which are a part of the Retail Delivery Tariff, as may be amended from time to time.

**Execution Copy Draft for Review by UES** 

Date: March 23, 2022

<u>Conclusion Date</u> means, with respect to a Service Requirement, the period through and including the end of the HE 2400 EPT on the date set forth for such Service Requirement on Schedule 2 of Appendix A.

**Confidential Terms** shall be as defined in Article 23.

<u>Contract Rate</u> means the value expressed in \$/MWh as set forth in Section 5.1 and Appendix B, as applicable to each Service Requirement for each Customer Group, during a month in the Delivery Term.

<u>Credit Rating</u> means, with respect to any entity, on any date of determination (i) the lower of the ratings assigned to an entity's unsecured, senior long-term debt obligations (not supported by third party credit enhancements) by S&P and Moody's, or (ii) in the event the entity does not have a rating for its senior unsecured long-term debt obligations (not supported by third party credit enhancements), the lower of the rating assigned to the entity as an issuer rating by S&P and Moody's, provided that the guaranty by the Province of Québec of the senior unsecured long-term debt obligations of Hydro-Québec (Seller's Affiliate) shall not be considered to constitute a "third party credit enhancement" for the purposes of this definition, or the rating assigned to the entity as an issuer rating by any other rating agency agreed to by both Parties in each Party's sole and exclusive judgment.

<u>Credit Requirements</u> means the satisfaction of any and all financial measures and/or Credit Rating status as detailed in Section 7.3(a).

<u>Customer Disconnection Date</u> means the date when a Default Service Customer is disconnected from service, as determined by the Buyer in accordance with the Retail Delivery Tariff.

<u>Customer Group</u> means the Small Customer Group, the Medium Customer Group and/or the Large Customer Group, as the case may be.

<u>Customer Initiation Date</u> means the date a retail customer of the Buyer begins taking service pursuant to the Schedule DS of the Buyer's Retail Delivery Tariff, as determined by the Buyer.

<u>Customer Termination Date</u> means the date when a Default Service Customer ceases to take service pursuant to Schedule DS under the Retail Delivery Tariff.

<u>Default Service</u> means the provision of Requirements by Seller at the Delivery Point to the Buyer to meet all needs of Default Service Customers.

<u>Default Service Customer(s)</u> means the retail customer(s) in each Customer Group identified in Appendix A taking service pursuant to Schedule DS of the Retail Delivery Tariff during the applicable Delivery Term.

<u>Delivered Energy</u> means the quantity of energy, expressed in MWh, provided by Seller under the terms of this Agreement. This quantity shall be the sum of energy reported to the ISO by the Buyer for each of the Load Assets identified in Section 6.4, with such quantity determined by the Buyer in accordance with Section 6.3 of this Agreement. Such quantity shall not include any allocation of PTF losses up to and including the Delivery Point (which the ISO may assess to Seller in relation to such energy), but shall include transmission and distribution losses on the Buyer's System from the Delivery Point to the meters of Default Service Customers.

<u>Delivery Point</u> means the PTF location where Requirements are settled under ISO Rules. UES load assets are currently settled at the New Hampshire Load Zone (4002). The UES load physically exists and is metered at the substations listed in Appendix C.

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**Delivery Term(s)** means the applicable period associated with a Service Requirement beginning at the start of HE 0100 EPT on the date set forth for such Service Requirement in Schedule 1 of Appendix through and including the end of the HE 2400 EPT on the date set forth for such Service Requirement in Schedule 2 of Appendix A.

<u>Distribution Service Terms</u> means the Terms and Conditions for Distribution Service, which are a part of the Retail Delivery Tariff, as may be amended from time to time.

**EPT** means Eastern Prevailing Time.

**Estimation Process** shall be as defined in Section 6.3.

<u>Fixed Monthly Adder</u> means the dollar per MWH price specified in Appendix B. The Fixed Monthly Adder is added to the Average Weighted RT LMP each month during the Delivery Term of the Large Customer Group Service Requirement in order to calculate the monthly Contract Rate per MWH for the Large Customer Group Service Requirement.

Governing Documents means, with respect to any particular entity, (a) if a corporation, the (i) articles of organization, articles of incorporation or certificate of incorporation and (ii) the bylaws; (b) if a general partnership, the partnership agreement and any statement of partnership; (c) if a limited partnership, the limited partnership agreement and the certificate of limited partnership; (d) if a limited liability company, the articles or certificate of organization or formation and operating agreement; (e) if another type of entity, any other charter or similar document adopted or filed in connection with the creation, formation or organization of such entity; (f) all equity holders' agreements, voting agreements, voting trust agreements, joint venture agreements, registration rights agreements or other agreements or documents relating to the organization, management or operation of any entity or relating to the rights, duties and obligations of the equity holders of any entity; and (g) any amendment or supplement to any of the foregoing.

<u>Guarantor</u> means Hydro-Québec (Seller's Affiliate) or such other guarantor acceptable to the Buyer.

<u>Guaranty</u> shall be as defined in Section 7.3(d). The Guaranty shall be in a form consistent with Appendix D hereto.

<u>Interest Rate</u> means, for any date, the lesser of (a) the per annum rate of interest equal to the prime lending rate as may from time to time be published in The Wall Street Journal under "Money Rates" on such day (or if not published on such day, on the most recent preceding day on which published), plus two percent (2%) and (b) the maximum rate permitted by applicable law.

Investment Grade means (i) if an entity has a Credit Rating from both S&P and Moody's then, a Credit Rating from S&P equal to or better than "BBB-" and a Credit Rating from Moody's equal to or better than "Baa3"; or (ii) if an entity has a Credit Rating from only one of S&P and Moody's, then a Credit Rating from S&P equal to or better than "BBB-" or a Credit Rating from Moody's equal to or better than "Baa3 or (iii) if the Parties have mutually agreed in writing on an additional or alternative rating agency, then a Credit Rating from S&P (if applicable) equal to or better than "BBB-" and/or a Credit Rating from Moody's (if applicable) equal to or better than "Baa3", and with respect to the additional or alternative rating agency, a credit rating equal to or better than that mutually agreed to by the Parties in each Party's sole and exclusive judgment.

<u>ISO</u> means ISO New England Inc., the Independent System Operator / Regional Transmission Organization established in accordance with the NEPOOL Agreement, and any successor.

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<u>ISO Rules</u> means all rules adopted by the ISO or NEPOOL, as such rules may be amended, added, superseded and restated from time to time, including the NEPOOL Agreement, ISO New England Inc. Transmission, Markets and Services Tariff, FERC Electric Tariff No. 3, the Transmission Operating Agreement, and the Participants Agreement, the ISO Manuals, and the NEPOOL Operating Procedures.

**kWh** means kilowatt-hour.

<u>Large Customer Group</u> means the retail customers assigned to the following customer rate class: Large General Service Schedule G1.

Material Adverse Effect means, with respect to a Party, any change in or effect on such Party after the date of this Agreement that is materially adverse to the transactions contemplated hereby, excluding any change or effect resulting from (a) changes in the international, national, regional or local wholesale or retail markets for electric power; (b) changes in the international, national, regional or local markets for any fuel; (c) changes in the North American, national, regional or local electric transmission or distribution systems; and (d) any action or inaction by a governmental authority, but in any such case not affecting the Parties or the transactions contemplated hereby in any manner or degree significantly different from others in the industry as a whole.

<u>Medium Customer Group</u> means the retail customers assigned to the following customer rate classes: Regular General Service Schedule G2, and Outdoor Lighting Service Schedule OL.

Moody's means Moody's Investors Service Inc., its successors and assigns.

MWh means Megawatt-hour.

**NEPOOL** means the New England Power Pool, or its successor.

**NEPOOL Agreement** means the Second Restated New England Power Pool Agreement dated as of April 7, 2017 and effective on September 1, 2017, as amended or accepted by the Commission and as may be amended, superseded and/or restated from time to time.

**NHPUC** means the New Hampshire Public Utilities Commission.

**NH Load Zone** means the New Hampshire Reliability Region as defined in the ISO Rules.

**Programs** shall be as defined in Section in 3.6(b).

<u>PTF</u> means facilities categorized as Pool Transmission Facilities under ISO Rules.

**Requirements** shall be as defined in Section 4.2(c).

**Retail Delivery Tariff** means UES' Tariff for Electric Delivery in the State of New Hampshire.

**S&P** means S&P Global Ratings Inc. (a division of S&P Global Inc.), its successors and assigns.

<u>Service Requirement</u> means a load-following, wholesale power supply requirement, defined by a unique combination of Customer Group, load responsibility and Delivery Term as listed in Appendix A.

<u>Small Customer Group</u> means the retail customers assigned to the following customer rate classes: Domestic Delivery Service Schedule D.

**Term** shall be as defined in Section 3.1.

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# ARTICLE 3. TERM, SERVICE PROVISIONS AND REGISTRATION REQUIREMENTS

#### Section 3.1 Term

This Agreement shall be effective immediately upon execution by the Parties and shall continue in effect until the Service Requirements listed in Appendix A have been fully performed and final payment made hereunder or this Agreement has been otherwise terminated as provided herein by reason of an uncured Event of Default (the "Term"). As of the expiration of this Agreement or, if earlier, its termination, the Parties shall no longer be bound by the terms and provisions hereof, except (a) to the extent necessary to enforce the rights and obligations of the Parties arising under this Agreement before such expiration or termination and (b) the obligations of the Parties hereunder with respect to audit rights, remedies for default, damages claims, indemnification and defense of claims shall survive the termination or expiration of this Agreement to the full extent necessary for their enforcement and the protection of the Party in whose favor they run, subject to any time limits specifically set forth in this Agreement.

## Section 3.2 <u>Commencement of Supply</u>

- (a) Beginning as of the Commencement Date applicable to the Customer Group set forth on Appendix A, Seller shall provide Requirements to the Buyer. For purposes of certainty, Seller's obligations on the Commencement Date shall be to provide Requirements for all Default Service Customers taking service as of and including the Commencement Date.
- (b) With respect to each person or entity that becomes a Default Service Customer subsequent to the Commencement Date, Seller shall provide Requirements to the Buyer to meet the needs of the Default Service Customer(s) as of and including the Customer Initiation Date for such customer initiating such service during the Delivery Term.
- (c) During the Delivery Term that Seller provides Default Service to the Buyer's Large Customer Group, Buyer shall notify Seller promptly of all Customer Initiation Dates of retail customers in the Large Customer Group. Upon such notice, Buyer shall also provide to Seller historic annual (prior billed 12 months) peak kVa and total kWh consumption for such Large Customer Group.

#### Section 3.3 Termination, Disconnection and Conclusion of Supply

- (a) With respect to each Default Service Customer that terminates Default Service during the Delivery Term, Seller shall not provide Requirements for such customer as of the Customer Termination Date.
- (b) With respect to each Default Service Customer whose Default Service is disconnected during the Delivery Term, Seller shall not provide Requirements for such customer as of the Customer Disconnection Date.
- (c) During the Delivery Term that Seller provides Default Service to the Buyer's Large Customer Group, Buyer shall notify Seller promptly of all Customer Termination Dates and Customer Disconnection Dates of retail customers in the Large Customer Group. Upon such notice, Buyer shall also provide to Seller historic annual (prior billed 12 months) peak kVa and total kWh consumption for such customers.
- (c) Seller's obligation to provide Requirements shall cease at the Conclusion Date.

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#### Section 3.4 Distribution Service Interruptions

Seller acknowledges that interruptions in distribution service may occur and may reduce the load served hereunder. Seller further acknowledges and agrees that the Buyer may interrupt distribution service to customers consistent with the Distribution Service Terms and the Competitive Supplier Terms. In no event shall a Party have any liability or obligation to the other Party in respect of any such interruptions in distribution service.

#### Section 3.5 Release of Customer Information

The Buyer will not issue any customer information to Seller unless Seller has first obtained the necessary authorization in accordance with the provisions of the Competitive Supplier Terms.

#### Section 3.6 Change in Supply; No Prohibition on Programs

- (a) Seller acknowledges and agrees that the number of customers and the Requirements to meet the needs of such customers will fluctuate throughout the Delivery Term and may equal zero. The Buyer shall not be liable to Seller for any losses Seller may incur, lost revenues, and losses that may result from any change in Requirements, number or location of customers taking service, the location of the Delivery Point(s), the composition or components of market products or Requirements, or the market for electricity, or change in the Retail Delivery Tariff. Seller further acknowledges and agrees that there is no limit on the number of Customer Initiation Dates, Customer Termination Dates and Customer Disconnection Dates.
- (b) Seller acknowledges and agrees that the Buyer has the right but not the obligation to continue, initiate, support or participate in any programs, promotions, or initiatives designed to or with the effect of encouraging customers to leave Default Service for any reason ("Programs"). Nothing in this Agreement shall be construed to require notice to or approval of Seller in order for the Buyer to take any action in relation to Programs.
- (c) Seller acknowledges and agrees that the Buyer and Affiliates of the Buyer will not provide Seller preferential access to or use of the Buyer's System and that Seller's sole and exclusive rights and remedies with regard to access to, use or availability of the Buyer's System, and the Buyer's or Affiliates of the Buyer's obligation to transmit electricity are those rights, remedies and obligations provided under the Retail Delivery Tariff, the ISO Rules, and the Buyer's Open Access Transmission Tariff.

#### Section 3.7 <u>Disclosure Requirements</u>

In the event that the NHPUC implements a disclosure label requirement which requires the Buyer to document its power supply attributes, then the Seller shall provide the Buyer information pertaining to Seller's and Affiliates of Seller' power plant emissions, fuel types, labor information and any other similar information required by the Buyer to comply with such requirement, provided, however, that (i) any such information to be disclosed by the Seller shall be kept strictly confidential by the Buyer and (ii) the Buyer shall include a request for confidential treatment by NHPUC of such information prior to any disclosure and shall take any and all additional measures, to the fullest extent permitted by law, to protection the confidentiality of such information.

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#### Section 3.8 Regulatory Approvals

Notwithstanding Section 21(d) below, or anything else to the contrary herein, the Parties' obligations under this Agreement are subject to Buyer obtaining approval from NHPUC of the inclusion in retail rates of the amounts payable by Buyer to Seller under this Agreement, without material modification to the obligations of either Party under this Agreement. Buyer shall use its best efforts to obtain prompt approval of such rates. If Buyer is unable to obtain NHPUC approval by April 8, 2022, Buyer and Seller agree to review the status of such approval process and determine whether to continue to pursue the transaction contemplated in this Agreement. If the Parties cannot agree as to how to continue such transaction, this Agreement shall terminate without liability to either Party.

## ARTICLE 4. SALE AND PURCHASE

#### Section 4.1 <u>Provision Delivery and Receipt</u>

Seller shall provide and deliver to the Delivery Point and the Buyer shall receive at the Delivery Point the percent of the Requirements applicable to each Service Requirement as set forth on Appendix A during the Delivery Term.

## Section 4.2 <u>Responsibilities</u>

- (a) Buyer shall be responsible for arranging and paying for the transmission of the power across NEPOOL PTF and for any ancillary services, allocated to the Network Load, associated with the Service Requirements. Arranging and paying for transmission across NEPOOL PTF, required of the Buyer, includes, but is not limited to taking Regional Network Service under the ISO New England Inc. Transmission, Markets and Services Tariff ("ISO Tariff"). Arranging and paying for ancillary services, required by the Buyer, includes, but is not limited to any transmission dispatch or power administration services, as may be allocated to Network Load in accordance with ISO Rules. Arranging and paying for transmission from NEPOOL PTF to Buyer's distribution facilities includes, but is not limited to, taking Network Integration Transmission Service under the Service Agreement for Network Integration Transmission Service between Northeast Utilities Service Company and UES.
- (b) Seller shall be responsible for all present and future obligations, requirements, and costs associated with the Requirements.
- (c) The term "Requirements" means the provision of energy at the Delivery Point as set forth in Section 4.2(e), capacity as set forth in Section 4.2(f) and ancillary services as set forth in Section 4.2(g), in each case associated with the Service Requirements as set forth in Appendix A.
- (d) If ISO Rules are modified during the Term of this Agreement, which change the allocation of currently existing charges and obligations from the Load Asset, associated with the Service Requirements to the Network Load, associated with the Buyer's transmission responsibilities, then, the Parties shall meet within twenty (20) Business Days to negotiate in good faith amendments to the terms and conditions of this Agreement to the effect that the charges or obligations would be transferred back to the Seller through the ISO and/or ISO settlement process, or, if such transfer is not possible, to compensate the Buyer for any actual additional cost. If ISO Rules are modified during the Term of this Agreement, which change the allocation of currently existing charges and obligations from the Network Load, associated with the Buyer's transmission responsibilities to the Load Asset, associated with the Service Requirements, then, the Parties shall

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meet within twenty (20) Business Days to negotiate in good faith amendments to the terms and conditions of this Agreement to the effect that the charges or obligations would be transferred back to Buyer through the ISO and/or ISO settlement process, or, if such transfer is not possible, then to compensate the Seller for such actual charges. If ISO Rules are changed after the date of this Agreement, which create new charges or obligations, associated with the Service Requirements, then or which create new charges or obligations, associated with the Network Load, associated with the Buyer's transmission responsibilities, then the Parties shall meet within twenty (20) Business Days to negotiate in good faith amendments to the terms and conditions of this Agreement to reflect such changes in a manner that is acceptable to both Parties. If the Parties are unable to agree as to appropriate amendments to this Agreement to reflect the abovementioned changes within a reasonable delay after the first meeting to be held in accordance with this paragraph, either Party may terminate this Agreement upon prior written notice to the other Party without liability to either Party.

- (e) Provision of energy includes, but is not limited to, the following: Seller shall have the Day-Ahead Load Obligation and the Real-Time Load Obligation, associated with the Service Requirements at the Delivery Point. Currently, the Energy Settlement Obligation, associated with the Service Requirements at the Delivery Point, is settled at the New Hampshire Load Zone. In the event that NEPOOL or the ISO implements nodal settlement of load obligations of the Day-Ahead Energy Market and Real-Time Energy Market, the Seller shall continue to be responsible for Day-Ahead and Real-Time Load Obligations at the appropriate settlement location(s), associated with the Service Requirements at the Delivery Point.
- (f) Provision of capacity includes, but is not limited to, the following: Seller shall have the ICAP Settlement Obligation, associated with the Service Requirements at the Delivery Point. Currently, the ICAP Settlement Obligation, associated with the Service Requirements at the Delivery Point, can be satisfied with any ICAP resource, recognized by the ISO in the NEPOOL control-area or imported into the NEPOOL control-area. In the event that ISO implements a locational capacity requirement, including that which was proposed in the Commission's docket number ER03-563, then the Seller will be responsible for providing ICAP at the location, required to meet the Locational ICAP Settlement Obligation, associated with the Service Requirements at the Delivery Point.
- (g) Provision of ancillary services, required of the Seller, includes, but is not limited to, the following: Regulation, Operating Reserves, Local Second-Contingency-Protection Resource ("LSCPR") other than LSCPR Operating Reserve charges that are monthly fixed-cost charges paid to Special Constraint Resources pursuant to agreements negotiated pursuant to Schedule 19 of Section II Open Access Transmission Tariff, Net Commitment Period Compensation ("NCPC") other than LSCPR NCPC charges that are monthly fixed-cost charges paid to Specialty Constraint resources pursuant to agreements negotiated under Schedule 19 of Section II Open Access Transmission Tariff, Forward Reserves, and any transmission dispatch or power administration services, as may be allocated to the Owner of the Load Assets, associated with the Service Requirements in accordance with ISO Rules. If ISO Rules are changed such that locational ancillary services are required, then the Seller shall be responsible for meeting the locational ancillary services requirement, associated with the Service Requirements at the Delivery Point.
- (h) It is the intent of the Parties that for each Financial Transmission Rights Auction ("FTR Auction") conducted by the ISO for months within the Delivery Term (s), those Auction Revenue Rights ("ARRs") associated solely with the Service Requirement shall be assigned or paid to

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Seller, provided, however, Buyer shall be under no obligation to participate in any manner in any FTR Auction in order to increase Auction Revenue Right quantities.

## ARTICLE 5. AMOUNT, BILLING and PAYMENT

#### Section 5.1 Amount

The amount payable by the Buyer to Seller for the Requirements in respect of each month during the Delivery Term shall be the product of (a) the total Delivered Energy for each Customer Group, as identified in Appendix A for such month during the applicable Delivery Term, <u>multiplied by</u>, (b) the Contract Rate for each Customer Group as identified in Appendix B for such month during the applicable Delivery Term.

In respect of the applicable Contract Rate for the Large Customer Group only, the Contract Rate shall be the sum of the Average Weighted RT LMP and the Fixed Monthly Adder as shown in Equation 1. The Average Weighted RT LMP is calculated in accordance with Equation 2.

#### **Equation 1**

```
Contract Rate = Average Weighted RT LMP + Fixed Monthly Adder
```

orted

for the Large Customer Group default service load asset, Load Asset number 10019, and the hourly real time locational marginal prices ("RT LMP") for the settlement location of Load Asset 10019, which is currently the New Hampshire Load Zone (4002). The Average Weighted RT LMP equals the sum of the products of the RT LMP and the Delivered Energy (MWh) of Load Asset 10019 in each hour of the month of service, divided by the sum of Delivered Energy (MWh) of Load Asset 10019 for the month of service, as shown in Equation 2.

#### **Equation 2**

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Average Weighted RT LMP = Sum [hourly RT LMP * hourly Delivered Energy (MWh) of Load Asset 10019]
Sum [hourly Delivered Energy (MWH) of Load Asset 10019]
```

month of service. Once agreed upon, the Contract Rate for the month of service shall be final and shall not be subject to change in the event that either the New Hampshire RT LMP or the Delivered Energy (MWh) of Load Asset 10019 are subsequently revised or restated.

## Section 5.2 <u>Billing and Payment</u>

(a) On or before the twentieth (20th) day of each month ("Invoice Date") during the Term of this Agreement, Seller shall calculate the amount due and payable to Seller pursuant to this Article 5 for Requirements with respect to the immediately preceding month (the "Calculation"). Seller shall provide the Calculation to the Buyer and such Calculation shall include sufficient detail for the Buyer to verify its formulation and computation. Calculations under this paragraph shall be subject to recalculation in accordance with Article 6 and shall be subject to adjustment (positive or negative) based upon such recalculation (a "Reconciliation Adjustment"). Seller shall promptly calculate the Reconciliation Adjustment upon receiving data described in Section 6.3 and shall include the adjustment, if any, in the next month's Invoice. A Reconciliation Adjustment based

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upon a change in the quantity for an earlier month shall be calculated using the applicable Contract Rate for the month in which the Delivered Energy was received.

- (b) Seller shall submit to the Buyer an invoice with such Calculation as provided for in paragraph (a) of this Section (the "Invoice") and the respective amounts due under this Agreement on the Invoice Date. The Buyer shall pay Seller the amount of the Invoice (including the Reconciliation Adjustment, if any, as a debit or credit) less any amounts disputed in accordance with Section 5.3, on or before the later of the last Business Day of each month, or the tenth (10th) day after receipt of the Invoice, or, if such day is not a Business Day, then on the next following Business Day (the "Due Date"). Such payment shall be made by wire transfer in immediately available United States dollars to the Seller's account as specified in the Invoice. Except for amounts disputed in accordance with Section 5.3, if all or any part of the Invoice remains unpaid after the Due Date, interest shall accrue after but not including the Due Date and be payable to Seller on such unpaid amount at the Interest Rate in effect on the Due Date. The Due Date for a Reconciliation Adjustment shall be the Due Date of the Invoice in which it is included.
- (c) Each Party shall notify the other Party upon becoming aware of an error in an Invoice, Calculation or Reconciliation Adjustment (whether the amount is paid or not) and Seller shall promptly issue a corrected Invoice. Overpayments shall be returned by the receiving Party upon request or deducted by the receiving Party from subsequent invoices, with interest accrued at the Interest Rate from the date of the receipt of the overpayment until the date paid or deducted.

## Section 5.3 <u>Challenge to Invoices</u>

Either Party may challenge, in writing, the accuracy of Calculations, Invoices, Reconciliation Adjustments and data no later than twenty-four (24) months after the Due Date of the Invoice in which the disputed information is contained. If a Party does not challenge the accuracy within such twenty-four (24) month period, such Invoice shall be binding upon that Party and shall not be subject to challenge. If any amount in dispute is ultimately determined (under the terms herein) to be due to the other Party, it shall be paid or returned (as the case may be) to the other Party within three (3) Business Days of such determination along with interest accrued at the Interest Rate from the (i) date due and owing in accordance with the Invoice until the date paid or (ii) if the amount was paid and is to be returned, from the date paid, until the date returned.

#### Section 5.4 Taxes, Fees and Levies

Seller shall be obligated to pay all present and future taxes, fees and levies ("Taxes") which may be assessed by any entity upon the Seller's performance under this Agreement, including the purchase and sale of Requirements, up to and at the Delivery Point and the Buyer will pay all Taxes with respect to the Requirements after the Delivery Point. If a Party is required to remit or pay any Taxes that are the other Party's responsibility hereunder, the Party responsible for such Taxes shall promptly reimburse the other Party for such Taxes. All Requirements, including electricity and other related market products delivered hereunder by Seller to the Buyer, shall be sales for resale with the Buyer reselling such electricity and products.

#### Section 5.5 Netting and Setoff

Except for security provided pursuant to Section 7.3 (which shall not be considered for purposes of this Section 5.5) and unless otherwise specified in another written agreement between the Parties, if the Parties are required to pay an amount in the same month each to the other under this

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Agreement or any other agreement between the Parties and such amounts are not being disputed by either Party in accordance with this Agreement, such amounts shall be netted and the Party owing the greater aggregate amount shall pay to the other Party any difference between the amounts owed. Each Party reserves all rights, setoffs, counterclaims and other remedies and defenses (to the extent not expressly herein or therein waived or denied) that such Party has or to which such Party may be entitled arising from or out of this Agreement or the other agreement. All outstanding obligations to make payment under this Agreement or any other agreement between the Parties may be netted against each other, set off or recouped there from, or otherwise adjusted.

## ARTICLE 6. QUALITY; LOSSES and QUANTITIES REQUIRED; DETERMINATION AND REPORTING OF HOURLY LOADS

#### Section 6.1 Quality

All energy component of the Requirements shall be delivered to the Buyer in the form of three-phase sixty-hertz alternating current at the Delivery Point.

#### Section 6.2 Losses

Seller shall be responsible for any transmission losses up to and including the Delivery Point. Losses beyond the Delivery Point are included in Delivered Energy and are paid for by the Buyer at the applicable Contract Rate.

## Section 6.3 <u>Determination and Reporting of Hourly Loads</u>

The Buyer will estimate the Delivered Energy for Default Service provided by Seller pursuant to this Agreement based upon average load profiles developed for each of the Customer Group, actual metered data, as available, and the Buyer's actual total hourly load. The Buyer shall report to the ISO and Seller the estimated Delivered Energy (the "Estimation Process"). In accordance with the ISO Rules, the Buyer will report to the ISO and to Seller the Seller's estimated Delivered Energy by 1:00 P.M EPT of the second following Business Day after delivery. The Buyer shall have the right but not the obligation, in its sole and exclusive judgment, to modify the Estimation Process from time to time, provided that any such modification is designed with the objective of improving the accuracy of the Estimation Process.

Each month, the Buyer shall reconcile the Buyer's estimate of the Delivered Energy based upon the Buyer's meter reads (such meter reads as provided for in the Retail Delivery Tariff). The reconciliation, including all losses, shall be the adjusted Delivered Energy. In accordance with the ISO Rules, the Buyer will notify the ISO of any resulting adjustment (debit or credit) to Seller's account for the Load Assets (set forth in Section 6.4) no later than the last day of the third month following the billing month.

## Section 6.4 <u>ISO Settlement Power System Model Implementation</u>

The Default Service provided by Seller pursuant to this Agreement will be initially represented within the ISO Settlement Power System Model as described in Appendix A.

As soon as possible after the execution of this Agreement and before the Commencement Date, the Buyer shall assign to Seller, and Seller shall accept assignment of an Ownership Share for each Load Asset identified in Appendix A. Such assignment shall be effective beginning on the

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Commencement Date. Seller shall take any and all actions necessary to effectuate such assignment including executing documents required by ISO Rules. Once Seller's provision of Default Service terminates (at the end of a Delivery Term or otherwise), the Buyer and Seller will terminate Seller's Ownership Shares of the aforementioned Load Assets.

The Buyer shall have the right to change the Load Asset designations (identified above) from time to time, consistent with the definition and provision of Default Service. If and to the extent such designations change, the Buyer and Seller shall cooperate to timely put into effect the necessary documents that may be required to implement the new designations and terminate the prior designations.

#### ARTICLE 7. DEFAULT AND TERMINATION

#### Section 7.1 Events of Default

- (a) Any one or more of the following events shall constitute an "Event of Default" hereunder with respect to the Buyer:
  - (i) Failure of the Buyer
    - (A) in any material respect to comply with, observe or perform any covenant, warranty or obligation under this Agreement (but excluding events that are otherwise specifically covered in this Section as a separate Event of Default and except due to causes excused by Force Majeure or attributable to Seller's breach of this Agreement); and
    - (B) After receipt of written notice from Seller such failure continues for a period of three (3) Business Days, or, if such failure cannot be reasonably cured within such three (3) Business Day period, such further period as shall reasonably be required to effect such cure (but in no event longer than thirty (30) days), provided that the Buyer commences within such three (3) Business Day period to effect a cure and at all times thereafter proceed diligently to complete the cure as quickly as possible and provides to Seller written documentation of its efforts and plan to cure and estimated time for completion of the cure.
  - (ii) Failure of the Buyer to (A) make when due any undisputed payment due to Seller hereunder; and (B) after receipt of written notice from Seller such failure continues for a period of three (3) Business Days.
  - (iii) Failure of the Buyer to accept Default Service in accordance with Article 3 (unless excused by Force Majeure or attributable to the Seller's breach of this Agreement, or otherwise in accordance with this Agreement).
- (b) Any one or more of the following events shall constitute an "Event of Default" hereunder with respect to Seller:
  - (i) Failure of Seller
    - (A) in any material respect to comply with, observe, or perform any covenant, warranty or obligation under this Agreement (but excluding events that are otherwise specifically covered in this Section as a separate

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Event of Default and except due to causes excused by Force Majeure or attributable to the Buyer's in breach of this Agreement); and

- (B) after receipt of written notice from the Buyer such failure continues for a period of three (3) Business Days, or, if such failure cannot be reasonably cured within such three (3) Business Day period, such further period as shall reasonably be required to effect a cure (but in no event longer than thirty (30) days), provided that Seller commences within such three (3) Business Day period to effect such cure and at all times thereafter proceeds diligently to complete the cure as quickly as possible and provides to the Buyer written documentation of its efforts and plan to cure and estimated time for completion of the cure.
- (ii) Failure of Seller to provide Requirements in accordance with Articles 3 and 4; and
- (iii) Failure of Seller to provide or maintain the Guaranty in accordance with Section 7.3 if such failure is not remedied within three (3) Business Days after written notice.
- (c) Any one or more of the following events with respect to either Party shall constitute an "Event of Default" hereunder with respect to such Party:
  - (i) The entry by a court having jurisdiction in the premises of (A) a decree or order for relief in respect of such Party in an involuntary case or proceeding under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law, or (B) a decree or order adjudging such Party as bankrupt or insolvent, or approving as properly filed a petition seeking reorganization, arrangement, adjustment or composition of or in respect of such Party under any applicable federal or state law, or appointing a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of such Party or of any substantial part of its property, or ordering the winding up or liquidation of its affairs;
  - The commencement by such Party of a voluntary case or proceeding, or any filing (ii) by a third party of an involuntary case or proceeding against a Party that is not dismissed within forty-five (45) days of such filing, under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law, or of any other case or proceeding to be adjudicated as bankrupt or insolvent, or the consent by it to the entry of a decree or order for relief in respect of such Party in an involuntary case or proceeding under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law or to the commencement of any bankruptcy or insolvency case or proceeding against it, or the filing by it of a petition or answer or consent seeking reorganization or relief under any applicable federal or state law, or the consent by it to the filing of such petition or to the appointment of or taking possession by a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of a Party or of any substantial part of its property, or the making by it of an assignment for the benefit of creditors, or the admission by it in writing of its inability to pay its debts generally as they become due, or the taking of corporate action by such Party in furtherance of any such action;
  - (iii) Any representation or warranty made by a Party is or becomes false or misleading in any material respect; and

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(iv) Failure of a Party to deliver Performance Assurance when due or maintain such Performance Assurance in accordance with Section 7.3 if such failure is not remedied within three (3) Business Days after written notice.

## Section 7.2 <u>Remedies Upon Default</u>

The Parties shall have the following remedies available to them with respect to the occurrence of an Event of Default with respect to the other Party hereunder:

- Upon the occurrence of an Event of Default, the non-defaulting Party shall have the right to (i) continue performance under this Agreement and exercise such rights and remedies as it may have at law, in equity or under this Agreement and seek remedies as may be necessary or desirable to enforce performance and observation of any obligations and covenants under this Agreement, so long as such rights and remedies are not duplicative of any other rights and remedies hereof, and do not otherwise enable the non-defaulting Party to obtain performance or payments in excess of the performance and payments to which it is otherwise entitled pursuant to this Agreement, or (ii) at its option, give such defaulting Party a written notice (a "Termination Notice") terminating this Agreement. Upon a termination for an Event of Default under Section 7.1(a), (b) or (c)(iii) and (iv), such termination shall be effective as of the date specified in the Termination Notice, which date shall be no earlier than the date such notice is effective and no later than thirty (30) days after the date of such notice is provided to the defaulting Party in accordance with Article 8. Upon a termination for an Event of Default under Section 7.1(c)(i) or (ii), such termination shall be effective as of the date of the Event of Default, upon notice being provided to the defaulting Party in accordance with Article 8. Any attempted cure by a defaulting Party after a Termination Notice has been provided or the effective termination under Section 7.1(c)(i) or (ii) shall be void and of no effect. The Parties' obligations under this Agreement, in general and under this Section 7.2 in particular, are subject to the duty to mitigate damages as provided under common law.
- (b) At any time after the occurrence of an Event of Default, or the delivery of a Termination Notice to the defaulting Party by the non-defaulting Party, the non-defaulting Party may exercise any rights it may have pursuant to the Section 7.3 (Security).
- (c) In the event of termination for an Event of Default as provided in Section 7.1, in addition to any amounts owed for performance (or failure to perform) hereunder prior to such termination, the non-defaulting Party may recover, without duplication, its direct damages resulting from such Event of Default; such damages shall include the positive (if any) present value of this Agreement to the non-defaulting Party for the portion of the Delivery Term remaining at the time of such termination, to be determined by reference to market prices, transaction costs and load reasonably projected for the remaining portion of the Delivery Term ("Termination Damages"). The Termination Damages shall include all reasonably incurred transaction costs and expenses that otherwise would not have been incurred by the non-defaulting Party. In determining its Termination Damages, the non-defaulting Party shall offset its losses and costs by any gains or savings realized by the non-defaulting Party as a result of the termination.

Payment of Termination Damages, if any, shall be made by the defaulting Party to the non-defaulting Party within five (5) days after calculation of such Termination Damages and receipt of a notice including such calculation of the amounts owed hereunder and a written statement showing in reasonable detail the calculation and a summary of the method used to determine such amounts. Upon the reasonable request of the defaulting Party, the non-defaulting Party shall provide reasonable documentation to verify the costs underlying the Termination

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Damages. If the defaulting Party disputes the non-defaulting Party's calculation of the Termination Damages, in whole or in part, the defaulting Party shall, within five (5) days of receipt of the non-defaulting Party's calculation of the Termination Damages, provide to the non-defaulting Party a detailed written explanation of the basis for such dispute; provided, however, that, the defaulting Party shall first pay the Termination Damages, if any, to the non-defaulting Party in accordance with the preceding sentence, and the non-defaulting Party shall then deposit such disputed amount into an interest bearing escrow account for the benefit of the prevailing Party and the dispute shall be resolved in accordance with Section 15.2.

- (d) Notwithstanding any other provision of this Agreement, the cure of any default or failure to comply with, observe or perform any covenant, warranty or obligation under this Agreement within the period provided therefor in this Article shall not release such defaulting Party from its obligations under Section 9.2 of this Agreement.
- (e) Upon termination, the Buyer shall, and upon the occurrence of an Event of Default by Seller, the Buyer shall have the right to, immediately notify the ISO that (i) the assignment from the Buyer to Seller of the applicable Ownership Share has been terminated, (ii) the Load Assets shall be removed from Seller's account and placed in the account of the Buyer and (iii) Seller consents to such action. In the event the Buyer so notifies the ISO, Seller shall immediately take any and all actions that may be required by the ISO to remove the Load Assets from Seller's account and place them in the account of the Buyer. If the Agreement has not been terminated, the Buyer, in its sole discretion with a five 5 Business Day prior notice to Seller, may elect to assign the applicable Ownership Share of the Load Assets to the account of Seller and Seller shall accept such assignment, consistent with the actions required by Section 6.4 of this Agreement.

### Section 7.3 Security

- (a) If, at any time during the Term of this Agreement: (i) in the case of the Buyer, the Credit Rating of the Buyer, or (ii) in the case of the Seller, the Credit Rating of the Guarantor, as the case may be (the "Credit Deficient Party"), is below Investment Grade, then within three (3) Business Days after a request of the applicable Party, the Credit Deficient Party shall deliver the applicable amount of performance assurance required pursuant to this Article 7 ("Performance Assurance") to the other Party ("Compliant Party").
- (b) If Performance Assurance is required to be posted by a Party pursuant to the immediately preceding paragraph, the following Sections 7.3(b)(i) through 7.3(b)(iv) shall apply:
  - (i) The Compliant Party shall calculate its exposure under this Agreement as soon as practicable and on a weekly basis thereafter ("Performance Assurance Calculation Date").
  - (ii) All Performance Assurance shall be delivered in the form of: (i) U.S. Dollars delivered by wire transfer of immediately available funds ("Funds"); or (ii) a Letter of Credit from a Qualified Institution (as defined herein). For purposes of determining the amount of Performance Assurance held at any time, a Letter of Credit shall be valued at zero unless it expires more than thirty (30) days after the date of valuation. For purposes of this Agreement, the Parties acknowledge that any Performance Assurance provided by Buyer shall be in the form of Funds as defined in this Section 7.3. For purposes hereof, "Letter(s) of Credit" means one or more irrevocable, transferable standby letters of credit

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issued by a U.S. commercial bank or a U.S. branch of a foreign bank (which is not an affiliate of either Party) with such bank having a credit rating of at least A- from S&P and A3 from Moody's, having \$1,000,000,000 in assets (a "Qualified Institution"), and otherwise being in a form acceptable to the Party in whose favor the letter of credit is issued. Costs of a Letter of Credit shall be borne by the applicant for such Letter of Credit.

- (iii) For purposes hereof, it shall be a Letter of Credit Default ("Letter of Credit Default") with respect to an outstanding Letter of Credit, upon the occurrence of any of the following events: (i) the bank issuing the Letter of Credit shall fail to maintain a credit rating of at least "A-" by S&P and "A3" by Moody's, (ii) the bank issuing the Letter of Credit shall fail to comply with or perform its obligations under such Letter of Credit if such failure shall be continuing after the lapse of any applicable grace period; (iii) the bank issuing the Letter of Credit shall disaffirm, disclaim, repudiate or reject, in whole or in part, or challenge the validity of such Letter of Credit; (iv) such Letter of Credit shall fail or cease to be in full force and effect at any time during the term of any outstanding transaction; or (v) the pledgor or the bank issuing the Letter of Credit shall fail to cause the renewal or replacement of the Letter of Credit to the secured party at least thirty (30) Business Days prior to the expiration of such Letter of Credit; provided, however, that no Letter of Credit Default shall occur in any event with respect to a Letter of Credit after the time such Letter of Credit is required to be canceled or returned to the pledgor in accordance with the terms of this Agreement. If a Letter of Credit Default occurs, then the Party which applied for such Letter of Credit shall have five (5) Business Days to cure the event(s) causing the Letter of Credit Default or to replace the Letter of Credit with a substitute Letter of Credit or Funds. Any failure to cure the event(s) causing the Letter of Credit Default or to provide a substitute Letter of Credit or Funds within five (5) Business Days of the event(s) leading to the Letter of Credit Default shall be an Event of Default under Section 7.1(c)(iv).
- The Compliant Party will be entitled to hold posted Performance Assurance, provided that the following conditions applicable to it are satisfied: (1) the Compliant Party is not a defaulting Party; (2) the Compliant Party has and maintains an Investment Grade Credit Rating required in Section 7.3(a), as applicable; and (3) the posted Performance Assurance is held only in the United States. For funds held as Performance Assurance by the Compliant Party, the interest rate will be the Federal Funds Rate as from time to time in effect. "Federal Funds Rate" means, for the relevant determination date, the rate opposite the caption "Federal Funds (Effective)" as set forth in the weekly statistical release designated as H.15 (519), or any successor publication, published by the Board of Governors of the Federal Reserve System. Such interest shall be calculated commencing on the date Performance Assurance in the form of cash is received by a Party but excluding the earlier of: (i) the date Performance Assurance in the form of cash is returned to a Party; or (ii) the date Performance Assurance in the form of cash is applied to a pledgor's obligations pursuant to Section 7.3 with the net amount of interest accrued monthly being payable on the third Business Day of the following month. A Party holding Performance Assurance may apply such Performance Assurance, without prior notice to the other party, to satisfy the obligations of the other Party in accordance with Section 7.2. Each Party hereby covenants and agrees that it shall be entitled herein to hold posted Performance Assurance as custodian on its own behalf as a secured party if it meets

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the criteria set forth above in this Section 7.3. However, if the Party holding Performance Assurance is not eligible to hold posted Performance Assurance pursuant to this Section 7.3, then such Party shall be considered ineligible to hold posted Performance Assurance as a secured party and such posted Performance Assurance shall be maintained as follows: the ineligible secured party will cause all posted Performance Assurance received from the other Party to be segregated from the secured party's own property and identified clearly as Performance Assurance and to be held in an account in which no property of the secured party is held (a "Collateral Account") with a domestic office of a Qualified Institution, each of which accounts may include property of other parties which have delivered posted Performance Assurance to the secured party under other agreements, but will bear a title indicating that the secured party's interest in said account is as a holder of collateral. Such accounts will bear interest at the rate offered by the Qualified Institution. In addition, the secured party may direct the pledgor to transfer or deliver eligible Performance Assurance directly into the secured party's Collateral Account. The secured party shall cause statements concerning the posted Performance Assurance transferred or delivered by the pledgor to be sent to the pledgor on request, which may not be made more frequently than once in each calendar month.

- (c) Prior to the Commencement Date and at any time upon the request by Buyer of Seller or by Seller of Buyer and only if this information is not publicly available, the Party to whom the request is made shall establish that it meets the Credit Requirements by providing (x) a certificate of one of its authorized officers, accompanied by supporting certified financial statements and (y) documentation of its Credit Rating, as applicable. Buyer and Seller shall inform the other Party within one (1) Business Day of any failure to satisfy the Credit Requirements, provided that, in no event, shall the failure of a Party to provide the notice required pursuant to this sentence constitute a default or an Event of Default pursuant to Section 7.1.
- (d) Seller shall provide the Buyer with the Guaranty duly executed by the Guarantor along with supporting documentation demonstrating the authority of the signatory(ies) to execute and deliver such Guaranty within ten (10) Business Days of the date of this Agreement.

#### Section 7.4 Forward Contract

Each Party represents and warrants to the other that it is a "forward contract merchant" within the meaning of the United States Bankruptcy Code, that this Agreement is a "forward contract" within the meaning of the United States Bankruptcy Code, and that the remedies identified in this Agreement, including those specified in Section 7, shall be "contractual rights" as provided for in 11 U.S.C. § 556 as that provision may be amended from time to time.

#### ARTICLE 8. NOTICES, REPRESENTATIVES OF THE PARTIES

### Section 8.1 Notices

Any notice, demand, or request required or authorized by this Agreement to be given by one Party to another Party shall be in writing. It shall either be sent by facsimile (with receipt confirmed by telephone), courier, personally delivered (including overnight delivery service) or mailed, postage prepaid, email or similar means of recorded electronic communication, to the representative of the other Party designated in accordance with this Article. Any such notice, demand, or request shall

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be deemed to be given (i) when sent by facsimile confirmed by telephone, (ii) when actually received if delivered by courier or personal delivery (including overnight delivery service) or (iii) seven (7) days after deposit in the United States mail, if sent by first class mail return receipt requested.

Notices and other communications by Seller to the Buyer shall be addressed to:

Mr. Robert S. Furino Vice President Unitil Energy Systems, Inc. 6 Liberty Lane West Hampton, NH 03842 United States of America (603) 773-6452 (phone) (603) 773-6652 (fax) Email: Furino@unitil.com

and

Notices concerning Article 7 shall also be sent to:

Mr. Todd Diggins
Director of Finance
Unitil Energy Systems, Inc.
6 Liberty Lane West
Hampton, NH 03842
United States of America
(603) 773-6612 (phone)
(603) 773-6812 (fax)
Email: Diggins@unitil.com

Notices and other communications by the Buyer to Seller shall be addressed to:

Mr. Simon Bergevin General Manager H.Q. Energy Services (U.S.) Inc. 75, René-Lévesque West Boulevard, 18th Floor Montréal, Province of Québec, Canada H2Z 1A4 (514) 289-6978 (phone) (514) 289-6723 (fax)

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Email: Bergevin.Simon@hydro.qc.ca

Any Party may change its representative or coordinates for notices by written notice to the other Party; however such notice shall not be effective until it is received by the other Party.

## Section 8.2 <u>Authority of Representative</u>

The Parties' representatives shall have full authority to act for their respective Party in all matters relating to the performance of this Agreement. Notwithstanding the foregoing, a Party's representative shall not have the authority to amend, modify, or waive any provision of this Agreement unless they are duly authorized officers of their respective entities and such amendment, modification or waiver is made in accordance to Article 17.

#### ARTICLE 9. LIABILITY; INDEMNIFICATION; RELATIONSHIP OF PARTIES

## Section 9.1 Limitation on Consequential, Incidental and Indirect Damages

EXCEPT AS EXPRESSLY PROVIDED IN THIS AGREEMENT, TO THE FULLEST EXTENT PERMISSIBLE BY LAW, NEITHER THE BUYER NOR SELLER, NOR THEIR RESPECTIVE OFFICERS, DIRECTORS, AGENTS, EMPLOYEES, PARENT, SUBSIDIARIES OR AFFILIATES, SUCCESSORS OR ASSIGNS, OR THEIR RESPECTIVE OFFICERS, DIRECTORS, AGENTS, OR EMPLOYEES, SUCCESSORS, OR ASSIGNS, SHALL BE LIABLE TO THE OTHER PARTY OR ITS PARENT, SUBSIDIARIES, AFFILIATES, OFFICERS, DIRECTORS, AGENTS, EMPLOYEES, SUCCESSORS OR ASSIGNS, FOR CLAIMS, SUITS, ACTIONS OR CAUSES OF ACTION FOR INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES (INCLUDING ATTORNEY'S FEES OR LITIGATION COSTS EXCEPT AS EXPRESSLY PROVIDED IN CONNECTED RESULTING **FROM** WITH OR **PERFORMANCE** NON-PERFORMANCE OF THIS AGREEMENT, OR ANY ACTIONS UNDERTAKEN IN CONNECTION WITH OR RELATED TO THIS AGREEMENT, INCLUDING ANY SUCH DAMAGES WHICH ARE BASED UPON CAUSES OF ACTION FOR BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND MISREPRESENTATION), BREACH OF WARRANTY, STRICT LIABILITY, STATUTE, OPERATION OF LAW, OR ANY OTHER THEORY OF RECOVERY. THE PROVISIONS OF THIS SECTION SHALL APPLY REGARDLESS OF FAULT AND SHALL SURVIVE TERMINATION, CANCELLATION, SUSPENSION, COMPLETION OR EXPIRATION OF THIS AGREEMENT.

#### Section 9.2 Indemnification

(a) Seller agrees to defend, indemnify and save the Buyer, its officers, directors, employees, agents, successors assigns, and Affiliates and their officers, directors, employees and agents harmless from and against any and all third-party claims, suits, actions or causes of action and any resulting losses, damages, charges, costs or expenses, (including reasonable attorneys' fees and court costs), arising from or in connection with any (a) breach of a representation or warranty or failure to perform any covenant or agreement in this Agreement by Seller, (b) any violation of applicable law, regulation or order by Seller, (c) any act or omission by Seller with respect to this

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Agreement, first arising, occurring or existing during the term of this Agreement, whether incurred by settlement or otherwise, and whether such claims or actions are threatened or filed prior to or after the termination of this Agreement, except to the extent caused by an act of gross negligence or willful misconduct by an officer, director, agent, employee, or Affiliate of the Buyer or its respective successors or assigns.

- (b) The Buyer agrees to defend, indemnify and save Seller, its officers, directors, employees, agents, successor, assigns, and Affiliates and their officers, directors, employees and agents harmless from and against any and all third-party claims, suits, actions or causes of action and any resulting losses, damages, charges, costs or expenses, (including reasonable attorneys' fees and court costs), arising from or in connection with any (a) breach of representation or warranty or failure to perform any covenant or agreement in this Agreement by said Buyer, (b) any violation of applicable law, regulation or order by said Buyer, (c) any act or omission by the Buyer, with respect to this Agreement first arising, occurring or existing during the term of this Agreement, whether incurred by settlement or otherwise, and whether such claims or actions are threatened or filed prior to or after the termination of this Agreement, except to the extent caused by an act of gross negligence or willful misconduct by an officer, director, agent, employee or Affiliate of Seller or its respective successors or assigns.
- (c) If any Party intends to seek indemnification under this Section from the other Party with respect to any action or claim, the Party seeking indemnification shall give the other Party notice of such claim or action within thirty (30) days of the later of the commencement of, or actual knowledge of, such claim or action; provided, however, that in the event such notice is delivered more than thirty (30) days after the Party seeking indemnification knows of such claim or action, the indemnifying Party shall be relieved of its indemnity hereunder only if and to the extent such indemnifying Party was actually prejudiced by the delay. The Party seeking indemnification shall have the right, at its sole cost and expense, to participate in the defense of any such claim or action. The Party seeking indemnification shall not compromise or settle any such claim or action without the prior consent of the other Party, which consent shall not be unreasonably withheld, delayed or conditioned.

## Section 9.3 <u>Independent Contractor Status</u>

Nothing in this Agreement shall be construed as creating any relationship between the Buyer and Seller other than that of independent contractors for the sale and delivery of Requirements for Default Service. Neither Party shall be deemed to be the agent of the other Party for any purpose by reason of this Agreement, and no partnership or joint venture or fiduciary relationship between the Parties is intended to be created hereby.

#### Section 9.4 Title; Risk of Loss

Title to and risk of loss related to the energy component of the Requirements shall transfer from Seller to Buyer at the Delivery Point.

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#### ARTICLE 10. ASSIGNMENT

#### Section 10.1 General Prohibition Against Assignments

Except as provided in Section 10.2, neither Party shall assign, pledge or otherwise transfer this Agreement or any right or obligation under this Agreement without first obtaining the other Party's written consent, which consent shall not be unreasonably withheld, delayed or conditioned.

## Section 10.2 <u>Exceptions to Prohibition Against Assignments</u>

- (a) Seller may, without the Buyer's prior written consent, collaterally assign this Agreement in connection with financing arrangements provided that any such collateral assignment that provides for the Buyer to direct payments to the collateral agent (i) shall be in writing, (ii) shall not be altered or amended without prior written notice to the Buyer from both Seller and the collateral agent, and (iii) provided that any payment made by the Buyer to the collateral agent shall discharge the Buyer's obligation as fully and to the same extent as if it had been made to the Seller. Seller must provide the Buyer at least ten (10) days advance written notice of collateral assignment and provide copies of any such assignment and relevant agreements or writings.
- (b) Each Party may assign all or a portion of its rights and obligations under this Agreement to any Affiliate of such Party without consent of the other Party, provided that such Affiliate agrees in writing to assume the rights and obligations hereunder and be bound by the terms hereof and provided further, that such Affiliate's creditworthiness is equal to or higher than that of the Buyer or Seller, as applicable, at the time this Agreement was executed, in which case the Buyer or the Seller, as applicable, shall be relieved of any obligation or liability hereunder as a result of such assignment.
- (c) Either Party may, upon written notice to the other Party, assign its rights and obligations hereunder, or transfer such rights and obligations by operation of law, to any entity with which or into which such Party shall merge or consolidate or to which such Party shall transfer all or substantially all of its assets, provided that such other entity agrees in writing to assume the rights and obligations hereunder and be bound by the terms hereof and provided further, that such other entity's creditworthiness is equal to or higher than that of the assignor at the time this Agreement was executed, in which case the assignor shall be relieved of any obligation or liability hereunder as a result of such assignment.

#### ARTICLE 11. SUCCESSORS AND ASSIGNS

This Agreement shall inure to the benefit of and shall be binding upon the Parties hereto and their respective successors and permitted assigns.

## ARTICLE 12. FORCE MAJEURE

(a) Force Majeure shall include but not be limited to acts of God, earthquakes, fires, floods, storms, strikes, labor disputes, riots, insurrections, acts of war (whether declared or otherwise), acts of governmental, regulatory or judicial bodies, but if and only to the extent that such event or circumstance it is not within the reasonable control of, or the result of the negligence of, the claiming Party, and which, by the exercise of due diligence, the claiming Party is unable to overcome or avoid or cause to be avoided. Force Majeure shall not be based on (A) fluctuations in

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Default Service, (B) the cost to a Party to overcome or avoid, or cause to be overcome or avoided, the event or circumstance affecting such Party's performance or (C) events affecting the cost of operating any generating facility. For greater certainty, a Party shall not be entitled to invoke Force Majeure for any obligation of payment under this Agreement.

- (b) To the extent that either Party is prevented by Force Majeure from carrying out, in whole or in part, its obligations hereunder and (i) such Party gives notice and detail of the Force Majeure to the other Party as soon as practicable after the onset of the Force Majeure, including an estimate of its expected duration and the probable impact on the performance of its obligations hereunder; (ii) the suspension of performance is of no greater scope and of no longer duration than is required by the Force Majeure, and (iii) the Party claiming Force Majeure uses commercially reasonable efforts to remedy or remove the inability to perform caused by Force Majeure, then the affected Party shall be excused from the performance of its obligations prevented by Force Majeure. However, neither Party shall be required to pay for any obligation the performance of which is excused by Force Majeure. This paragraph shall not require the settlement of any strike, walkout, lockout or other labor dispute on terms which, in the sole judgment of the Party involved in the dispute are contrary to its interest. It is understood and agreed that the settlement of strikes, walkouts, lockouts or other labor disputes shall be entirely within the discretion of the Party involved in the dispute.
- (c) No obligations of either Party which arose before the Force Majeure occurrence causing the suspension of performance shall be excused as a result of the Force Majeure.
- (d) Prior to the resumption of performance suspended as a result of a Force Majeure occurrence, the Party claiming the Force Majeure shall give the other Party written notice of such resumption.

#### ARTICLE 13. WAIVERS

No delay or omission in the exercise of any right under this Agreement shall impair any such right or shall be taken, construed or considered as a waiver or relinquishment thereof, but any such right may be exercised from time to time and as often as may be deemed expedient. The waiver of any single breach or default of any term or condition of this Agreement shall not be deemed to constitute the waiver of any other prior or subsequent breach or default of the Agreement or any other term or condition.

#### ARTICLE 14. LAWS AND REGULATIONS

- (a) This Agreement and all rights, obligations, and performances of the Parties hereunder, are subject to all applicable federal and state laws, and to all duly promulgated orders and other duly authorized action of governmental authorities having jurisdiction hereof.
- (b) The rates, terms and conditions contained in this Agreement are not subject to change under Section 205 of the Federal Power Act as that section may be amended or superseded, absent the mutual written agreement of the Parties. To the fullest extent permissible by law, (A) each Party irrevocably waives its rights, including its rights under §§ 205-206 of the Federal Power Act, unilaterally to seek or support a change in the rate(s), charges, classifications, terms or conditions of this Agreement or any other agreements entered into in connection with this Agreement and (B)

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each Party expressly waives its right to seek or support: (i) an order from FERC finding that the market-based rate(s), charges, classifications, terms or conditions agreed to by the Parties in the Agreement are unjust and unreasonable; or (ii) any refund with respect thereto. Each Party agrees not to make or support such a filing or request, and that these covenants and waivers shall be binding notwithstanding any regulatory or market changes that may occur hereafter.

(c) absent the mutual written agreement of the Parties to a proposed change, the standard of review for changes to this Agreement proposed by a non-party or the Commission acting *sua sponte* shall be the "public interest" standard of review set forth in United Gas Pipe Line Co. v. Mobile Gas Service Corp., 350 U.S. 332 (1956) and Federal Power Commission v. Sierra Pacific Power Co., 350 U.S. 348 (1956) (the "Mobile-Sierra" doctrine).

## ARTICLE 15. INTERPRETATION, DISPUTE RESOLUTION

## Section 15.1 Governing Law

The Agreement shall be governed by and construed and performed in accordance with the laws of the State of New Hampshire, United States of America, without giving effect to its conflict of laws principles.

## Section 15.2 <u>Dispute Resolution</u>

All disputes between the Buyer and Seller under this Agreement shall be referred, upon notice by one Party to the other Party, to a senior manager of Seller designated by Seller, and a senior manager of the Buyer designated by the Buyer, for resolution on an informal basis as promptly as practicable. In the event the designated senior managers are unable to resolve the dispute within ten (10) days of receipt of the notice, or such other period to which the Parties may jointly agree, such dispute shall be submitted to arbitration and resolved in accordance with the arbitration procedure set forth in this Section. The arbitration shall be conducted in Concord, New Hampshire before a single neutral arbitrator mutually agreed to and appointed by the Parties. If the Parties fail to agree upon a single arbitrator within ten (10) days of the referral of the dispute to arbitration, Seller and the Buyer shall each choose one arbitrator, who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within ten (10) days select a third arbitrator to act as chairman of the arbitration panel. In either case, the arbitrator(s) shall be knowledgeable in electric utility matters, including wholesale power transactions and power market issues, and shall not have any current or past material business or financial relationships with either Party or a witness for either Party and shall not have a direct or indirect interest in any Party or the subject matter of the arbitration. The arbitrator(s) shall afford each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the thencurrent arbitration rules of the CPR Institute for Dispute Resolution (formerly known as the Center for Public Resources), unless otherwise mutually agreed by the Parties. There shall be no formal discovery conducted in connection with the arbitration unless otherwise mutually agreed by the Parties; provided, however, that the Parties shall exchange witness lists and copies of any exhibits that they intend to utilize in their direct presentations at any hearing before the arbitrator(s) at least ten (10) days prior to such hearing, along with any other information or documents specifically requested by the arbitrator(s) prior to the hearing. Any offer made and the details of any negotiations to resolve the dispute shall not be admissible in the arbitration or otherwise. Unless otherwise agreed, the arbitrator(s) shall render a decision within

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ninety (90) days of his, her or their appointment and shall notify the Parties in writing of such decision and the reasons therefore, and shall make an award apportioning the payment of the costs and expenses of arbitration among the Parties; provided, however, that each Party shall bear the costs and expenses of its own attorneys, expert witnesses and consultants unless the arbitrator(s), based upon a determination of good cause, awards attorneys fees and legal and other costs to the prevailing Party. The arbitrator(s) shall be authorized only to interpret and apply the provisions of this Agreement and shall have no power to modify or change the Agreement in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction, subject expressly to Section 15.3. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards set forth in the Federal Arbitration Act and/or the Administrative Dispute Resolution Act. Nothing in this paragraph shall impair the ability of a Party to exercise any right or remedy it has under this Agreement, including those in Article 7.

#### Section 15.3 Venue; Waiver of Jury Trial

EACH PARTY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY SUIT, ACTION OR PROCEEDING RELATING TO THIS AGREEMENT.

#### ARTICLE 16. SEVERABILITY

Any provision declared or rendered unlawful by any applicable court of law or regulatory agency or otherwise or deemed unlawful because of a statutory change will not otherwise affect the remaining provisions and lawful obligations that arise under this Agreement. If any provision of this Agreement, or the application thereof to any Party or any circumstance, is invalid or unenforceable, (a) a suitable and equitable provision shall be substituted therefor in order to carry out, so far as may be valid and enforceable, the intent and purpose of such invalid or unenforceable provision, and (b) the remainder of this Agreement and the application of such provision or circumstances shall not be affected by such invalidity or unenforceability.

#### ARTICLE 17. MODIFICATIONS

No modification or amendment of this Agreement will be binding on any Party unless it is in writing and signed by both Parties.

**Execution Copy** Draft for Review by UES

Date: March 23, 2022

#### ARTICLE 18. ENTIRE AGREEMENT

This Agreement, including the Appendices, the tariffs and agreements referred to herein or therein, embody the entire agreement and understanding of the Parties in respect of the transactions contemplated by this Agreement. There are no restrictions, promises, representations, warranties, covenants or undertakings, other than those expressly set forth or referred to herein or therein. It is expressly acknowledged and agreed that there are no restrictions, promises, representations, warranties, covenants or undertakings contained in any material provided or otherwise made available by the Seller or the Buyer to each other. This Agreement supersedes all prior agreements and understandings between the Parties with respect to the transactions contemplated hereby.

#### ARTICLE 19. COUNTERPARTS

This Agreement may be executed in any number of counterparts, and each executed counterpart shall have the same force and effect as an original instrument.

## ARTICLE 20. INTERPRETATION; CONSTRUCTION

The article and section headings contained in this Agreement are solely for the purpose of reference, are not part of the agreement of the Parties and shall not in any way affect the meaning or interpretation of this Agreement. For purposes of this Agreement, the term "including" shall mean "including, without limitation". The Parties acknowledge that, each Party and its counsel have reviewed and or revised this Agreement and that any rule of construction to the effect that any ambiguities are to be resolved against the drafting Party shall not be employed in the interpretation of this Agreement, and it is the result of joint discussion and negotiation.

## ARTICLE 21. REPRESENTATIONS; WARRANTIES AND COVENANTS

Each Party represents to the other Party, upon execution and continuing throughout the Term of this Agreement, as follows:

- (a) It is duly organized in the form of business entity set forth in the first paragraph of this Agreement, validly existing and in good standing under the laws of its state of its organization and has all requisite power and authority to carry on its business as is now being conducted, including all regulatory authorizations as necessary for it to legally perform its obligations hereunder.
- (b) It has full power and authority to execute and deliver this Agreement and to consummate and perform the transactions contemplated hereby. This Agreement has been duly and validly executed and delivered by it, and, assuming that this Agreement constitutes a valid and binding agreement of the other Party, constitutes its valid and binding agreement, enforceable against it in accordance with its terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and similar laws of general applicability relating to or affecting creditors' rights and to general equity principles.
- (c) Such execution, delivery and performance do not violate or conflict with any law applicable to it, any provision of its Governing Documents, or the terms of any note, bond, mortgage, indenture, deed of trust, license, franchise, permit, concession, contract, lease or other instrument to which it is bound, any order or judgment of any court or other agency of government

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Date: March 23, 2022

applicable to it or any of its assets or any contractual restriction binding on or affecting it or any of its assets.

- (d) Subject to Section 3.8, no declaration, filing with, notice to, or authorization, permit, consent or approval of any governmental authority is required for the execution and delivery of this Agreement by it or the performance by it of its obligations hereunder, other than such declarations, filings, registrations, notices, authorizations, permits, consents or approvals which, if not obtained or made, will not, in the aggregate, have a Material Adverse Effect.
- (e) Neither the execution and delivery of this Agreement by it will nor the performance by it of its obligations under this Agreement will or does (i) conflict with or result in any breach of any provision of its Governing Documents, (ii) result in a default (or give rise to any right of termination, cancellation or acceleration) under any of the terms, conditions or provisions of any note, bond, mortgage, indenture, license, agreement or other instrument or obligation to which it or any of its subsidiaries is a party or by which it or any of its subsidiaries is bound, except for such defaults (or rights of termination, cancellation or acceleration) as to which requisite waivers or consents have been obtained or which, in the aggregate, would not have a Material Adverse Effect; or (iii) violate any order, writ, injunction, decree, statute, rule or regulation applicable to it, which violation would have a Material Adverse Effect.
- (f) There are no claims, actions, proceedings or investigations pending or, to its knowledge, threatened against or relating to it before any governmental authority acting in an adjudicative capacity relating to the transactions contemplated hereby that could have a Material Adverse Effect. It is not subject to any outstanding judgment, rule, order, writ, injunction or decree of any court or governmental authority which, individually or in the aggregate, would create a Material Adverse Effect.
- (g) There are no bankruptcy, insolvency, reorganization, receivership or other similar proceedings pending or being contemplated by it, or of its knowledge threatened against it.
- (h) It is a signatory to the Market Participant Service Agreement and is in compliance with all ISO Rules, including the ISO Financial Assurance Policy.
- (i) It is acting for its own account, has made its own independent decision to enter into this Agreement and as to whether this Agreement is appropriate or proper for it based upon its own judgment, is not relying upon the advice or recommendations of the other Party hereto, and is capable of assessing the merits of and understanding, and understands and accepts, the terms, conditions and risks of this Agreement.

### ARTICLE 22. CONSENTS AND APPROVALS

The Parties shall cooperate so that each Party may take such actions as necessary and required for the other Party to effectuate and comply with this Agreement including to (i) promptly prepare and file all necessary documentation, (ii) effect all necessary applications, notices, petitions and filings and execute all agreements and documents, and (iii) use all commercially reasonable efforts to obtain all necessary consents, approvals and authorizations of all other entities, in the case of each of the foregoing clauses (i), (ii) and (iii), necessary or advisable to consummate the transactions contemplated by this Agreement. Each Party shall have the right to review and approve in advance all characterizations of the information relating to the transactions contemplated by this

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Date: March 23, 2022

Agreement which appear in any filing, press release or public announcement made by the other Party in connection with the transactions contemplated hereby.

#### ARTICLE 23. CONFIDENTIALITY

Seller acknowledges that Seller's identity will be publicly disclosed in the NHPUC order approving or denying the Buyer's inclusion in retail rates of the amounts payable by Buyer to Seller under this Agreement as described in Section 3.8. Neither Seller nor the Buyer shall provide copies of this Agreement or disclose verbally or in writing the terms and conditions of this Agreement (the "Confidential Terms") to any person or any third party without the prior written consent of the other Party; provided, however, that either Party may provide a copy of the Confidential Terms, in whole or in part to (1) any regulatory agency requesting and/or requiring such Confidential Terms or as otherwise required by applicable law, regulation or order, provided that any such disclosure must include a request for confidential treatment by such regulatory agency of the Confidential Terms, and (2) an Affiliate if related to the Party's performance of its obligations hereunder, provided that such Affiliate agrees to treat the Confidential Terms as confidential in accordance with this clause. In the event that either Party is requested or required to disclose any Confidential Terms pursuant to subsection (1) above, the disclosing Party shall provide the other Party with prompt written notice of any such request or requirement, so that the other Party may seek an appropriate protective order, other confidentiality arrangement or waive compliance with the provisions of this Agreement. If, failing the entry of a protective order, other confidentiality arrangement or the receipt of a waiver hereunder, the disclosing Party, in the opinion of counsel, is compelled to disclose the Confidential Terms, the disclosing Party may disclose that portion of the Confidential Terms which the disclosing Party's counsel advises that the disclosing Party is compelled to disclose; provided, that any such disclosure includes a request for confidential treatment of this Agreement and the request for redaction of the Confidential Terms from the copies of this Agreement which are placed in the public record or otherwise made available. The Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation. In addition to the foregoing, the disclosing Party shall indemnify, defend and hold harmless the other Party from and against any claims, threatened or filed, and any losses, damages, expenses, attorneys' fees or court costs incurred by such Party in connection with or arising directly or indirectly from or out of the disclosing Party's disclosure of the Confidential Terms to third parties except as permitted pursuant to this paragraph.

[Remainder of Page Intentionally Left Blank]

**Execution Copy Draft for Review by UES** 

Date: March 23, 2022

IN WITNESS WHEREOF, the Parties have caused their duly authorized representatives to execute this Agreement on their behalf as of the date first above written.

JNIT	TIL ENERGY SYSTEMS, INC.
3Y:	
	Robert S. Furino
	Vice President
H.Q.	ENERGY SERVICES (U.S.) INC.
3Y: _	
	Simon Bergevin
	General Manager

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Date: March 23, 2022

#### APPENDIX A

# Service Requirements Matrix By Service Requirement, Load Asset Name and ID, Load Responsibility, and Applicable Period

Pursuant to Buyer's RFP issued on March 3 February 22, 2020 2022

Service Requirement	Load Asset Name and ID	Load Responsibility	From	To (and including)
UES Small Default Load	Small Customer Group, 11451	<del>N/A</del> 100%	N/AJune 1, 2022	N/A November 30, 2022
UES Medium Default Load	Medium Customer Group, 11452	<del>N/A</del> 100%	N/AJune 1, 2022	N/A November 30, 2022
UES Large Default Load Customer Group	UES Large Customer Group, 10019	-100% <u>N/A</u>	June 1, 2020 <u>N/A</u>	November 30, 2020 N/A

Redacted

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Date: March 23, 2022

#### APPENDIX B

#### Monthly Contract Rate by Service Requirement Dollars per MWh

Pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	N/A JUN-2022	N/A JUL-2022	N/A AUG- 2022	N/A SEP-2022	N/A OCT-2022	N <del>/A</del> OV-2022
100% UES Small Customer Group (6 months)						
Service Requirement	N/A JUN-2022	N/A JUL-2022	N/A AUG- 2022	N/A SEP-2022	N/A OCT-2022	N <del>/A</del> OV-2022
100% UES Medium Customer Group ([TDB]6 months)						

Date: March 23, 2022

#### **APPENDIX C**

# POINTS OF INTERCONNECTION, REFERRED TO AS DELIVERY POINT

<b>Points of Interconnection</b>	Nominal Delivery Voltage	Metering Point	<u>Nominal</u> <u>Metering Voltage</u>
Garvins (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV
New Hampshire Hydro			
Lower Penacook Falls (2)	3φ, 4 wire, 19.9/34.5 kV	At Connection Point	3φ, 4 wire, 19.9/34.5 kV
Upper Penacook Falls (2)	3φ, 4 wire, 19.9/34.5 kV	At Connection Point	3φ, 4 wire, 19.9/34.5 kV
Briar Hydro (2)	3φ, 4 wire, 19.9/34.5 kV	At Connection Point	3φ, 4 wire, 19.9/34.5 kV
SES Concord Company L.P. (2)	3φ, 4 wire, 19.9/34.5 kV	At Connection Point	3φ, 4 wire, 19.9/34.5 kV
Broken Ground	3φ, 115 kV	At Curtisville Sending Point	3φ, 115 kV
Penacook (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV
Guinea (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV

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Date: March 23, 2022

Kingston (1)	3φ,	At Peaslee	3ф,
	115 kV	Sending Point	115 kV
Timber Swamp (1)	3φ, 4 wire,	At Delivery Point	3φ, 4 wire,
	19.9/34.5 kV		19.9/34.5 kV
Great Bay (1)	3φ, 4 wire,	At Delivery Point	3φ, 4 wire,
	19.9/34.5 kV		19.9/34.5 kV

# AMENDMENT No. OF

#### POWER SALES AGREEMENT

This Amendment No. ("Amendment No. "), dated and effective as of March 23, 2022 (the "Effective Date"), amends the Power Sales Agreement, dated (the "Agreement") between UNITIL ENERGY SYSTEMS, INC. ("Buyer") and NextEra Energy Marketing, LLC ("Seller") (collectively, the "Parties").

Notwithstanding Article 21(d) of the Agreement or anything else to the contrary in either this Amendment No. or the Agreement, the Parties' obligations under this Amendment No are subject to Buyer obtaining approval from the NHPUC of the inclusion in retail rates of the amounts payable by Buyer to Seller under this Amendment No. without material modification to the obligations of either Party under this Amendment No. Buyer shall use its best efforts to obtain prompt approval of such rates. If Buyer is unable to obtain NHPUC approval by April 8, 2022, Buyer and Seller agree to review the status of such approval process and determine whether to continue to pursue the transaction contemplated in this Amendment No. If the Parties cannot agree as to how to continue such transaction, this Amendment No. shall terminate and be null and void without liability to either Party.

Buyer shall bear the cost of the NHPUC filing described above except for any costs associated with Seller's intervention. Buyer shall request that the NHPUC give confidential treatment to the terms of this Amendment No. , which is the result of a competitive solicitation held by Buyer.

The Parties hereby agree to further amend the Agreement as follows:

- 1. Appendix A is amended as attached hereto. The amendment adds a new section reflecting the results of the RFP issued by Buyer on February 22, 2022.
- 2. Appendix B is amended as attached hereto. The amendment adds pricing associated with the results of the RFP issued by Buyer on February 22, 2022.
- 3. Appendix B indicates that the prices listed for the Large Customer Group are Fixed Monthly Adders, therefore the Contract Rate will be calculated as the sum of the Average Weighted RT LMP and the Fixed Monthly Adder as shown in Equation 1. The Average Weighted RT LMP is calculated in accordance with Equation 2.

#### **Equation 1**

Contract Rate = Average Weighted RT LMP + Fixed Monthly Adder

The Average Weighted RT LMP shall be calculated using the MWH of Delivered Energy reported for the Large Customer Group default service load asset, Load Asset number 10019, and the hourly real time locational marginal prices ("RT

Amendment No. dated March 23, 2022 to Power Sales Agreement dated

Page 1 of 6

Docket No. DE 22-017 Exhibit 2 Redacted

LMP") for the settlement location of Load Asset 10019, which is currently the New Hampshire Load Zone (4002). The Average Weighted RT LMP equals the sum of the products of the RT LMP and the Delivered Energy (MWH) of Load Asset 10019 in each hour of the month of service, divided by the sum of Delivered Energy (MWH) of Load Asset 10019 for the month of service, as shown in Equation 2.

#### **Equation 2**

 $Average \ Weighted \ RT \ LMP \\ = \frac{Sum \ [hourly \ RT \ LMP \ * \ hourly \ Delivered \ Energy \ (MWH) \ of \ Load \ Asset \ 10}{Sum \ [hourly \ Delivered \ Energy \ (MWH) \ of \ Load \ Asset \ 10019]}$ 

The Large Customer Group prices listed in Appendix B are Fixed Monthly Adders requiring the Contract Rate to be calculated as described in Equation 1 and Equation 2, and the Contract Rate will be determined and affirmed by both Buyer and Seller by the third business day following the month of service. Once agreed upon, the Contract Rate for the month of service shall be final and shall not be subject to change in the event that either the New Hampshire RT LMP or the Delivered Energy (MWH) of Load Asset 10019 are subsequently revised or restated.

Amendment No. dated March 23, 2022 to Power Sales Agreement dated

Page 2 of 6

IN WITNESS WHEREOF, the Parties have caused their duly authorized representatives to execute and deliver this Amendment No. to the Agreement effective as of the Effective Date.

Unit	il Energy Systems, Inc.	
BY:		
	Robert S. Furino	
	Vice President	
	Era Energy Marketing, LLC	
Its		_

Amendment No. dated March 23, 2022 to Power Sales Agreement dated

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#### APPENDIX A

# Service Requirements Matrix By Service Requirement, Load Asset Name and ID, Load Responsibility, and Applicable Period

[List All Active Transactions]

#### For service pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	Load Asset Name and ID	Load Responsibility	Schedule 1	Schedule 2
UES Small Default Load	Small Customer Group, 11451	100%	June 1, 2022	November 30, 2022
UES Medium Default Load	Medium Customer Group, 11452	100%	June 1, 2022	November 30, 2022
UES Large Customer Group	UES Large Default Load, 10019	100%	June 1, 2022	November 30, 2022

Amendment No. dated March 23, 2022 to Power Sales Agreement dated

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Docket No. DE 22-017 Exhibit 2 Redacted

#### APPENDIX B

#### Monthly Contract Rate by Service Requirement Dollars per MWh

# [List All Active Transactions] For service pursuant to Buyer's RFP issued on **August 31, 2021**

Service Requirement	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22		
100% UES Small Customer Group (6 months)								
Service Requirement	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22		
100% UES Medium Customer Group (6 months)								
The following are Fixed Monthly Adders.								
Please refer to Section 5.1 for calculation of Contract Rate								

The following are Fixed Monthly Adders.  Please refer to Section 5.1 for calculation of Contract Rate								
Service Requirement Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22								
100% UES Large Customer Group (6 months)								

Amendment No. dated March 23, 2022 to Power Sales Agreement dated

Page 5 of 6

#### For service pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Small Customer Group (6 months)						

Service Requirement	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Medium Customer Group (6 months)						

The following are Fixed Monthly Adders.  Please refer to Section 5.1 for calculation of Contract Rate								
Service Requirement	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22		
100% UES Large Customer Group (6 months)								

Amendment No. dated March 23, 2022
to Power Sales Agreement dated
Page 6 of 6

### Unitil Energy Systems, Inc. ("UES")

## Default Service Request for Proposals

## **UES Service Requirements**

Small Customers (100%): June 1, 2022 – November 30, 2022

Medium Customers (100%): June 1, 2022 – November 30, 2022

Large Customers (100%): June 1, 2022 – November 30, 2022

Issue Date: February 22, 2022

## Unitil Energy Systems, Inc. ("UES")

## Default Service Request for Proposals Table of Contents

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# Request for Proposals To Provide Default Service Supply To All Customers of Unitil Energy Systems, Inc

#### I. Introduction

Unitil Energy Systems, Inc. ("UES") is a local electric distribution company located in New Hampshire. New Hampshire Legislation, RSA 374-F et seq., and the Settlement Agreement for Restructuring the Unitil Companies<sup>1</sup> ("Settlement Agreement") provided retail access for all of UES' retail customers beginning on May 1, 2003.

On September 9, 2005, the NHPUC approved UES' plan for procurement of default service supply, including the solicitation process, for the period beginning May 1, 2006<sup>2</sup>. Subsequently, on July 31, 2012, the NHPUC approved modifications to the timing and structure of UES' default service procurement plan, for the period beginning November 1, 2012<sup>3</sup>. Pursuant to these Orders, UES procures the power supply required to meet its default service obligations for three customer groups comprised of small, medium and large customers through full requirements contracts for 100% of the service requirements for six month contract periods.

Via this request for proposals ("RFP"), UES seeks competing fixed monthly price offers for 100% of the load requirements of its small and medium customer groups for the six month period beginning June 1, 2022. UES also seeks variable monthly price offers, as defined herein, for 100% of the load requirements of its large customer group for the six month period beginning June 1, 2022. Variable monthly prices are comprised of a pass-through of energy costs at the real-time locational marginal price ("LMP") plus fixed monthly adders, which respondents are asked to bid during the RFP process. The fixed adders are intended to cover all non-energy costs, including capacity, ancillary services, and administration charges. Please see the Proposed Pricing portion of Section V for more information.

This RFP provides background information and historical data, details the service requirements and commercial terms, and elaborates on the procedures to be employed by UES to select the winning suppliers. The complete RFP is available as a single ZIP file ("UES\_DS\_RFP\_Package\_2022-02.zip"). In addition, the RFP and its appendices, including the submission form, proposed contract, non-disclosure agreement, as well as the pricing bid sheets have been included as separate, editable electronic files. A number of electronic data files have also been included in Microsoft Excel format. The contents of each file are described in this document. Please contact Jeff Pentz at (603) 773-6473 or at pentzj@unitil.com with any questions regarding these materials.

<sup>&</sup>lt;sup>1</sup> See Docket DE 01-247.

<sup>&</sup>lt;sup>2</sup> See Docket DE 05-064.

<sup>&</sup>lt;sup>3</sup> See Docket DE 12-003.

#### II. Description of Default Service

UES is soliciting load-following power supply offers to meet the needs of its customers who take service under its default service tariff for the periods listed in the table in the Supply Obligation Period portion of Section IV. Default service is the only utility-provided supply service and will be available to all UES customers not receiving supply service from a competitive supplier at any time for any reason.

For the purpose of default service procurement, the specified customer groups shall consist of the various rate classes listed in the table below. The default service loads associated with these customer groups are modeled in the ISO Settlement System using the load asset numbers listed in the table. Bidding power suppliers ("Respondents") may submit bids to provide service to any or all customer groups for which a contract is sought via this RFP. Bids to supply each customer group will be evaluated and awarded separately.

<b>Load Asset Description</b>	<b>Customer Rate Classes</b>	Load Asset #
UES Small Default Load	D	11451
UES Medium Default Load	G2, OL	11452
UES Large Default Load	G1	10019

The amount of default service to be supplied by the winning bidder(s) will be determined in accordance with the retail load associated with those customers who rely on default service. UES cannot predict the number of customers that will rely on default service, how much load will be represented by these customers, or how long they will continue to take default service. UES expressly reserves the right to encourage customers to choose their own supplier from the competitive marketplace instead of taking default service.

#### **Data Provided**

To assist respondents in determining the potential load requirements, a variety of data has been provided with this RFP. The provided data includes the following:

Historical Hourly Loads and Capacity Tag Values are provided for the default service loads by customer group and in aggregate for competitive generation service loads. The hourly loads are measured at the PTF level and are provided for the period of January 1, 2016 through January, 2022. The capacity tag values are the daily sum of the capacity tags for all customers assigned to the supply service being reported. Please see the file named "UES\_Historic\_Hourly\_Loads\_Cap\_Tags\_2022-02.xls."

<u>Historic Retail Monthly Sales Report</u> provides monthly sales data from January 2016 through January 2022 have been compiled and provided. The retail sales report documents retail sales and customer counts by customer rate class and supply type: default service or competitive generation. Please see the file named "UES Retail Sales Report 2022-02.xls."

<u>Class Average Load Shapes</u> (8760 hours), as measured at the customer meter level, are available. Please see the file named "UES Profiles 2022-02.xls."

<u>Distribution System Loss Factor</u> for each rate class is shown in the following table. The distribution loss factors enable one to estimate the retail usage at the customer meter associated with a given quantity of wholesale supply, or to convert the class average load shapes to wholesale values. Please note that the supplies sought via this RFP will be wholesale supplies measured at the PTF level.

<b>Customer Group</b>	Rate Class	<b>Distribution Loss Factor</b>
Small Customers	D (Domestic)	6.468%
Medium Customers	G2 (Regular General)	6.392%
Medium Customers	OL (Outdoor Lighting)	6.468%
Large Customers	G1 (Large General)	4.591%

Evaluation Loads that UES will use to calculate weighted average prices of bids received from respondents for the purpose of comparing competing bids on the basis of price are provided. These estimated loads may be instructive to respondents, but should in no way be construed to represent any contract quantity or billing determinant or to create any obligation to any party. Evaluation Loads are included on the bid sheets. Please see the file named "UES\_Bid\_Form\_2022-02.xls."

#### **III.** General Provisions

#### Terms and Conditions

For the small and medium customer group default service loads that respondents choose to bid, respondents must offer fixed monthly prices, and for the large customer default service load respondents must offer variable prices in the form of fixed monthly adders to the NH load zone RT LMP for the entire supply periods listed in the table in the Supply Obligation Period portion of Section IV, and shown on the bid sheets. Pricing requirements are further detailed in the Proposed Pricing portion of Section V.

#### **Power Supply Contract**

Along with this RFP, UES has provided a proposed Power Sales Agreement ("PSA") which details the contractual terms and conditions under which default service as sought herein will be provided. Respondents who have not previously signed a PSA, or who do not wish to amend a prior PSA, must execute the PSA in Appendix B ("App B UES Power Sales Agreement 2022-02.doc").

Respondents who have previously executed a PSA with UES for the provision of Default Service supply may amend their existing PSA with UES in order to implement the proposed transaction. UES has provided a proposed PSA Amendment in Appendix B1 ("App\_B1\_UES\_PSA\_Amendment\_2022-02.doc").

Bidders may propose contract language modifications. UES will consider proposed contract language modifications to the extent the language clarifies each party's obligations associated with the transactions sought under this solicitation process, and to the extent that any modified contract represents the best non-price terms each party is willing to offer UES.

The obligations of UES and the winning bidder(s) are subject to and conditioned upon NHPUC approval of the solicitation results and the inclusion in retail rates of the costs derived from the transactions sought in this solicitation. UES will use its best efforts to obtain NHPUC's approval, which is expected five (5) business days after filing. Please see schedule below. Winning suppliers should expect their identity to be announced by the NHPUC in its order on the results of the RFP.

#### **Proposal Process and Submission Dates**

The following table outlines key dates associated with this procurement process. All times are in Eastern Prevailing Time (EPT).

Process Step	Date
Issue Default Service RFP	Tuesday, February 22, 2022
Non-Disclosure Agreement Due	Tuesday, March 8, 2022, 3:00 p.m.
Proposal Forms & Indicative Pricing Due (including proposed contract changes)	Tuesday, March 8, 2022
Final Pricing Due	Tuesday, March 22, 2022, 10:00 a.m.
Winning Supplier Notified	Tuesday, March 22, 2022, 1:00 p.m.
Contracts Executed	Thursday, March 24, 2022
File for Approval of Rates	Friday, March 25, 2022
Anticipated Approval of Rates	Friday, April 8, 2022
UES DS Commences	Wednesday, June1, 2022

Respondents to this RFP for Default Service must submit a completed Proposal Submission Form, including any proposed contract modifications, a non-disclosure agreement, indicative pricing and then final pricing according to the schedule shown above.

All submissions should be marked "UES Default Service RFP" and sent via e-mail to Jeff Pentz at pentzj@unitil.com and to energy contracts@unitil.com.

Please direct any questions to Jeff Pentz at (603) 773-6473 or to pentzi@unitil.com.

Non-Disclosure Agreement ("NDA") must be completed in order for UES to provide its financial information to bidders as well as to protect the confidentiality of bid information. Respondents who have previously signed an NDA with UES for the provision of Default Service supply do not need to execute a new NDA. Respondents who have not previously signed an NDA with UES must execute the NDA in Appendix C ("App\_C\_UES\_NDA\_2022\_02.doc"). A partially executed NDA or redline version with proposed changes is due by 3:00 p.m. on March 8, 2022.

<u>Proposal Submission Form</u> must be completed and is attached as Appendix A. Please see the file named "App\_A\_UES\_Submission\_Form\_2022-02.doc." Submission Forms are due on **March 8, 2022**.

<u>Indicative Pricing</u> is due along with the Proposal Submission Form. Indicative pricing should be submitted on the "Indicative" sheet of the Bid Form ("UES\_Bid\_Form\_2022-02.xls"). Pricing must meet the requirements described in the Proposed Pricing portion of Section V. Indicative pricing is due by **5:00 p.m. EPT on March 8, 2022.** 

Proposed contract modifications, on either the full Power Supply Agreement or on the PSA Amendment, are also due along with the Proposal Submission Form on **March 8**, **2022**. If respondents propose any changes to the Power Supply Agreement or the Amendment, respondents must provide an electronic copy of the Power Supply Agreement or the Amendment that is marked to show proposed language in a reviewable format. UES will consider the contractual terms and conditions accepted by each bidder as part of its evaluation criteria, as described in Section VI. When final bid prices are received and confirmed, UES intends to conduct its evaluation and select winning bidder(s) within a few hours. For these reasons, it is to each bidder's advantage to resolve contractual issues prior to final bidding.

<u>Final Pricing</u> should be submitted on the "Final" sheet of the Bid Form ("UES\_Bid\_Form\_2022-02.xls"). Respondent's name must be clearly marked. Final pricing is due by **10:00 a.m. EPT on March 22, 2022**.

<u>Winner Notified</u>. UES intends to confirm final pricing, evaluate competing bids as described in Section VI, Evaluation Criteria, and select and notify the winning bidder(s) by 1:00 p.m. EPT on March 22, 2022. Other bidders will be notified they were not selected by close of business.

UES, at its sole discretion, reserves the right to issue additional instructions or requests for additional information, to extend the due date, to modify any provision in this RFP or any appendix hereto or to withdraw this RFP.

#### **Contact Person and Questions**

Questions regarding this RFP should be submitted to Jeff Pentz at (603) 773-6473 or pentzj@unitil.com.

#### Right to Select Supplier

UES shall have the exclusive right to select or reject any and/or all of the proposals submitted at any time, for any reason and to disregard any submission not prepared according to the requirements contained in this RFP.

#### Customer Billing and Customer Service

The default service power supplies procured under this RFP will be wholesale supplies. As such, the winning supplier will have no retail customer contact in any form. All customers taking default service will be retail customers of UES. As the retail provider of such service, UES will provide billing and customer service to customers receiving default service. In addition, UES will assume responsibility for the ultimate collection of moneys owed by customers in accordance with rules and regulations approved by the NHPUC.

#### IV. Service Features

#### **Supply Obligation Period**

The supply obligation period for each supply contract will commence at 0001 hours on the dates listed under "Period Begins" in the following table and will terminate at 2400 hours on the dates listed under "Period Ends" in the following table.

Customer Group	Requirements	Period Begins	Period Ends
UES Small Default Load	100%	June 1, 2022	November 30, 2022
UES Medium Default Load	100%	June 1, 2022	November 30, 2022
UES Large Default Load	100%	June 1, 2022	November 30, 2022

#### **Delivery Point**

Supplier(s) will be responsible for all settlement obligations associated with the load assets. UES load assets are currently settled at the New Hampshire Load Zone (4002). In the event that NEPOOL implements nodal settlement of load obligations, supplier(s) will be responsible for all settlement obligations at the node where the load assets are settled. The UES load physically exists and is metered at the substations listed in Appendix C of the Power Supply Agreement. The delivery points are at the PTF level.

#### Form of Service

The winning bidder(s) ("Seller") shall provide firm, load-following power for delivery to ultimate customers taking service under UES' default service tariff, as amended from time to time. The obligations and responsibilities associated with providing default service shall be transferred to the Seller via an Ownership Share for Load Asset, utilizing the NEPOOL Asset Registration Process for load assets 11451 (Small Customer Group), 11452 (Medium Customer Group) and 10019 (Large Customer Group). The percentage Ownership Share for each load asset shall be as listed on the table above under Supply Obligation Period under the column heading "Requirements." The quantity of service that the Seller will be responsible to deliver, and that UES will be responsible to purchase, will be the volumes measured at the delivery points.

Seller shall be responsible for providing and paying for all energy and capacity services and for all ancillary services associated with the Day-Ahead Load Obligation and the Real-Time Load Obligation (as defined in Market Rule 1, Section III of ISO New England Inc.'s Transmission, Markets and Services Tariff (the "ISO Tariff")), associated with the load assets, as required by the ISO Tariff as may be amended or superseded from time to time. UES shall be responsible for providing and paying for the transmission of the power across NEPOOL PTF and for all ancillary services associated with the Regional Network Load (as defined in the Open Access Transmission Tariff, Section III of the ISO Tariff), associated with the load assets. The specific requirements regarding the provision of energy, capacity and ancillary services by the Seller, and regarding the provision of transmission service by UES, are detailed in Article 4 of the proposed Power Supply Agreement, attached as Appendix B.

UES will report the hourly default service load associated with the load assets to ISO-NE on a daily basis in accordance with the reporting practices in New England. The reported loads will incorporate appropriate load allocation and estimation techniques and available meter readings for customers receiving default service from UES. Month end adjustments, based on customer meter readings, will be made to loads approximately 45 days after each month. Such adjustments will be priced at the contract price in effect for the month the load was served.

#### Renewable Portfolio Standards

In 2007 the State of New Hampshire enacted an Electric Renewable Portfolio Standards law ("NH-RPS Law") (RSA 362-F) to foster the development of renewable energy sources to meet New Hampshire's energy needs. The Supplier(s) of Load Following Service are not required to provide UES' renewable energy obligations resulting from the NH-RPS Law. These requirements will be managed separately by UES

#### V. Proposal Requirements

#### Requested Information

Respondents to this RFP must provide the information identified in the Proposal Submission Form attached as Appendix A. Please see the file named "App\_A\_UES\_Submission\_Form\_2022-02.doc." Respondents are asked to complete the submission form and return it to Jeff Pentz as indicated in Section III. Proposals should contain explanatory, descriptive and/or supporting materials as necessary.

Respondents will find that UES requests on the Proposal Submission Form that bidders indicate whether they will extend sufficient financial credit to UES in order to facilitate the transactions sought. UES will provide a copy of its most recent financials upon completion of the Mutual Confidential Non-Disclosure Agreement attached as Appendix C. UES has proposed financial security terms in the Power Supply Agreement. Respondents are asked to indicate their acceptance of the proposed financial security terms, along with any contract language modifications they propose. Proposed contract language modifications must be provided in a reviewable and editable manner, such as is obtained using the "track changes" features of Microsoft Word. Respondents are also asked to indicate whether they agree that the Power Supply Agreement is subject to NHPUC approval of supporting retail rates as sought by UES.

UES will treat all information received from respondents in a confidential manner and will not, except as required by law or regulatory authority, disclose such information to any third party or use such information for any purpose other than to evaluate the respondent's ability to provide the services sought in this RFP. Respondents bidding to serve UES default service loads should expect that the identity of the winning bidder(s) will be announced by the NHPUC in its order on the results of the RFP.

#### **Proposed Pricing**

For the Small and Medium Customer Groups, UES seeks fixed monthly price offers for the six month period. Respondents must specify the prices, in \$/MWh, at which they will provide default service for each month of the supply obligation period associated with the default service loads they choose to bid. Proposed prices may vary by calendar month, but must be uniform for the entire calendar month and must cover the entire supply obligation period sought. Purchases will be made on an "as-delivered" energy basis with prices stated on a fixed \$/MWh basis for all MWh reported to the ISO for the load assets. No maximum price is specified; however the resulting retail rates are subject to the review and acceptance of the NHPUC.

For the Large Customer Group, UES seeks variable monthly price offers for a six month period. Respondents must specify the monthly fixed adders, in \$/MWh, at which, in addition to the load-weighted average real-time NH LMP, they will provide default service to the Large Customer Group. Proposed monthly adder prices may vary by calendar month, but must be uniform for the entire calendar month and must cover the entire supply obligation period sought. Purchases will be made on an "as-delivered" energy basis with the monthly contract price equaling the sum of the load-weighted average real-time NH LMP plus the monthly fixed adder as bid during the RFP process. UES and the supplier will be required to confirm the calculation of the final contract price as soon as practical following the month of service in order to facilitate billing under the contract. The final contract price will be stated on a \$/MWh basis and will apply to all MWh reported to ISO New England for Load Asset 10019 (Large Customer Group). No maximum price is specified; however the resulting retail rates are subject to the review and acceptance of the NHPUC.

#### **Bidder Requirements**

In order to secure reliable, low cost default service power for its customers, UES wishes to include all qualified power suppliers in this solicitation.

Bidders must have access to the ISO settlement process for the entire term of the sale, either as a signatory to the Market Participant Service Agreement ("MPSA") or via arrangements with a signatory to the MPSA to utilize their settlement process.

Respondents are encouraged to establish complete contract language, including financial security arrangements, with UES prior to submission of final pricing.

#### VI. Evaluation Criteria

The principal criteria to be used in evaluating proposals will include, but may not be limited to:

- Lowest evaluated bid price over the supply obligation period;

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- Financial and operational viability of the power supplier, including the establishment of mutually acceptable financial security arrangements; and
- Responsiveness to non-price requirements, including the reasonable extension of financial credit to UES, and agreement that the proposed transactions are subject to NHPUC approval of retail rates as sought by UES.
- Each customer load group supply contract sought will be evaluated and awarded separately.

Respondent pricing will be evaluated by weighting the fixed monthly pricing according to the Evaluation Loads provided on the bid sheets ("UES\_Bid\_Form\_2022-02.xls") and as described at the end of Section II.

#### Appendix A: Proposal Submission Form

See file named "App\_A\_UES\_Submission\_Form\_2022-02.doc"

#### **Appendix B: Power Sales Agreement**

See file named "App\_B\_UES\_Power\_Sales\_Agreement\_2022-02.doc"

#### **Appendix B1: Power Sales Agreement Amendment**

See file named "App\_B1\_UES\_PSA\_Amendment\_2022-02.doc"

#### **Appendix C: Mutual Confidential Non-Disclosure Agreement**

See file named "App\_C\_UES\_NDA\_2022-02.doc"

#### APPENDIX A: PROPOSAL SUBMISSION FORM

#### 1. General Information

Name of Respondent	
Name of Parent or Guarantor (if any)	
Principal contact person  < Name  < Title  < Company  < Mailing address  < Telephone number (office)  < Telephone number (cell)  < Fax number  < E-mail address	
Secondary contact person (if any)  < Name  < Title  < Company  < Mailing address  < Telephone number (office)  < Telephone number (cell)  < Fax number  < E-mail address	
Legal form of business organization of Respondent (e.g., sole proprietorship, partnership, limited partnership, joint venture, or corporation)	
State(s) of incorporation, residency or organization  Indicate whether Respondent is in good standing in all states in which Respondent is authorized to do business and, if not, which states and the reason it is not.	

If Respondent is a partnership, the names of all general and limited partners.  If Respondent is a limited liability company, the names of all direct owners.	
Description of Respondent and all affiliated entities and joint ventures transacting business in the energy sector.	

#### 2. Financial Information

Please provide the following for Respondent and/or Parent/Guarantor (as appropriate)	Respondent	Parent/Guarantor
Current debt ratings, including names of rating agencies and dates of ratings. If entity is not rated, please indicate.		
Date last fiscal year ended.		
Total revenue for the most recent fiscal year.		
Total net income for the most recent fiscal year.		
Total assets as of the close of the previous fiscal year.		
DUNS Number and Federal Tax ID.		
Please provide a copy of the most recent financials including balance sheet, income statement and cash flow statement.		

#### 3. Defaults and Adverse Situations

Describe, in detail, any situation in which Respondent (either alone or as part of a joint venture), or an affiliate of Respondent, defaulted or was deemed to be in noncompliance of its contractual obligations to deliver energy and/or capacity at wholesale within the past five years.	
Explain the situation, its outcome and all other relevant facts associated with the event described.	
Identify the name, title and telephone number of the principal manager of the customer/client who asserted the event of default or noncompliance.	
Has Respondent, or any affiliate of Respondent, in the last five years, (a) consented to the appointment of, or was taken in possession by, a receiver, trustee, custodian or liquidator of a substantial part of its assets, (b) filed a bankruptcy petition in any bankruptcy court proceeding, (c) answered, consented or sought relief under any bankruptcy or similar law or failed to obtain a dismissal of an involuntary petition, (d) admitted in writing of its inability to pay its debts when due, (e) made a general assignment for the benefit of creditors, (f) was the subject of an involuntary proceeding seeking to adjudicate that Party bankrupt or insolvent, (g) sought reorganization, arrangement, adjustment, or composition of it or its debt under any law relating to bankruptcy, insolvency or reorganization or relief of debtors.	
Describe any facts presently known to Respondent that might adversely affect its ability to provide the service(s) bid herein as provided for in the Request for Proposals.	

#### 4. NEPOOL and Power Supply Experience

Is Respondent a member of NEPOOL?	YES or NO
Please list Respondent's NEPOOL Participant ID.	
If Respondent is NOT a NEPOOL member, list the name and Participant ID of the NEPOOL member who will carry Respondent's obligations in its settlement account. Please provide a supporting statement and contact information from such member.	
Please describe Respondent's experience and record of performance in the areas of power marketing, brokering, sales, and/or contracting, for the last five years within NEPOOL and/or the New England region.	
Has Respondent previously provided Default Service to UES?  If response is "NO", please provide references as requested below.	YES or NO
Please provide three references (name, title and contact information) who have contracted with the Respondent for load-following services or who can attest to Respondent's ability in the areas of power supply portfolio management within the past 2 years.	<ol> <li>2.</li> <li>3.</li> </ol>

#### **5. Non Price Terms**

Does Respondent extend sufficient financial credit to UES to facilitate the transactions sought via this RFP?	YES or NO
Please indicate what, if any, financial security requirements Respondent has of UES in order to secure the extension of credit. Please attach any proposed contractual language.	
Does Respondent agree that the obligations of both parties are subject to and conditioned upon the NHPUC's approval of the retail rates derived from the transaction sought in this solicitation?	YES or NO
Please list all regulatory approvals required before service can commence.	
Is Respondent willing to enter into contractual terms substantially as proposed in the Power Supply Agreement contained in Appendix B?	YES or NO
Provide any proposed modifications to the Power Supply Agreement provided in Appendix B or to the PSA Amendment in Appendix B1.	
Please briefly list issues here and provide proposed language changes in the document using the "track changes" feature of Microsoft Word, or other reviewable revision marking process.	

#### POWER SUPPLY AGREEMENT

This POWER SUPPLY AGREEMENT ("Agreement") is dated as of **March 23**, **2022** and is by and between UNITIL ENERGY SYSTEMS, INC. ("UES" or "Buyer"), a New Hampshire corporation, and [Company] ("Seller"), a [what]. This Agreement provides for the sale by Seller of Default Service, as defined herein, to the Buyer. The Buyer and Seller are referred to herein individually as a "Party" and collectively as the "Parties".

#### ARTICLE 1. BASIC UNDERSTANDINGS

Seller, in response to a Request for Proposals issued on **February 22, 2022** by the Buyer, has been selected to be the supplier of firm, load-following power to meet the Buyer's Service Requirements as defined in the Service Requirements Matrix found in Appendix A. This Agreement sets forth the terms under which Seller will supply, and Buyer will purchase, Default Service during the Delivery Term.

#### ARTICLE 2. DEFINITIONS

As used in this Agreement, the following terms shall have the meanings specified in this Article. In addition, except as otherwise expressly provided, terms with initial capitalization used in this Agreement and not defined herein shall have the meaning as defined in the ISO Rules.

<u>Affiliate</u> means, with respect to any Party, any person (other than an individual) that, directly or indirectly, controls, or is controlled by such Party. For this purpose, "control" means the direct or indirect ownership of fifty percent (50%) or more of the outstanding capital stock or other equity interests having ordinary voting power.

Average Weighted RT LMP (real time locational marginal price) is the value determined each month during the Delivery Term of the Large Customer Group Service Requirement. The Average Weighted RT LMP is added to the Fixed Monthly Adder to calculate the Contract Rate per MWH for the Large Customer Group Service Requirement. The calculation of the Average Weighted RT LMP is detailed in Section 5.1.

**<u>Business Day</u>** means a 24-hour period ending at 5:00 p.m. EPT, other than Saturday, Sunday and any day which is a legal holiday or a day on which banking institutions in Boston, Massachusetts are authorized by law or other governmental action to close.

<u>Buyer</u> means Unitil Energy Systems, Inc., its successors, assigns, employees, agents and authorized representatives.

Buyer's System means the electrical transmission and distribution system of the Buyer.

<u>Commencement Date</u> means, with respect to a Service Requirement, the period beginning at the start of HE 0100 EPT on the date set forth for such Service Requirement on Schedule 1 of Appendix A.

<u>Commission</u> means the Federal Energy Regulatory Commission.

<u>Competitive Supplier Terms</u> means the Terms and Conditions for Competitive Suppliers, which are a part of the Retail Delivery Tariff, as may be amended from time to time.

<u>Conclusion Date</u> means the end of the HE 2400 EPT on the date set forth for the Service Requirement on Schedule 2 of Appendix A.

<u>Contract Rate</u> means the value expressed in \$/MWh as set forth in Appendix B, as applicable to each Service Requirement, during a month in the Delivery Term.

<u>Credit Rating</u> means (i) the lower of the ratings assigned to an entity's unsecured, senior long-term debt obligations (not supported by third party credit enhancements) by S&P and Moody's, (ii) in the event the entity does not have a rating for its senior unsecured long-term debt, the lower of the rating assigned to the entity as an issuer rating by S&P and Moody's, or the rating assigned to the entity as an issuer rating by any other rating agency agreed to by both Parties in each Party's sole and exclusive judgment.

<u>Credit Requirements</u> mean the satisfaction of any and all financial measures and/or Credit Rating status so as to avoid a Downgrade Event, as defined in Section 7.3(a).

<u>Customer Disconnection Date</u> means the date when a Default Service Customer is disconnected from service, as determined by the Buyer in accordance with the Retail Delivery Tariff.

<u>Customer Group</u> means the Small Customer Group or the Large Customer Group, as the case may be.

<u>Customer Initiation Date</u> means the date a retail customer of the Buyer begins taking service pursuant to the Schedule DS of the Buyer's Retail Delivery Tariff, as determined by the Buyer.

<u>Customer Termination Date</u> means the date when a Default Service Customer ceases to take service pursuant to Schedule DS under the Retail Delivery Tariff.

<u>Default Service</u> means the provision of Requirements by Seller at the Delivery Point to the Buyer to meet all needs of Default Service Customers.

<u>Default Service Customer(s)</u> means the retail customer(s) in each Customer Group identified in Appendix A taking service pursuant to Schedule DS of the Retail Delivery Tariff during the applicable Delivery Term.

<u>Delivered Energy</u> means the quantity of energy, expressed in MWh, provided by Seller under the terms of this Agreement. This quantity shall be the sum of energy reported to the ISO by the Buyer for each of the Load Assets identified in Section 6.4, with such quantity determined by the Buyer in accordance with Section 6.3 of this Agreement. Such quantity shall not include any allocation of PTF losses up to and including the Delivery Point (which the ISO may assess to Seller in relation to such energy), but shall include transmission and distribution losses on the Buyer's System from the Delivery Point to the meters of Default Service Customers.

<u>Delivery Point</u> means the PTF location where Requirements are settled under ISO Rules. UES load assets are currently settled at the New Hampshire Load Zone (4002). The UES load physically exists and is metered at the substations listed in Appendix C.

<u>Delivery Term(s)</u> means the applicable period associated with a Service Requirement beginning at the start of HE 0100 EPT in Schedule 1 through and including the end of the HE 2400 EPT in Schedule 2 of Appendix A.

**EPT** means Eastern Prevailing Time.

<u>Fixed Monthly Adder</u> means the dollar per MWH price specified in Appendix B. The Fixed Monthly Adder is added to the Average Weighted RT LMP each month during the Delivery Term of the Large Customer Group Service Requirement in order to calculate the monthly Contract Rate per MWH for the Large Customer Group Service Requirement.

<u>GAAP</u> means Generally Accepted Accounting Principles promulgated by the Financial Accounting Standards Board at the time of issuance of the financial statements.

Governing Documents means, with respect to any particular entity, (a) if a corporation, the (i) articles of organization, articles of incorporation or certificate of incorporation and (ii) the bylaws; (b) if a general partnership, the partnership agreement and any statement of partnership; (c) if a limited partnership, the limited partnership agreement and the certificate of limited partnership; (d) if a limited liability company, the articles or certificate of organization or formation and operating agreement; (e) if another type of entity, any other charter or similar document adopted or filed in connection with the creation, formation or organization of such entity; (f) all equity holders' agreements, voting agreements, voting trust agreements, joint venture agreements, registration rights agreements or other agreements or documents relating to the organization, management or operation of any entity or relating to the rights, duties and obligations of the equity holders of any entity; and (g) any amendment or supplement to any of the foregoing.

<u>Interest Rate</u> means, for any date, the lesser of (a) the per annum rate of interest equal to the prime lending rate as may from time to time be published in The Wall Street Journal under "Money Rates" on such day (or if not published on such day, on the most recent preceding day on which published), plus two percent (2%) and (b) the maximum rate permitted by applicable law.

Investment Grade means (i) if an entity has a Credit Rating from both S&P and Moody's then, a Credit Rating from S&P equal to or better than "BBB-" and a Credit Rating from Moody's equal to or better than "Baa3"; or (ii) if an entity has a Credit Rating from only one of S&P and Moody's, then a Credit Rating from S&P equal to or better than "BBB-" or a Credit Rating from Moody's equal to or better than "Baa3 or (iii) if the Parties have mutually agreed in writing on an additional or alternative rating agency, then a Credit Rating from S&P (if applicable) equal to or better than "BBB-" and/or a Credit Rating from Moody's (if applicable) equal to or better than "Baa3", and with respect to the additional or alternative rating agency, a credit rating equal to or better than that mutually agreed to by the Parties in each Party's sole and exclusive judgment.

<u>ISO</u> means ISO New England Inc., the Independent System Operator / Regional Transmission Organization established in accordance with the NEPOOL Agreement, and any successor.

<u>ISO Rules</u> means all rules adopted by the ISO or NEPOOL, as such rules may be amended, added, superseded and restated from time to time, including the NEPOOL Agreement, ISO New England Inc. Transmission, Markets and Services Tariff FERC Electric Tariff No. 3, the Transmission Operating Agreement, and the Participants Agreement, the ISO Manuals, and the NEPOOL Operating Procedures.

**kWh** means kilowatt-hour.

<u>Large Customer Group</u> means the retail customers assigned to the following customer rate class: Large General Service Schedule G1.

Material Adverse Effect means, with respect to a Party, any change in or effect on such Party after the date of this Agreement that is materially adverse to the transactions contemplated hereby, excluding any change or effect resulting from (a) changes in the international, national, regional or local wholesale or retail markets for electric power; (b) changes in the international, national, regional or local markets for any fuel; (c) changes in the North American, national, regional or local electric transmission or distribution systems; and (d) any action or inaction by a governmental authority, but in any such case not affecting the Parties or the transactions contemplated hereby in any manner or degree significantly different from others in the industry as a whole.

<u>Medium Customer Group</u> means the retail customers assigned to the following customer rate classes: Regular General Service Schedule G2, and Outdoor Lighting Service Schedule OL.

<u>Moody's</u> means Moody's Investors Service Inc., its successors and assigns.

**MWh** means Megawatt-hour.

<u>NE-GIS</u> means the NEPOOL Generation Information System, which includes a generation information database and certificate system, operated by ISO, its designee or successor entity, that accounts for generation attributes of electricity consumed within New England.

<u>NE-GIS Certificates</u> means a document produced by the NE-GIS that identifies the relevant generation attributes of each MWh accounted for in the NE-GIS from a generation unit.

**NEPOOL** means the New England Power Pool, or its successor.

<u>NEPOOL Agreement</u> means the Second Restated New England Power Pool Agreement effective on February 1, 2005, as amended or accepted by the Commission and as may be amended, superseded and/or restated from time to time.

**NHPUC** means the New Hampshire Public Utilities Commission.

**NH Load Zone** means the New Hampshire Reliability Region as defined in the ISO Rules.

<u>PTF</u> means facilities categorized as Pool Transmission Facilities under ISO Rules.

**Requirements** shall be defined in Section 4.2(c).

**<u>Retail Delivery Tariff</u>** means UES' Tariff for Electric Delivery in the State of New Hampshire.

**S&P** means Standard & Poor's Rating Group, its successors and assigns.

<u>Service Requirement</u> means a load-following, wholesale power supply requirement, defined by a unique combination of Customer Group, load responsibility and Delivery Term as listed in Appendix A.

**Small Customer Group** means the retail customers assigned to the following customer rate classes: Domestic Delivery Service Schedule D.

## ARTICLE 3. TERM, SERVICE PROVISIONS AND REGISTRATION REQUIREMENTS

#### Section 3.1 Term

This Agreement shall be effective immediately upon execution by the Parties and shall continue in effect until the Service Requirements listed in Appendix A have been fully performed and final payment made hereunder or this Agreement has been otherwise terminated as provided herein by reason of an uncured Event of Default. As of the expiration of this Agreement or, if earlier, its termination, the Parties shall no longer be bound by the terms and provisions hereof, except (a) to the extent necessary to enforce the rights and obligations of the Parties arising under this Agreement before such expiration or termination and (b) the obligations of the Parties hereunder with respect to audit rights, remedies for default, damages claims, indemnification and defense of claims shall survive the termination or expiration of this Agreement to the full extent necessary for their enforcement and the protection of the Party in whose favor they run, subject to any time limits specifically set forth in this Agreement.

#### Section 3.2 <u>Commencement of Supply</u>

- (a) Beginning as of the Commencement Date applicable to the Customer Group set forth on Appendix A, Seller shall provide Requirements to the Buyer. For purposes of certainty: Seller's obligations on the Commencement Date shall be to provide Requirements for all Default Service Customers taking service as of and including the Commencement Date.
- (b) With respect to each person or entity that becomes a Default Service Customer subsequent to the Commencement Date, Seller shall provide Requirements to the Buyer to meet the needs of the Default Service Customer(s) as of and including the Customer Initiation Date for such customer initiating such service during the Delivery Term.
- (c) During the Delivery Term that Seller provides Default Service to the Buyer's Large Customer Group, Buyer shall make its best efforts to notify Seller promptly of all Customer Initiation Dates of retail customers in the Large Customer Group. Upon such notice, Buyer shall also provide historic annual (prior billed 12 months) peak kVa and total kWh consumption for such customers.

#### Section 3.3 Termination and Conclusion of Supply

- (a) With respect to each Default Service Customer that terminates Default Service, during the Delivery Term, Seller shall not provide Requirements for such customer as of the Customer Termination Date.
- (b) During the Delivery Term that Seller provides Default Service to the Buyer's Large Customer Group, Buyer shall make best efforts to notify Seller promptly of all Customer Termination Dates and Customer Disconnection Dates of retail customers in the Large Customer Group. Upon such notice, Buyer shall also provide historic annual (prior billed 12 months) peak kVa and total kWh consumption for such customers.
- (c) Seller's obligation to provide Requirements shall cease at the Conclusion Date.

#### Section 3.4 <u>Distribution Service Interruptions</u>

Seller acknowledges that interruptions in distribution service occur and may reduce the load served hereunder. Seller further acknowledges and agrees that the Buyer may interrupt distribution service to customers consistent with the Distribution Service Terms and the Competitive Supplier Terms. In no event shall a Party have any liability or obligation to the other Party in respect of any such interruptions in distribution service.

#### Section 3.5 Release of Customer Information

The Buyer will not issue any customer information to Seller unless Seller has first obtained the necessary authorization in accordance with the provisions of the Competitive Supplier Terms.

#### Section 3.6 Change in Supply; No Prohibition on Programs

(a) Seller acknowledges and agrees that the number of customers and the Requirements to meet the needs of such customers will fluctuate throughout the Delivery Term and may equal zero. The Buyer shall not be liable to Seller for any losses Seller may incur, lost revenues, and losses that may result from any change in Requirements, number or location of customers taking service, the location of the Delivery Point(s), the composition or components of market products or Requirements, or the market for electricity, or change in the Retail Delivery Tariff. Seller further

acknowledges and agrees that there is no limit on the number of Customer Initiation Dates, Customer Termination Dates and Customer Disconnection Dates.

- (b) Seller acknowledges and agrees that the Buyer has the right but not the obligation to continue, initiate, support or participate in any programs, promotions, or initiatives designed to or with the effect of encouraging customers to leave Default Service for any reason ("Programs"). Nothing in this Agreement shall be construed to require notice to or approval of Seller in order for the Buyer to take any action in relation to Programs.
- (c) Seller acknowledges and agrees that the Buyer and Affiliates of the Buyer will not provide Seller preferential access to or use of the Buyer's System and that Seller's sole and exclusive rights and remedies with regard to access to, use or availability of the Buyer's System, and the Buyer's or Affiliates of the Buyer's obligation to transmit electricity are those rights, remedies and obligations provided under the Retail Delivery Tariff, the ISO Rules, and the Buyer's Open Access Transmission Tariff.

#### Section 3.7 Disclosure Requirements

In the event that the NHPUC implements a disclosure label requirement, which requires the Buyer to document its power supply attributes, then the Seller shall provide the Buyer information pertaining to power plant emissions, fuel types, labor information and any other information required by the Buyer to comply.

#### Section 3.8 Regulatory Approvals

Notwithstanding Section 21(d) below, or anything else to the contrary herein, the Parties' obligations under this Agreement are subject to Buyer obtaining approval from NHPUC of the inclusion in retail rates of the amounts payable by Buyer to Seller under this Agreement, without material modification to the obligations of either Party under this Agreement. Buyer shall use its best efforts to obtain prompt approval of such rates. If Buyer is unable to obtain NHPUC approval by **April 8**, **2022** Buyer and Seller agree to review the status of such approval process and determine whether to continue to pursue the transaction contemplated in this Agreement. If the Parties cannot agree as to how to continue such transaction, this Agreement shall terminate without liability to either Party.

#### ARTICLE 4. SALE AND PURCHASE

#### Section 4.1 Provision Delivery and Receipt

Seller shall provide and deliver to the Delivery Point and the Buyer shall receive at the Delivery Point the percent of the Requirements applicable to each Service Requirement as set forth on Appendix A during the Delivery Term.

## Section 4.2 <u>Responsibilities</u>

(a) Buyer shall be responsible for arranging and paying for the transmission of the power across NEPOOL PTF and for any ancillary services, allocated to the Network Load, associated with the Service Requirements. Arranging and paying for transmission across NEPOOL PTF, required of the Buyer, includes, but is not limited to taking Regional Network Service under the ISO New England Inc. Transmission, Markets and Services Tariff ("ISO Tariff"). Arranging and paying for ancillary services, required by the Buyer, includes, but is not limited to any transmission dispatch or power administration services, as may be allocated to Network Load in accordance

with ISO Rules. Arranging and paying for transmission from NEPOOL PTF to Buyer's distribution facilities includes, but is not limited to, taking Network Integration Transmission Service under the Service Agreement for Network Integration Transmission Service between Northeast Utilities Service Company and UES.

- (b) Seller shall be responsible for all present and future obligations, requirements, and costs associated with the Requirements.
- (c) The term "Requirements" means the provision of energy at the Delivery Point as set forth in Section 4.2(e), capacity as set forth in Section 4.2(f) and ancillary services as set forth in Section 4.2(g), in each case associated with the Service Requirements as set forth in Appendix A.
- If ISO Rules are modified during the Term of this Agreement, which change the allocation of currently existing charges and obligations from the Load Asset, associated with the Service Requirements to the Network Load, associated with the Buyer's transmission responsibilities, then, if possible, the charges or obligations shall be transferred back to the Seller through the ISO and/or ISO settlement process. If such transfer is not possible, then the Seller shall compensate the Buyer for any additional cost. If ISO Rules are modified during the Term of this Agreement, which change the allocation of currently existing charges and obligations from the Network Load, associated with the Buyer's transmission responsibilities to the Load Asset, associated with the Service Requirements, then, if possible, the charges or obligations shall be transferred back to the Buyer through the ISO and/or ISO settlement process. If such transfer is not possible, then the Buyer shall compensate the Seller for such charges. If ISO Rules are changed after the date of this Agreement, which create new charges or obligations, associated with the Service Requirements, then the Seller shall be responsible for such new charges or obligations. Likewise, if ISO Rules are changed during the Term of this Agreement, which create new charges or obligations, associated with the Network Load, associated with the Buyer's transmission responsibilities, then the Buyer shall be responsible for such charges or obligations.
- (e) Provision of energy includes, but is not limited to the following. Seller shall have the Day-Ahead Load Obligation and the Real-Time Load Obligation, associated with the Service Requirements at the Delivery Point. Currently, the Energy Settlement Obligation, associated with the Service Requirements at the Delivery Point, is settled at the New Hampshire Load Zone. In the event that NEPOOL or the ISO implements nodal settlement of load obligations of the Day-Ahead Energy Market and Real-Time Energy Market, the Seller shall continue to be responsible for Day-Ahead and Real-Time Load Obligations at the appropriate settlement location(s), associated with the Service Requirements at the Delivery Point.
- (f) Provision of capacity includes, but is not limited to the following. Seller shall have the ICAP Settlement Obligation, associated with the Service Requirements at the Delivery Point. Currently, the ICAP Settlement Obligation, associated with the Service Requirements at the Delivery Point, can be satisfied with any ICAP resource, recognized by the ISO in the NEPOOL control-area or imported into the NEPOOL control-area. In the event that ISO implements a locational capacity requirement, including that which was proposed in the Commission's docket number ER03-563, then the Seller will be responsible for providing ICAP at the location, required to meet the Locational ICAP Settlement Obligation, associated with the Service Requirements at the Delivery Point.
- (g) Provision of ancillary services, required of the Seller, includes, but is not limited to Regulation, Operating Reserves, Local Second-Contingency-Protection Resource ("LSCPR")

other than LSCPR Operating Reserve charges that are monthly fixed-cost charges paid to Special Constraint Resources pursuant to agreements negotiated pursuant to Schedule 19 of Section II - Open Access Transmission Tariff, Net Commitment Period Compensation ("NCPC") other than LSCPR NCPC charges that are monthly fixed-cost charges paid to Specialty Constraint resources pursuant to agreements negotiated under Schedule 19 of Section II – Open Access Transmission Tariff, Forward Reserves, and any transmission dispatch or power administration services, as may be allocated to the Owner of the Load Assets, associated with the Service Requirements in accordance with ISO Rules. If ISO Rules are changed such that locational ancillary services are required, then the Seller shall be responsible for meeting the locational ancillary services requirement, associated with the Service Requirements at the Delivery Point.

(h) It is the intent of the Parties that for each Financial Transmission Rights Auction ("FTR Auction") conducted by the ISO for months within the Delivery Terms(s), those Auction Revenue Rights ("ARRs") associated solely with the Service Requirement shall be assigned or paid to Seller, provided, however, Buyer shall be under no obligation to participate in any manner in any FTR Auction in order to increase Auction Revenue Right quantities.

#### ARTICLE 5. AMOUNT, BILLING and PAYMENT

#### Section 5.1 Amount

The amount payable by the Buyer to Seller for Delivered Energy in a month shall be the product of (a) the sum of the Delivered Energy for each Customer Group, as identified in Appendix A in each month during the applicable Delivery Term; and (b) the Contract Rate for such Service Requirement as identified in Appendix B for such month during the applicable Delivery Term.

Appendix B indicates that the prices listed for the Large Customer Group are Fixed Monthly Adders, therefore the Contract Rate will be calculated as the sum of the Average Weighted RT LMP and the Fixed Monthly Adder as shown in Equation 1. The Average Weighted RT LMP is calculated in accordance with Equation 2.

#### **Equation 1**

Contract Rate = Average Weighted RT LMP + Fixed Monthly Adder

The Average Weighted RT LMP shall be calculated using the MWH of Delivered Energy reported for the Large Customer Group default service load asset, Load Asset number 10019, and the hourly real time locational marginal prices ("RT LMP") for the settlement location of Load Asset 10019, which is currently the New Hampshire Load Zone (4002). The Average Weighted RT LMP equals the sum of the products of the RT LMP and the Delivered Energy (MWH) of Load Asset 10019 in each hour of the month of service, divided by the sum of Delivered Energy (MWH) of Load Asset 10019 for the month of service, as shown in Equation 2.

#### Equation 2

 $\frac{Average\ Weighted\ RT\ LMP}{Sum\ [hourly\ RT\ LMP\ *\ hourly\ Delivered\ Energy\ (MWH)\ of\ Load\ Asset\ 10019]}{Sum\ [hourly\ Delivered\ Energy\ (MWH)\ of\ Load\ Asset\ 10019]}$ 

The Large Customer Group prices listed in Appendix B are Fixed Monthly Adders requiring the Contract Rate to be calculated as described in Equation 1 and Equation 2, and the Contract Rate will be determined and affirmed by both Buyer and Seller by the third business day following the month of service. Once agreed upon, the Contract Rate for the month of service shall be final and shall not be subject to change in the event that either the New Hampshire RT LMP or the Delivered Energy (MWH) of Load Asset 10019 are subsequently revised or restated.

#### Section 5.2 Billing and Payment

- (a) On or before the twentieth (20th) day of each month ("Invoice Date") during the term of this Agreement, Seller shall calculate the amount due and payable to Seller pursuant to this Article 5, for Delivered Energy with respect to the preceding month (the "Calculation"). Seller shall provide the Calculation to the Buyer and such Calculation shall include sufficient detail for the Buyer to verify its formulation and computation. Calculations under this paragraph shall be subject to recalculation in accordance with Article 6 and shall be subject to adjustment (positive or negative) based upon such recalculation (a "Reconciliation Adjustment"). Seller shall promptly calculate the Reconciliation Adjustment upon receiving data described in Section 6.3 and shall include the adjustment, if any, in the next month's Invoice. A Reconciliation Adjustment based upon a change in the quantity for an earlier month shall be calculated using the applicable Contract Rate for the month in which the Delivered Energy was received.
- (b) Seller shall submit to the Buyer an invoice with such Calculation as provided for in paragraph (a) of this Section (the "Invoice") and the respective amounts due under this Agreement on the Invoice Date. The Buyer shall pay Seller the amount of the Invoice (including the Reconciliation Adjustment, if any, as a debit or credit) less any amounts disputed in accordance with Section 5.3, on or before the later of the last Business Day of each month, or the tenth (10th) day after receipt of the Invoice, or, if such day is not a Business Day, then on the next following Business Day, (the "Due Date"). Except for amounts disputed in accordance with Section 5.3, if all or any part of the Invoice remains unpaid after the Due Date, interest shall accrue after but not including the Due Date and be payable to Seller on such unpaid amount at the Interest Rate in effect on the Due Date. The Due Date for a Reconciliation Adjustment shall be the Due Date of the Invoice in which it is included.
- (c) Each Party shall notify the other Party upon becoming aware of an error in an Invoice, Calculation or Reconciliation Adjustment (whether the amount is paid or not) and Seller shall promptly issue a corrected Invoice. Overpayments shall be returned by the receiving Party upon request or deducted by the receiving Party from subsequent invoices, with interest accrued at the Interest Rate from the date of the receipt of the overpayment until the date paid or deducted.

#### Section 5.3 <u>Challenge to Invoices</u>

Either Party may challenge, in writing, the accuracy of Calculations, Invoices, Reconciliation Adjustments and data no later than twenty-four (24) months after the Due Date of the Invoice in which the disputed information is contained. If a Party does not challenge the accuracy within such twenty-four (24) month period, such Invoice shall be binding upon that Party and shall not be subject to challenge. If any amount in dispute is ultimately determined (under the terms herein) to be due to the other Party, it shall be paid or returned (as the case may be) to the other Party within three (3) Business Days of such determination along with interest accrued at the Interest Rate

from the (i) date due and owing in accordance with the Invoice until the date paid or (ii) if the amount was paid and is to be returned, from the date paid, until the date returned.

#### Section 5.4 Taxes, Fees and Levies

Seller shall be obligated to pay all present and future taxes, fees and levies ("Taxes") which may be assessed by any entity upon the Seller's performance under this Agreement the purchase and sale of Requirements. Seller shall pay all Taxes with respect to the Requirements up to and at the Delivery Point, and the Buyer will pay all Taxes with respect to the Requirements after the Delivery Point. All Requirements, including electricity and other related market products delivered hereunder by Seller to the Buyer shall be sales for resale with the Buyer reselling such electricity and products.

#### Section 5.5 Netting and Setoff

Except for security provided pursuant to Section 7.3 (which shall not be considered for purposes of this Section 5.5) and unless otherwise specified in another agreement between the Parties, if the Parties are required to pay an amount in the same month each to the other under this Agreement or any other agreement between the Parties, or if any costs that are a Party's responsibility under this Agreement are incorrectly or inappropriately charged to the Party by the ISO, such amounts shall be netted, and the Party owing the greater aggregate amount shall pay to the other Party any difference between the amounts owed. Each Party reserves all rights, setoffs, counterclaims and other remedies and defenses (to the extent not expressly herein or therein waived or denied) that such Party has or to which such Party may be entitled arising from or out of this Agreement or the other agreement. Further, if the Buyer incurs any costs or charges that are the responsibility of Seller under this Agreement, such costs or charges may, at the Buyer's election, be netted against any amount due to Seller under this Agreement. All outstanding obligations to make payment under this Agreement or any other agreement between the Parties may be netted against each other, set off or recouped there from, or otherwise adjusted.

# ARTICLE 6. QUALITY; LOSSES and QUANTITIES REQUIRED; DETERMINATION AND REPORTING OF HOURLY LOADS

#### Section 6.1 Quality

All electricity shall be delivered to the Buyer in the form of three-phase sixty-hertz alternating current at the Delivery Point.

#### Section 6.2 Losses

Seller shall be responsible for any transmission losses up to and including the Delivery Point. Losses beyond the Delivery Point are included in Delivered Energy and are paid for by the Buyer at the applicable Contract Rate.

#### Section 6.3 Determination and Reporting of Hourly Loads

The Buyer will estimate the Delivered Energy for Default Service provided by Seller pursuant to this Agreement based upon average load profiles developed for each of the Buyer's customer classes, actual metered data, as available, and the Buyer's actual total hourly load. The Buyer shall report to the ISO and Seller, the estimated Delivered Energy. In accordance with the ISO Rules,

the Buyer will normally report to the ISO and to Seller, the Seller's estimated Delivered Energy by 1:00 P.M EPT of the second following Business Day after delivery. The Buyer shall have the right but not the obligation, in its sole and exclusive judgment, to modify the Estimation Process from time to time, provided that any such modification is designed with the objective of improving the accuracy of the Estimation Process.

Each month, the Buyer shall reconcile the Buyer's estimate of the Delivered Energy based upon the Buyer's meter reads (such meter reads as provided for in the Retail Delivery Tariff). The reconciliation, including all losses, shall be the adjusted Delivered Energy. In accordance with the ISO Rules the Buyer will normally notify the ISO of any resulting adjustment (debit or credit) to Seller's account for the Load Assets (set forth in Section 6.4) no later than the last day of the third month following the billing month.

#### Section 6.4 <u>ISO Settlement Power System Model Implementation</u>

The Default Service provided by Seller pursuant to this Agreement will be initially represented within the ISO Settlement Power System Model as described in Appendix A.

As soon as possible after the execution of this Agreement and before the Commencement Date, the Buyer shall assign to Seller, and Seller shall accept assignment of an Ownership Share for each Load Asset identified in Appendix A. Such assignment shall be effective beginning on the Commencement Date. Seller shall take any and all actions necessary to effectuate such assignment including executing documents required by ISO Rules. Once Seller's provision of Default Service terminates (at the end of a Delivery Term or otherwise), the Buyer and Seller will terminate Seller's Ownership Shares of the aforementioned Load Assets.

The Buyer shall have the right to change the Load Asset designations (identified above) from time to time, consistent with the definition and provision of Default Service. If and to the extent such designations change, the Buyer and Seller shall cooperate to timely put into effect the necessary documents that may be required to implement the new designations and terminate the prior designations.

#### ARTICLE 7. DEFAULT AND TERMINATION

#### Section 7.1 Events of Default

- (a) Any one or more of the following events shall constitute an "Event of Default" hereunder with respect to the Buyer:
  - (i) Failure of the Buyer
    - (A) in any material respect to comply with, observe or perform any covenant, warranty or obligation under this Agreement (but excluding events that are otherwise specifically covered in this Section as a separate Event of Default and except due to causes excused by Force Majeure or attributable to Seller's' in breach of this Agreement); and
    - (B) After receipt of written notice from Seller such failure continues for a period of five (5) Business Days, or, if such failure cannot be reasonably cured within such five (5) Business Day period, such further period as shall

reasonably be required to effect such cure (but in no event longer than thirty (30) days), provided that the Buyer commences within such five (5) Business Day period to effect a cure and at all times thereafter proceed diligently to complete the cure as quickly as possible and provides to Seller written documentation of its efforts and plan to cure and estimated time for completion of the cure.

- (ii) Failure of the Buyer to (A) make when due any undisputed payment due to Seller hereunder; and (B) after receipt of written notice from Seller such failure continues for a period of three (3) Business Days.
- (iii) Failure of the Buyer to accept Default Service in accordance with Article 3 (unless excused by Force Majeure or attributable to the Seller's breach of this Agreement, or otherwise in accordance with this Agreement).
- (b) Any one or more of the following events shall constitute an "Event of Default" hereunder with respect to Seller:
  - (i) Failure of Seller
    - (A) in any material respect to comply with, observe, or perform any covenant, warranty or obligation under this Agreement (but excluding events that are otherwise specifically covered in this Section as a separate Event of Default and except due to causes excused by Force Majeure or attributable to the Buyer's in breach of this Agreement); and
    - (B) after receipt of written notice from the Buyer such failure continues for a period of five (5) Business Days, or, if such failure cannot be reasonably cured within such five (5) Business Day period, such further period as shall reasonably be required to effect a cure (but in no event longer than thirty (30) days), provided that Seller commences within such five (5) Business Day period to effect such cure and at all times thereafter proceeds diligently to complete the cure as quickly as possible and provides to the Buyer written documentation of its efforts and plan to cure and estimated time for completion of the cure;
  - (ii) Failure of Seller to provide Requirements in accordance with Articles 3 and 4
- (c) Any one or more of the following events with respect to either Party shall constitute an "Event of Default" hereunder with respect to such Party:
  - (i) The entry by a court having jurisdiction in the premises of (A) a decree or order for relief in respect of such Party in an involuntary case or proceeding under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law, or (B) a decree or order adjudging such Party as bankrupt or insolvent, or approving as properly filed a petition seeking reorganization, arrangement, adjustment or composition of or in respect of such Party under any applicable federal or state law, or appointing a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of such Party or of any substantial part of its property, or ordering the winding up or liquidation of its affairs;
  - (ii) The commencement by such Party of a voluntary case or proceeding, or any filing by a third party of an involuntary case or proceeding against a Party that is not dismissed within forty-five (45) days of such filing, under any applicable federal or

state bankruptcy, insolvency, reorganization or other similar law, or of any other case or proceeding to be adjudicated as bankrupt or insolvent, or the consent by it to the entry of a decree or order for relief in respect of such Party in an involuntary case or proceeding under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law or to the commencement of any bankruptcy or insolvency case or proceeding against it, or the filing by it of a petition or answer or consent seeking reorganization or relief under any applicable federal or state law, or the consent by it to the filing of such petition or to the appointment of or taking possession by a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of a Party or of any substantial part of its property, or the making by it of an assignment for the benefit of creditors, or the admission by it in writing of its inability to pay its debts generally as they become due, or the taking of corporate action by such Party in furtherance of any such action;

- (iii) Any representation or warranty made by a Party is or becomes false or misleading in any material respect.
- (iv) Failure of such Party to deliver Performance Assurance when due in accordance with Section 7.3 if such failure is not remedied within three (3) Business Days after written notice.

#### Section 7.2 Remedies Upon Default

The Parties shall have the following remedies available to them with respect to the occurrence of an Event of Default with respect to the other Party hereunder:

- Upon the occurrence of an Event of Default, the non-defaulting Party shall have the right to (i) continue performance under this Agreement and exercise such rights and remedies as it may have at law, in equity or under this Agreement and seek remedies as may be necessary or desirable to enforce performance and observation of any obligations and covenants under this Agreement, so long as such rights and remedies are not duplicative of any other rights and remedies hereof, and do not otherwise enable the non-defaulting Party to obtain performance or payments in excess of the performance and payments to which it is otherwise entitled pursuant to this Agreement, or (ii) at its option, give such defaulting Party a written notice (a "Termination Notice") terminating this Agreement. Upon a termination for an Event of Default under Section 7.1(a), (b) or (c)(iii) and (iv), such termination shall be effective as of the date specified in the Termination Notice, which date shall be no earlier than the date such notice is effective and no later than thirty (30) days after the date of such notice is provided to the defaulting Party in accordance with Article 8. Upon a termination for an Event of Default under Section 7.1(c)(i) or (ii), such termination shall be effective as of the Event of Default, upon notice being provided to the defaulting Party in accordance with Article 8. Any attempted cure by a defaulting Party after a Termination Notice has been provided or the effective termination under Section 7.1(c)(i) or (ii) shall be void and of no effect. The Parties' obligations under this Agreement, in general and under this Section 7.2 in particular, are subject to the duty to mitigate damages as provided under common law.
- (b) At any time after the occurrence of an Event of Default, or the delivery of a Termination Notice to the defaulting Party by the non-defaulting Party, the non-defaulting Party may exercise any rights it may have pursuant to the Section 7.3 (Security).
- (c) In the event of termination for an Event of Default as provided in Section 7.1, in addition to any amounts owed for performance (or failure to perform) hereunder prior to such termination,

the non-defaulting Party may recover, without duplication, its direct damages resulting from such Event of Default; such damages shall include the positive (if any) present value of this Agreement to the non-defaulting Party for the portion of the Delivery Term remaining at the time of such termination, to be determined by reference to market prices, transaction costs and load reasonably projected for the remaining portion of the Delivery Term ("Termination Damages"). The Termination Damages shall include all reasonably incurred transaction costs and expenses that otherwise would not have been incurred by the non-defaulting Party. In determining its Termination Damages, the non-defaulting Party shall offset its losses and costs by any gains or savings realized by the non-defaulting Party as a result of the termination.

Payment of Termination Damages, if any, shall be made by the defaulting Party to the non-defaulting Party within five (5) days after calculation of such Termination Damages and receipt of a notice including such calculation of the amounts owed hereunder and a written statement showing in reasonable detail the calculation and a summary of the method used to determine such amounts. Upon the reasonable request of the defaulting Party, the non-defaulting Party shall provide reasonable documentation to verify the costs underlying the Termination Damages. If the defaulting Party disputes the non-defaulting Party's calculation of the Termination Damages, in whole or in part, the defaulting Party shall, within five (5) days of receipt of the non-defaulting Party's calculation of the Termination Damages, provide to the non-defaulting Party a detailed written explanation of the basis for such dispute; provided, however, that, the defaulting Party shall first pay the Termination Damages, if any, to the non-defaulting Party in accordance with the preceding sentence, and the non-defaulting Party shall then deposit such disputed amount into an interest bearing escrow account for the benefit of the prevailing Party and the dispute shall be resolved in accordance with Section 15.2.

- (d) Notwithstanding any other provision of this Agreement, the cure of any default or failure to comply with, observe or perform any covenant, warranty or obligation under this Agreement within the period provided therefor in this Article shall not release such defaulting Party from its obligations under Section 9.2 of this Agreement.
- (e) Upon termination the Buyer shall, and upon the occurrence of an Event of Default by Seller, the Buyer shall have the right to, immediately notify the ISO that (i) the assignment from the Buyer to Seller of the applicable Ownership Share has been terminated, (ii) the Load Assets shall be removed from Seller's account and placed in the account of the Buyer and (iii) Seller consents to such action. In the event the Buyer so notifies the ISO, Seller shall immediately take any and all actions that may be required by the ISO to remove the Load Assets from Seller's account and place them in the account of the Buyer. If the Agreement has not been terminated, the Buyer, in its sole discretion with 5 Business Days prior notice to Seller, may elect to assign the applicable Ownership Share of the Load Assets to the account of Seller and Seller shall accept such assignment, consistent with the actions required by Section 6.4 of this Agreement.

#### Section 7.3 <u>Security</u>

(a) If the Credit Rating of either Party is downgraded by Moody's and S&P, such that its Credit Rating is below an Investment Grade (a "Downgrade Event"), then within three (3) Business Days after a request of the other Party, the downgraded Party shall deliver the applicable amount of performance assurance required pursuant to this Article 7 ("Performance Assurance") to the other Party ("Compliant Party").

- (b) If Performance Assurance is required to be posted by a Party pursuant to the immediately preceding paragraph, the following Sections 7.3(b)(i) through 7.3(b)(iv) shall apply:
  - (i) The Compliant Party shall calculate its exposure under this Agreement as soon as practicable after the Downgrade Event, and on a monthly basis thereafter ("Performance Assurance Calculation Date").
  - (ii) All Performance Assurance shall be delivered in the form of: (i) U.S. Dollars delivered by wire transfer of immediately available funds ("Funds"); or (ii) a Letter of Credit from a Qualified Institution (as defined herein). For purposes of determining the amount of Performance Assurance held at any time, a Letter of Credit shall be valued at zero unless it expires more than thirty (30) days after the date of valuation. For purposes of this Agreement, the Parties acknowledge that any Performance Assurance provided by Buyer shall be in the form of Funds as defined in this Section 7.3. For purposes hereof, "Letter(s) of Credit" means one or more irrevocable, transferable standby letters of credit issued by a U.S. commercial bank or a U.S. branch of a foreign bank (which is not an affiliate of either Party) with such bank having a credit rating of at least A- from S&P and A3 from Moody's, having \$1,000,000,000 in assets (a "Qualified Institution"), and otherwise being in a form acceptable to the Party in whose favor the letter of credit is issued. Costs of a Letter of Credit shall be borne by the applicant for such Letter of Credit.
  - (iii) For purposes hereof, it shall be a Letter of Credit Default ("Letter of Credit Default") with respect to an outstanding Letter of Credit, upon the occurrence of any of the following events: (i) the bank issuing the Letter of Credit shall fail to maintain a credit rating of at least "A-" by S&P and "A3" by Moody's, (ii) the bank issuing the Letter of Credit shall fail to comply with or perform its obligations under such Letter of Credit if such failure shall be continuing after the lapse of any applicable grace period; (iii) the bank issuing the Letter of Credit shall disaffirm, disclaim, repudiate or reject, in whole or in part, or challenge the validity of such Letter of Credit; (iv) such Letter of Credit shall fail or cease to be in full force and effect at any time during the term of any outstanding transaction; or (v) the pledgor or the bank issuing the Letter of Credit shall fail to cause the renewal or replacement of the Letter of Credit to the secured party at least thirty (30) Business Days prior to the expiration of such Letter of Credit; provided, however, that no Letter of Credit Default shall occur in any event with respect to a Letter of Credit after the time such Letter of Credit is required to be canceled or returned to the pledgor in accordance with the terms of this Agreement. If a Letter of Credit Default occurs, then the Party which applied for such Letter of Credit shall have five (5) Business Days to cure the event(s) causing the Letter of Credit Default or to replace the Letter of Credit with a substitute Letter of Credit or Funds. Any failure to cure the event(s) causing the Letter of Credit Default or to provide a substitute Letter of Credit or Funds within five (5) Business Days of the event(s) leading to the Letter of Credit Default shall be an Event of Default under Section 7.1(c)(iv).
  - (iv) The Compliant Party will be entitled to hold posted Performance Assurance, provided that the following conditions applicable to it are satisfied: (1) the Compliant Party is not a defaulting Party; (2) the Compliant Party has and maintains an Investment Grade Credit Rating required in Section 7.3(a), as applicable; and (3) the posted Performance Assurance is held only in the United States. For funds held as Performance Assurance by

the Compliant Party, the Interest Rate will be the Federal Funds Rate as from time to time in effect. "Federal Funds Rate" means, for the relevant determination date, the rate opposite the caption "Federal Funds (Effective)" as set forth in the weekly statistical release designated as H.15 (519), or any successor publication, published by the Board of Governors of the Federal Reserve System. Such interest shall be calculated commencing on the date Performance Assurance in the form of cash is received by a Party but excluding the earlier of: (i) the date Performance Assurance in the form of cash is returned to a Party; or (ii) the date Performance Assurance in the form of cash is applied to a pledgor's obligations pursuant to Section 7.3 with the net amount of interest accrued monthly being payable on the third Business Day of the following month. A Party holding Performance Assurance may apply such Performance Assurance, without prior notice to the other party, to satisfy the obligations of the other Party in accordance with Section 7.2. Each Party hereby covenants and agrees that it shall be entitled herein to hold posted Performance Assurance as custodian on its own behalf as a secured party if it meets the criteria set forth above in this Section 7.3. However, if the Party holding Performance Assurance is not eligible to hold posted Performance Assurance pursuant to this Section 7.3, then such Party shall be considered ineligible to hold posted Performance Assurance as a secured party and such posted Performance Assurance shall be maintained as follows: the ineligible secured party will cause all posted Performance Assurance received from the other Party to be segregated from the secured party's own property and identified clearly as Performance Assurance and to be held in an account in which no property of the secured party is held (a "Collateral Account") with a domestic office of a Qualified Institution, each of which accounts may include property of other parties which have delivered posted Performance Assurance to the secured party under other agreements, but will bear a title indicating that the secured party's interest in said account is as a holder of collateral. Such accounts will bear interest at the rate offered by the Qualified Institution. In addition, the secured party may direct the pledgor to transfer or deliver eligible Performance Assurance directly into the secured party's Collateral Account. The secured party shall cause statements concerning the posted Performance Assurance transferred or delivered by the pledgor to be sent to the pledgor on request, which may not be made more frequently than once in each calendar month.

(c) Prior to the Commencement Date and at any time upon the request by Buyer of Seller or by Seller of Buyer, the Party to whom the request is made shall establish that it meets the Credit Requirements by providing (x) a certificate of one of its authorized officers, accompanied by supporting certified financial statements and (y) documentation of its Credit Rating, as applicable. Buyer and Seller shall inform the other Party within one (1) Business Day of any failure to satisfy the Credit Requirements, provided that, in no event, shall the failure of a Party to provide the notice required pursuant to this sentence constitute a default or an Event of Default pursuant to Section 7.1.

#### Section 7.4 Forward Contract

Each Party represents and warrants to the other that it is a "forward contract merchant" within the meaning of the United States Bankruptcy Code, that this Agreement is a "forward contract" within the meaning of the United States Bankruptcy Code, and that the remedies identified in this Agreement, including those specified in Section 7, shall be "contractual rights" as provided for in 11 U.S.C. § 556 as that provision may be amended from time to time.

#### ARTICLE 8. NOTICES, REPRESENTATIVES OF THE PARTIES

Section 8.1 Notices

Any notice, demand, or request required or authorized by this Agreement to be given by one Party to another Party shall be in writing. It shall either be sent by facsimile (with receipt confirmed by telephone), courier, personally delivered (including overnight delivery service) or mailed, postage prepaid, to the representative of the other Party designated in accordance with this Article. Any such notice, demand, or request shall be deemed to be given (i) when sent by facsimile confirmed by telephone, (ii) when actually received if delivered by courier or personal delivery (including overnight delivery service) or (iii) seven (7) days after deposit in the United States mail, if sent by first class mail return receipt requested.

Notices and other communications by Seller to the Buyer shall be addressed to:

Mr. Robert S. Furino Vice President Unitil Energy Systems, Inc. 6 Liberty Lane West Hampton, NH 03842 (603) 773-6452 (phone) (603) 773-6652 (fax)

and

Notices concerning Article 7 shall also be sent to:

Mr. Todd Diggins Director of Finance Unitil Energy Systems, Inc. 6 Liberty Lane West Hampton, NH 03842 (603) 773-6612 (phone) (603) 773-6812 (fax)

Notices and other communications by the Buyer to Seller shall be addressed to:

[Name]
[Company]
[Address]

[City, State & Zip]
[Phone]
[FAX]

Any Party may change its representative or address for notices by written notice to the other Party; however such notice shall not be effective until it is received by the other Party.

#### Section 8.2 Authority of Representative

The Parties' representatives shall have full authority to act for their respective Party in all matters relating to the performance of this Agreement. Notwithstanding the foregoing, a Party's representative shall not have the authority to amend, modify, or waive any provision of this Agreement unless they are duly authorized officers of their respective entities and such amendment, modification or waiver is made in accordance to Article 17.

#### ARTICLE 9. LIABILITY; INDEMNIFICATION; RELATIONSHIP OF PARTIES

#### Section 9.1 <u>Limitation on Consequential, Incidental and Indirect Damages</u>

EXCEPT AS EXPRESSLY PROVIDED IN THIS AGREEMENT, TO THE FULLEST EXTENT PERMISSIBLE BY LAW, NEITHER THE BUYER NOR SELLER, NOR THEIR RESPECTIVE OFFICERS, DIRECTORS, AGENTS, EMPLOYEES, PARENT OR AFFILIATES, SUCCESSOR OR ASSIGNS, OR THEIR RESPECTIVE OFFICERS, DIRECTORS, AGENTS, OR EMPLOYEES, SUCCESSORS, OR ASSIGNS, SHALL BE LIABLE TO THE OTHER PARTY OR ITS PARENT, SUBSIDIARIES, AFFILIATES, OFFICERS, DIRECTORS, AGENTS, EMPLOYEES, SUCCESSORS OR ASSIGNS, FOR CLAIMS, SUITS, ACTIONS OR CAUSES OF ACTION FOR INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES (INCLUDING ATTORNEY'S FEES OR LITIGATION COSTS EXCEPT AS EXPRESSLY PROVIDED IN 15.2) CONNECTED WITH OR RESULTING FROM PERFORMANCE OR NON-PERFORMANCE OF THIS AGREEMENT, OR ANY ACTIONS UNDERTAKEN IN CONNECTION WITH OR RELATED TO THIS AGREEMENT, INCLUDING ANY SUCH DAMAGES WHICH ARE BASED UPON CAUSES OF ACTION FOR BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND MISREPRESENTATION), BREACH OF WARRANTY, STRICT LIABILITY, STATUTE, OPERATION OF LAW, OR ANY OTHER THEORY OF RECOVERY. THE PROVISIONS OF THIS SECTION SHALL APPLY REGARDLESS OF FAULT AND SHALL SURVIVE TERMINATION, CANCELLATION, SUSPENSION, COMPLETION OR EXPIRATION OF THIS AGREEMENT.

## Section 9.2 <u>Indemnification</u>

(a) Seller agrees to defend, indemnify and save the Buyer, its officers, directors, employees, agents, successors assigns, and Affiliates and their officers, directors, employees and agents harmless from and against any and all third-party claims, suits, actions or causes of action and any resulting losses, damages, charges, costs or expenses, (including reasonable attorneys' fees and court costs), arising from or in connection with any (a) breach of a representation or warranty or

failure to perform any covenant or agreement in this Agreement by Seller, (b) any violation of applicable law, regulation or order by Seller, (c) any act or omission by Seller with respect to this Agreement, first arising, occurring or existing during the term of this Agreement, whether incurred by settlement or otherwise, and whether such claims or actions are threatened or filed prior to or after the termination of this Agreement, except to the extent caused by an act of gross negligence or willful misconduct by an officer, director, agent, employee, or Affiliate of the Buyer or its respective successors or assigns.

- (b) The Buyer agrees to defend, indemnify and save Seller, its officers, directors, employees, agents, successor, assigns, and Affiliates and their officers, directors, employees and agents harmless from and against any and all third-party claims, suits, actions or causes of action and any resulting losses, damages, charges, costs or expenses, (including reasonable attorneys' fees and court costs), arising from or in connection with any (a) breach of representation or warranty or failure to perform any covenant or agreement in this Agreement by said Buyer, (b) any violation of applicable law, regulation or order by said Buyer, (c) any act or omission by the Buyer, with respect to this Agreement first arising, occurring or existing during the term of this Agreement, whether incurred by settlement or otherwise, and whether such claims or actions are threatened or filed prior to or after the termination of this Agreement, except to the extent caused by an act of gross negligence or willful misconduct by an officer, director, agent, employee or Affiliate of Seller or its respective successors or assigns.
- (c) If any Party intends to seek indemnification under this Section from the other Party with respect to any action or claim, the Party seeking indemnification shall give the other Party notice of such claim or action within thirty (30) days of the later of the commencement of, or actual knowledge of, such claim or action; provided, however, that in the event such notice is delivered more than thirty (30) days after the Party seeking indemnification knows of such claim or action, the indemnifying Party shall be relieved of its indemnity hereunder only if and to the extent such indemnifying Party was actually prejudiced by the delay. The Party seeking indemnification shall have the right, at its sole cost and expense, to participate in the defense of any such claim or action. The Party seeking indemnification shall not compromise or settle any such claim or action without the prior consent of the other Party, which consent shall not be unreasonably withheld.

#### Section 9.3 Independent Contractor Status

Nothing in this Agreement shall be construed as creating any relationship between the Buyer and Seller other than that of independent contractors for the sale and delivery of Requirements for Default Service.

#### ARTICLE 10. ASSIGNMENT

#### Section 10.1 General Prohibition Against Assignments

Except as provided in Section 10.2, neither Party shall assign, pledge or otherwise transfer this Agreement or any right or obligation under this Agreement without first obtaining the other Party's written consent, which consent shall not be unreasonably withheld.

#### Section 10.2 Exceptions to Prohibition Against Assignments

(a) Seller may, without the Buyer's prior written consent, collaterally assign this Agreement in connection with financing arrangements provided that any such collateral assignment that

provides for the Buyer to direct payments to the collateral agent (i) shall be in writing, (ii) shall not be altered or amended without prior written notice to the Buyer from both Seller and the collateral agent, and (iii) provided that any payment made by the Buyer to the collateral agent shall discharge the Buyer's obligation as fully and to the same extent as if it had been made to the Seller. Seller must provide the Buyer at least ten (10) days advance written notice of collateral assignment and provide copies of any such assignment and relevant agreements or writings.

- (b) The Buyer may assign all or a portion of its rights and obligations under this Agreement to any Affiliate of the Buyer without consent of Seller.
- (c) Either Party may, upon written notice to the other Party, assign its rights and obligations hereunder, or transfer such rights and obligations by operation of law, to any entity with which or into which such Party shall merge or consolidate or to which such Party shall transfer all or substantially all of its assets, provided that such other entity agrees to assume the rights and obligations hereunder and be bound by the terms hereof and provided further, that such other entity's creditworthiness is equal to or higher than that of the assignor, in which case the assignor shall be relieved of any obligation or liability hereunder as a result of such assignment.

#### ARTICLE 11. SUCCESSORS AND ASSIGNS

This Agreement shall inure to the benefit of and shall be binding upon the Parties hereto and their respective successors and permitted assigns.

#### ARTICLE 12. FORCE MAJEURE

- (a) Force Majeure shall include but not be limited to acts of God, earthquakes, fires, floods, storms, strikes, labor disputes, riots, insurrections, acts of war (whether declared or otherwise), acts of governmental, regulatory or judicial bodies, but if and only to the extent that such event or circumstance (i) directly affects the availability of the transmission or distribution facilities of NEPOOL, the Buyer or an Affiliate of the Buyer necessary to provide service to the Buyer's customers which are taking service pursuant to the Retail Delivery Tariff and (ii) it is not within the reasonable control of, or the result of the negligence of, the claiming Party, and which, by the exercise of due diligence, the claiming Party is unable to overcome or avoid or cause to be avoided. Force Majeure shall not be based on (A) fluctuations in Default Service, (B) the cost to a Party to overcome or avoid, or cause to be avoided, the event or circumstance affecting such Party's performance or (C) events affecting the availability or cost of operating any generating facility.
- (b) To the extent that either Party is prevented by Force Majeure from carrying out, in whole or in part, its obligations hereunder and (i) such Party gives notice and detail of the Force Majeure to the other Party as soon as practicable after the onset of the Force Majeure, including an estimate of its expected duration and the probable impact on the performance of its obligations hereunder; (ii) the suspension of performance is of no greater scope and of no longer duration than is required by the Force Majeure, and (iii) the Party claiming Force Majeure uses commercially reasonable efforts to remedy or remove the inability to perform caused by Force Majeure, then the affected Party shall be excused from the performance of its obligations prevented by Force Majeure. However, neither Party shall be required to pay for any obligation the performance of which is excused by Force Majeure. This paragraph shall not require the settlement of any strike, walkout, lockout or other labor dispute on terms which, in the sole judgment of the Party involved in the

dispute are contrary to its interest. It is understood and agreed that the settlement of strikes, walkouts, lockouts or other labor disputes shall be entirely within the discretion of the Party involved in the dispute.

- (c) No obligations of either Party which arose before the Force Majeure occurrence causing the suspension of performance shall be excused as a result of the Force Majeure.
- (d) Prior to the resumption of performance suspended as a result of a Force Majeure occurrence, the Party claiming the Force Majeure shall give the other Party written notice of such resumption.

#### ARTICLE 13. WAIVERS

No delay or omission in the exercise of any right under this Agreement shall impair any such right or shall be taken, construed or considered as a waiver or relinquishment thereof, but any such right may be exercised from time to time and as often as may be deemed expedient. The waiver of any single breach or default of any term or condition of this Agreement shall not be deemed to constitute the waiver of any other prior or subsequent breach or default of the Agreement or any other term or condition.

#### ARTICLE 14. LAWS AND REGULATIONS

- (a) This Agreement and all rights, obligations, and performances of the Parties hereunder, are subject to all applicable federal and state laws, and to all duly promulgated orders and other duly authorized action of governmental authorities having jurisdiction hereof.
- (b) The rates, terms and conditions contained in this Agreement are not subject to change under Section 205 of the Federal Power Act as that section may be amended or superseded, absent the mutual written agreement of the Parties. Each Party irrevocably waives its rights, including its rights under §§ 205-206 of the Federal Power Act, unilaterally to seek or support a change in the rate(s), charges, classifications, terms or conditions of this Agreement or any other agreements entered into in connection with this Agreement. By this provision, each Party expressly waives its right to seek or support: (i) an order from FERC finding that the market-based rate(s), charges, classifications, terms or conditions agreed to by the Parties in the Agreement are unjust and unreasonable; or (ii) any refund with respect thereto. Each Party agrees not to make or support such a filing or request, and that these covenants and waivers shall be binding notwithstanding any regulatory or market changes that may occur hereafter.
- (c) Absent the agreement of all Parties to a proposed change, the standard of review for changes to this Agreement proposed by a non-party or the Commission acting sua sponte shall be the "public interest" standard of review set forth in United Gas Pipe Line Co. v. Mobile Gas Service Corp., 350 U.S. 332 (1956) and Federal Power Commission v. Sierra Pacific Power Co., 350 U.S. 348 (1956) (the "Mobile-Sierra" doctrine).

#### ARTICLE 15. INTERPRETATION, DISPUTE RESOLUTION

## Section 15.1 Governing Law

The Agreement shall be governed by and construed and performed in accordance with the laws of the State of New Hampshire, without giving effect to its conflict of laws principles.

#### Section 15.2 Dispute Resolution

All disputes between the Buyer and Seller under this Agreement shall be referred, upon notice by one Party to the other Party, to a senior manager of Seller designated by Seller, and a senior manager of the Buyer designated by the Buyer, for resolution on an informal basis as promptly as practicable. In the event the designated senior managers are unable to resolve the dispute within ten (10) days of receipt of the notice, or such other period to which the Parties may jointly agree, such dispute shall be submitted to arbitration and resolved in accordance with the arbitration procedure set forth in this Section. The arbitration shall be conducted in Concord, New Hampshire before a single neutral arbitrator mutually agreed to and appointed by the Parties. If the Parties fail to agree upon a single arbitrator within ten (10) days of the referral of the dispute to arbitration, Seller and the Buyer shall each choose one arbitrator, who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within ten (10) days select a third arbitrator to act as chairman of the arbitration panel. In either case, the arbitrator(s) shall be knowledgeable in electric utility matters, including wholesale power transactions and power market issues, and shall not have any current or past material business or financial relationships with either Party or a witness for either Party and shall not have a direct or indirect interest in any Party or the subject matter of the arbitration. The arbitrator(s) shall afford each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the thencurrent arbitration rules of the CPR Institute for Dispute Resolution (formerly known as the Center for Public Resources), unless otherwise mutually agreed by the Parties. There shall be no formal discovery conducted in connection with the arbitration unless otherwise mutually agreed by the Parties; provided, however, that the Parties shall exchange witness lists and copies of any exhibits that they intend to utilize in their direct presentations at any hearing before the arbitrator(s) at least ten (10) days prior to such hearing, along with any other information or documents specifically requested by the arbitrator(s) prior to the hearing. Any offer made and the details of any negotiations to resolve the dispute shall not be admissible in the arbitration or otherwise. Unless otherwise agreed, the arbitrator(s) shall render a decision within ninety (90) days of his, her or their appointment and shall notify the Parties in writing of such decision and the reasons therefore, and shall make an award apportioning the payment of the costs and expenses of arbitration among the Parties; provided, however, that each Party shall bear the costs and expenses of its own attorneys, expert witnesses and consultants unless the arbitrator(s), based upon a determination of good cause, awards attorneys fees and legal and other costs to the prevailing Party. arbitrator(s) shall be authorized only to interpret and apply the provisions of this Agreement and shall have no power to modify or change the Agreement in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction, subject expressly to Section 15.3. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards set forth in the Federal Arbitration Act and/or the Administrative Dispute Resolution Act. Nothing in this paragraph shall impair the ability of a Party to exercise any right or remedy it has under this Agreement, including those in Article 7.

#### Section 15.3 <u>Venue; Waiver of Jury Trial</u>

Each Party hereto irrevocably (i) submits to the exclusive jurisdiction of the federal and state courts located in the State of New Hampshire; (ii) waives any objection which it may have to the laying of venue of any proceedings brought in any such court; and (iii) waives any claim that such proceedings have been brought in an inconvenient forum. EACH PARTY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY SUIT, ACTION OR PROCEEDING RELATING TO THIS AGREEMENT.

#### ARTICLE 16. SEVERABILITY

Any provision declared or rendered unlawful by any applicable court of law or regulatory agency or deemed unlawful because of a statutory change will not otherwise affect the remaining provisions and lawful obligations that arise under this Agreement. If any provision of this Agreement, or the application thereof to any Party or any circumstance, is invalid or unenforceable, (a) a suitable and equitable provision shall be substituted therefor in order to carry out, so far as may be valid and enforceable, the intent and purpose of such invalid or unenforceable provision, and (b) the remainder of this Agreement and the application of such provision or circumstances shall not be affected by such invalidity or unenforceability.

#### ARTICLE 17. MODIFICATIONS

No modification or amendment of this Agreement will be binding on any Party unless it is in writing and signed by both Parties.

#### ARTICLE 18. ENTIRE AGREEMENT

This Agreement, including the Appendices, the tariffs and agreements referred to herein or therein, embody the entire agreement and understanding of the Parties in respect of the transactions contemplated by this Agreement. There are no restrictions, promises, representations, warranties, covenants or undertakings, other than those expressly set forth or referred to herein or therein. It is expressly acknowledged and agreed that there are no restrictions, promises, representations, warranties, covenants or undertakings contained in any material provided or otherwise made available by the Seller or the Buyer to each other. This Agreement supersedes all prior agreements and understandings between the Parties with respect to the transactions contemplated hereby.

#### ARTICLE 19. COUNTERPARTS

This Agreement may be executed in any number of counterparts, and each executed counterpart shall have the same force and effect as an original instrument.

#### ARTICLE 20. INTERPRETATION; CONSTRUCTION

The article and section headings contained in this Agreement are solely for the purpose of reference, are not part of the agreement of the Parties and shall not in any way affect the meaning or interpretation of this Agreement. For purposes of this Agreement, the term "including" shall mean "including, without limitation". The Parties acknowledge that, each Party and its counsel have reviewed and or revised this Agreement and that any rule of construction to the effect that any ambiguities are to be resolved against the drafting Party shall not be employed in the interpretation of this Agreement, and it is the result of joint discussion and negotiation.

#### ARTICLE 21. REPRESENTATIONS; WARRANTIES AND COVENANTS

Each Party represents to the other Party, upon execution and continuing throughout the term of this Agreement, as follows:

- (a) It is duly organized in the form of business entity set forth in the first paragraph of this Agreement, validly existing and in good standing under the laws of its state of its organization and has all requisite power and authority to carry on its business as is now being conducted, including all regulatory authorizations as necessary for it to legally perform its obligations hereunder.
- (b) It has full power and authority to execute and deliver this Agreement and to consummate and perform the transactions contemplated hereby. This Agreement has been duly and validly executed and delivered by it, and, assuming that this Agreement constitutes a valid and binding agreement of the other Party, constitutes its valid and binding agreement, enforceable against it in accordance with its terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and similar laws of general applicability relating to or affecting creditors' rights and to general equity principles.
- (c) Such execution, delivery and performance do not violate or conflict with any law applicable to it, any provision of its constitutional documents, or the terms of any note, bond, mortgage, indenture, deed of trust, license, franchise, permit, concession, contract, lease or other instrument to which it is bound, any order or judgment of any court or other agency of government applicable to it or any of its assets or any contractual restriction binding on or affecting it or any of its assets.
- (d) No declaration, filing with, notice to, or authorization, permit, consent or approval of any governmental authority is required for the execution and delivery of this Agreement by it or the performance by it of its obligations hereunder, other than such declarations, filings, registrations, notices, authorizations, permits, consents or approvals which, if not obtained or made, will not, in the aggregate, have a Material Adverse Effect.
- (e) Neither the execution and delivery of this Agreement by it will nor the performance by it of its obligations under this Agreement will or does (i) conflict with or result in any breach of any provision of its Governing Documents, (ii) result in a default (or give rise to any right of termination, cancellation or acceleration) under any of the terms, conditions or provisions of any note, bond, mortgage, indenture, license, agreement or other instrument or obligation to which it or any of its subsidiaries is a party or by which it or any of its subsidiaries is bound, except for such defaults (or rights of termination, cancellation or acceleration) as to which requisite waivers or consents have been obtained or which, in the aggregate, would not have a Material Adverse Effect; or (iii) violate any order, writ, injunction, decree, statute, rule or regulation applicable to it, which violation would have a Material Adverse Effect.

- (f) There are no claims, actions, proceedings or investigations pending or, to its knowledge, threatened against or relating to it before any governmental authority acting in an adjudicative capacity relating to the transactions contemplated hereby that could have a Material Adverse Effect. It is not subject to any outstanding judgment, rule, order, writ, injunction or decree of any court or governmental authority which, individually or in the aggregate, would create a Material Adverse Effect.
- (g) There are no bankruptcy, insolvency, reorganization, receivership or other similar proceedings pending or being contemplated by it, or of its knowledge threatened against it.
- (h) It is a signatory to the Market Participant Service Agreement and is in compliance with all ISO Rules, including the ISO Financial Assurance Policy.
- (i) It is acting for its own account, has made its own independent decision to enter into this Agreement and as to whether this Agreement is appropriate or proper for it based upon its own judgment, is not relying upon the advice or recommendations of the other Party hereto, and is capable of assessing the merits of and understanding, and understands and accepts, the terms, conditions and risks of this Agreement.

#### ARTICLE 22. CONSENTS AND APPROVALS

The Parties shall cooperate so that each Party may take such actions as necessary and required for the other Party to effectuate and comply with this Agreement including to (i) promptly prepare and file all necessary documentation, (ii) effect all necessary applications, notices, petitions and filings and execute all agreements and documents, and (iii) use all commercially reasonable efforts to obtain all necessary consents, approvals and authorizations of all other entities, in the case of each of the foregoing clauses (i), (ii) and (iii), necessary or advisable to consummate the transactions contemplated by this Agreement. The Buyer shall have the right to review and approve in advance all characterizations of the information relating to the transactions contemplated by this Agreement which appear in any filing, press release or public announcement made in connection with the transactions contemplated hereby.

#### ARTICLE 23. CONFIDENTIALITY

Seller acknowledges that Seller's identity will be publicly disclosed in the NHPUC order approving or denying the Buyer's inclusion in retail rates of the amounts payable by Buyer to Seller under this Agreement as described in Section 3.8. Neither Seller nor the Buyer shall provide copies of this Agreement or disclose the contents thereof (the "Confidential Terms") to any third party without the prior written consent of the other Party; provided, however, that either Party may provide a copy of the Confidential Terms, in whole or in part to (1) any regulatory agency requesting and/or requiring such Confidential Terms, provided that any such disclosure must include a request for confidential treatment of the Confidential Terms, and (2) an Affiliate if related to the Party's performance of its obligations hereunder, provided that such Affiliate agrees to treat the Confidential Terms as confidential in accordance with this clause.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the Parties have caused their duly authorized representatives to execute this Agreement on their behalf as of the date first above written.

Robert S. Furino	
Vice President	
PANY]	
J	

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# APPENDIX A

# Service Requirements Matrix By Service Requirement, Load Asset Name and ID, Load Responsibility, and Applicable Period

[List All Active Transactions]

For service pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	Load Asset Name and ID	Load Responsibility	Schedule 1	Schedule 2
UES Small Default Load	Small Customer Group, 11451	100%	June 1, 2022	November 30, 2022
UES Medium Default Load	Medium Customer Group, 11452	100%	June 1, 2022	November 30, 2022
UES Large Customer Group	UES Large Default Load, 10019	100%	June 1, 2022	November 30, 2022

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# APPENDIX B

# Monthly Contract Rate by Service Requirement Dollars per MWh

# For service pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	June-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Small Customer Group (6 months)						
Service Requirement	June-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Medium Customer Group (6 months)						

The following are Fixed Monthly Adders.  Please refer to Section 5.1 for calculation of Contract Rate						
Service Requirement	June-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Large Customer Group (6 months)						

# **APPENDIX C**

# POINTS OF INTERCONNECTION, REFERRED TO AS DELIVERY POINT

Points of Interconnection	Nominal Delivery Voltage	Metering Point	<u>Nominal</u> <u>Metering Voltage</u>
Garvins (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV
New Hampshire Hydro Lower Penacook Falls (2) Upper	3φ, 4 wire, 19.9/34.5 kV 3φ, 4 wire,	At Connection Point  At Connection Point	3φ, 4 wire, 19.9/34.5 kV 3φ, 4 wire,
Penacook Falls (2) Briar Hydro (2)	19.9/34.5 kV 3φ, 4 wire, 19.9/34.5 kV	At Connection Point	19.9/34.5 kV 3φ, 4 wire, 19.9/34.5 kV
SES Concord Company L.P. (2)	3φ, 4 wire, 19.9/34.5 kV	At Connection Point	3φ, 4 wire, 19.9/34.5 kV
Broken Ground	3φ, 115 kV	At Curtisville Sending Point	3φ, 115 kV
Penacook (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV
Guinea (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV
Kingston (1)	3φ, 115 kV	At Peaslee Sending Point	3φ, 115 kV
Timber Swamp (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV
Great Bay (1)	3φ, 4 wire, 19.9/34.5 kV	At Delivery Point	3φ, 4 wire, 19.9/34.5 kV

<sup>(1)</sup> Substation delivery point

<sup>(2)</sup> Small power producer purchase delivery points.

# AMENDMENT No. [X] OF

#### POWER SALES AGREEMENT

This Amendment No. [X] ("Amendment No. [X]"), dated and effective as of **March 23**, **2022** (the "Effective Date"), amends the Power Sales Agreement, dated [DATE] (the "Agreement") between UNITIL ENERGY SYSTEMS, INC. ("Buyer") and [COMPANY NAME] ("Seller") (collectively, the "Parties").

Notwithstanding Article 21(d) of the Agreement or anything else to the contrary in either this Amendment No. [X] or the Agreement, the Parties' obligations under this Amendment No. [X] are subject to Buyer obtaining approval from the NHPUC of the inclusion in retail rates of the amounts payable by Buyer to Seller under this Amendment No. [X], without material modification to the obligations of either Party under this Amendment No. [X]. Buyer shall use its best efforts to obtain prompt approval of such rates. If Buyer is unable to obtain NHPUC approval by **April 8, 2022**, Buyer and Seller agree to review the status of such approval process and determine whether to continue to pursue the transaction contemplated in this Amendment No. [X]. If the Parties cannot agree as to how to continue such transaction, this Amendment No. [X] shall terminate and be null and void without liability to either Party.

Buyer shall bear the cost of the NHPUC filing described above except for any costs associated with Seller's intervention. Buyer shall request that the NHPUC give confidential treatment to the terms of this Amendment No. [X], which is the result of a competitive solicitation held by Buyer.

The Parties hereby agree to further amend the Agreement as follows:

- 1. Appendix A is amended as attached hereto. The amendment adds a new section reflecting the results of the RFP issued by Buyer on February 22, 2022.
- 2. Appendix B is amended as attached hereto. The amendment adds pricing associated with the results of the RFP issued by Buyer on February 22, 2022.
- 3. Appendix B indicates that the prices listed for the Large Customer Group are Fixed Monthly Adders, therefore the Contract Rate will be calculated as the sum of the Average Weighted RT LMP and the Fixed Monthly Adder as shown in Equation 1. The Average Weighted RT LMP is calculated in accordance with Equation 2.

## **Equation 1**

Contract Rate = Average Weighted RT LMP + Fixed Monthly Adder

The Average Weighted RT LMP shall be calculated using the MWH of Delivered Energy reported for the Large Customer Group default service load asset, Load Asset number 10019, and the hourly real time locational marginal prices ("RT

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LMP") for the settlement location of Load Asset 10019, which is currently the New Hampshire Load Zone (4002). The Average Weighted RT LMP equals the sum of the products of the RT LMP and the Delivered Energy (MWH) of Load Asset 10019 in each hour of the month of service, divided by the sum of Delivered Energy (MWH) of Load Asset 10019 for the month of service, as shown in Equation 2.

#### **Equation 2**

 $Average \ Weighted \ RT \ LMP \\ = \frac{Sum \ [hourly \ RT \ LMP \ * \ hourly \ Delivered \ Energy \ (MWH) \ of \ Load \ Asset \ 10}{Sum \ [hourly \ Delivered \ Energy \ (MWH) \ of \ Load \ Asset \ 10019]}$ 

The Large Customer Group prices listed in Appendix B are Fixed Monthly Adders requiring the Contract Rate to be calculated as described in Equation 1 and Equation 2, and the Contract Rate will be determined and affirmed by both Buyer and Seller by the third business day following the month of service. Once agreed upon, the Contract Rate for the month of service shall be final and shall not be subject to change in the event that either the New Hampshire RT LMP or the Delivered Energy (MWH) of Load Asset 10019 are subsequently revised or restated.

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IN WITNESS WHEREOF, the Parties have caused their duly authorized representatives to execute and deliver this Amendment No. [X] to the Agreement effective as of the Effective Date.

_		
	Robert S. Furino	
	Vice President	
er]	]	

Its

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### **APPENDIX A**

# Service Requirements Matrix By Service Requirement, Load Asset Name and ID, Load Responsibility, and Applicable Period

[List All Active Transactions]

# For service pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	Load Asset Name and ID	Load Responsibility	Schedule 1	Schedule 2
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UES Medium Default Load	Medium Customer Group, 11452	100%	June 1, 2022	November 30, 2022
UES Large Customer Group	UES Large Default Load, 10019	100%	June 1, 2022	November 30, 2022

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# APPENDIX B

# Monthly Contract Rate by Service Requirement Dollars per MWh

[List All Active Transactions]

# For service pursuant to Buyer's RFP issued on February 22, 2022

Service Requirement	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Small Customer Group (6 months)						

Service Requirement	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Medium Customer Group (6 months)						

The following are Fixed Monthly Adders.  Please refer to Section 5.1 for calculation of Contract Rate						
Service Requirement	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
100% UES Large Customer Group (6 months)						

#### MUTUAL CONFIDENTIAL NON-DISCLOSURE AGREEMENT

This MUTUAL CONFIDENTIAL NON-DISCLOSURE AGRE	EEMENT is made as of
, 201_ between	("Company"),
having a place of business at	, and Unitil Energy
Systems, Inc. ("Unitil") having a principal place of business at	6 Liberty Lane West,
Hampton, NH 03842, (together "the Parties," individually "a Pa	arty"). The Parties hereby
agree that disclosures of Confidential Information shall be gove	erned by the following
terms and conditions. A Party receiving Confidential Information	on under this Agreement is
referred to as "Recipient" and a Party disclosing Information is	referred to as "Discloser."

1. **Definition of Confidential Information**. "Confidential Information" means any oral, written, graphic or machine-readable information including, but not limited to, any and all confidential and proprietary information relating to the Purpose, the Discloser, its affiliates or subsidiaries, and including all information or material that has or could have commercial value or other use in the business or the prospective business of the Discloser, disclosed by the Discloser to the Recipient in connection with this Agreement and the Purpose, whether committed to memory or embodied in writing or other tangible form. Confidential Information includes, without limitation, contracts, fees, accounts, records, customer and client information, agreements and any other incident of the Discloser's business disclosed to the Recipient, in each case provided in connection with this Agreement and Purpose. Confidential Information does not include any information which Recipient can document: (a) is known to Recipient or any of its Representatives on the non-confidential basis prior to the time of disclosure; (b) is independently developed by Recipient without use of the Confidential Information; (c) becomes known to Recipient from another source without confidentiality restriction on subsequent disclosure or use; (d) is or becomes part of the public domain through no wrongful act of Recipient; or (e) is information approved for disclosure or release by the Recipient by written authorization from the Discloser. Confidential Information does not include any source code or technical information subject to a license that meets the requirements of the Open source Definition. The Open Source Definition is found at http://www.opensource.org/osd.html.

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Exhibit 2
Schedule JMP-2
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- 2. **Purpose for Disclosure.** The parties may only use Confidential Information for the following purposes (the "Purpose"):
  - Negotiation of potential power supply and/or renewable energy credits purchase and sales transactions ("Transactions").
  - Negotiation of a potential base contract(s) or master agreement(s) pertaining to any Transactions ("Base Contracts").
  - Evaluation of either Parties creditworthiness in the context of either potential or existing Transactions and/or Base Contracts.
- 3. Non-Disclosure of Confidential Information. Recipient agrees: (i) to use the same degree of care, but no less than a reasonable degree of care, to protect against the unauthorized disclosure of Discloser's Confidential Information as it uses to protect its own Confidential Information; (ii) not to divulge any such Confidential Information or any information derived therefrom to any third person; (iii) not to make any use whatsoever at any time of such Confidential Information except as necessary in accordance with the Purpose; (iv) not to copy or reverse engineer any such Confidential Information; and (v) not to export or re-export (within the meaning of U.S. or other export control laws or regulations) any such Confidential Information or product thereof. Recipient agrees to disclose Confidential Information only to its directors, officers, employees, consultants, agents or independent contractors (its "Representatives") with a direct need to know to effect the Purpose, and who are bound by legally enforceable obligations of confidentiality no less restrictive than the terms of this Agreement. Recipient shall not remove the proprietary notices from Confidential Information. Each Party agrees to promptly notify the other Party in writing of any misuse or misappropriation of Confidential Information of the other Party of which it becomes aware.
- 4. Mandatory Disclosure. In the event that Recipient or its Representatives is requested or required by any competent judicial, governmental or regulatory body or by legal process or applicable regulations or laws to disclose any of the Confidential Information of Discloser, Recipient shall give prompt notice so that Discloser may seek a protective order or other appropriate relief. If such protective order is not

- obtained, Recipient shall disclose only that portion of the Confidential Information that its counsel advises that it is legally required to disclose.
- 5. Remedies. Recipient acknowledges and agrees that due to the unique nature of Discloser's Confidential Information, there may be no adequate remedy at law for any breach of Recipient's obligations hereunder, which breach may result in irreparable harm to the Discloser and therefore, that upon any such breach of any threat thereof, the Discloser shall be entitled to seek appropriate equitable relief in addition to whatever remedies it might have at law.
- 6. Term. The foregoing commitments of each Party shall survive any termination of the Purpose, and shall remain in effect with respect to any particular Confidential Information unless and until the Recipient can document that one of the exceptions stated in Section 1 applies, or unless mutually agreed, as evidenced by writing, to a shorter period.
- 7. **No Additional Agreements; No Prohibition on Agreements**. Nothing herein shall obligate either Party to disclose any Confidential Information or negotiate or enter into any agreement or relationship with the other Party. Nothing herein shall prohibit a Party from entering into any arrangement or agreement with a third party.
- 8. **No Warranty**. The Parties understand and agree that Confidential Information is provided "as is"; neither Party shall have any responsibility to the other based on any claim that any information furnished hereunder was incorrect, incomplete, or defective in any way. Neither Party makes any warranties, whether express, implied or statutory, regarding the sufficiency of the information disclosed for any purpose, including warranties of merchantability, fitness for a particular purpose, and non-infringement.
- 9. **General.** (a) <u>Assignment.</u> This Agreement is not assignable or transferable by either Party; any attempted assignment will be void and without effect, unless such assignment is agreed to in writing by both Parties. (b) <u>No Other Rights.</u> No rights, title, license of any kind in any Confidential Information is provided hereunder, either expressly or by implication, estoppel or otherwise. (c) <u>No Agency.</u> This Agreement does not create any agency or partnership relationship. (d) <u>No Waiver.</u> No waiver of

any provision of this Agreement, or a breach of this Agreement shall be effective unless it is in writing, signed by the Party waiving the provision or the breach. No waiver of a breach of this Agreement (whether express or implied) shall constitute a waiver of a subsequent breach of this Agreement. (e) Choice of Law. This Agreement will be governed by and interpreted in accordance with the laws of the State of New Hampshire, excluding its choice of laws rules. (f) Complete Agreement. This Agreement constitutes the complete agreement between the Parties on the subject matter identified herein. Any modifications to this Agreement must be made in writing and signed by both Parties.

Unitil Energy Systems, Inc.	(Company)
Ву:	Ву:
NAME (PRINT OR TYPE)	NAME (PRINT OR TYPE)
TITLE:	TITLE:
Date:	Date:

# Unitil Energy Systems, Inc. Customer Migration Report

# RETAIL SALES (kWh) by CUSTOMER CLASS Competitive Generation Sales

Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Feb-21	4,170,059	10,982,775	21,550,828	264,772	36,968,434
Mar-21	4,147,182	11,693,985	23,288,857	266,555	39,396,579
Apr-21	3,037,129	10,017,074	20,951,523	261,384	34,267,110
May-21	2,933,500	10,423,956	21,710,128	261,483	35,329,067
Jun-21	3,609,781	12,160,749	24,078,622	254,935	40,104,087
Jul-21	4,142,614	12,963,006	24,870,237	257,551	42,233,408
Aug-21	4,111,631	13,072,973	25,457,909	261,350	42,903,863
Sep-21	3,932,542	12,748,683	25,789,135	261,177	42,731,537
Oct-21	2,813,733	10,607,662	21,676,792	258,308	35,356,495
Nov-21	2,881,974	9,826,586	20,296,267	255,736	33,260,563
Dec-21	3,700,400	10,638,778	21,522,291	252,960	36,114,429
Jan-22	4,331,914	11,373,471	21,817,414	251,656	37,774,455
Feb-22	4,023,246	10,949,217	21,792,206	252,992	37,017,661

# RETAIL SALES (kWh) by CUSTOMER CLASS

Total Sales

			otal Calco		
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Feb-21	47,028,445	24,511,887	25,812,410	580,023	97,932,765
Mar-21	47,108,539	26,061,521	27,626,162	503,479	101,299,701
Apr-21	34,853,776	21,236,355	24,806,383	579,895	81,476,409
May-21	33,843,374	21,828,192	25,750,269	581,813	82,003,648
Jun-21	43,474,063	26,241,575	28,940,957	568,583	99,225,178
Jul-21	50,786,739	28,410,304	30,282,704	571,860	110,051,607
Aug-21	50,902,470	29,195,229	30,963,896	578,180	111,639,775
Sep-21	49,549,260	28,366,436	31,233,773	577,926	109,727,395
Oct-21	34,598,039	23,022,256	26,570,782	574,956	84,766,033
Nov-21	34,569,087	21,673,292	24,643,173	571,148	81,456,700
Dec-21	44,465,313	24,823,960	26,229,003	567,396	96,085,672
Jan-22	51,683,735	27,415,416	26,241,532	562,095	105,902,778
Feb-22	47,617,490	26,810,354	25,990,364	558,907	100,977,115

# RETAIL SALES (kWh) by CUSTOMER CLASS

Competitive Generation Sales as a Percentage of Total Sales

			lee de d'i creentage		
Month	DOMESTIC REGULAR GENERAL		LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Feb-21	8.9%	44.8%	83.5%	45.6%	37.7%
Mar-21	8.8%	44.9%	84.3%	52.9%	38.9%
Apr-21	8.7%	47.2%	84.5%	45.1%	42.1%
May-21	8.7%	47.8%	84.3%	44.9%	43.1%
Jun-21	8.3%	46.3%	83.2%	44.8%	40.4%
Jul-21	8.2%	45.6%	82.1%	45.0%	38.4%
Aug-21	8.1%	44.8%	82.2%	45.2%	38.4%
Sep-21	7.9%	44.9%	82.6%	45.2%	38.9%
Oct-21	8.1%	46.1%	81.6%	44.9%	41.7%
Nov-21	8.3%	45.3%	82.4%	44.8%	40.8%
Dec-21	8.3%	42.9%	82.1%	44.6%	37.6%
Jan-22	8.4%	41.5%	83.1%	44.8%	35.7%
Feb-22	8.4%	40.8%	83.8%	45.3%	36.7%

**TOTAL** 

# Unitil Energy Systems, Inc. **Customer Migration Report**

#### **CUSTOMER COUNT by CLASS** Customers Served by Competitive Generation

Month	DOMESTIC	REGULAR GENERAL	OUTDOOR LIGHTING	TOTAL	
Feb-21	5,576	2,781	125	297	8,779
Mar-21	5,550	2,779	125	297	8,751
Apr-21	5,537	2,784	125	296	8,742
May-21	5,520	2,781	126	296	8,723
Jun-21	5,511	2,811	130	339	8,791
Jul-21	5,481	2,798	129	334	8,742
Aug-21	5,442	2,796	129	333	8,700
Sep-21	5,395	2,789	127	333	8,644
Oct-21	5,335	2,787	127	333	8,582
Nov-21	5,201	2,735	127	323	8,386
Dec-21	5,222	2,719	129	322	8,392
Jan-22	5,232	2,704	130	323	8,389
Feb-22	5,369	2,722	131	324	8,546

#### **CUSTOMER COUNT by CLASS** Total Customers

		1014	1 Odotomoro		
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	
Feb-21	67,019	10,792	163	1,539	
Mar-21	67,085	10,786	163	1,538	
Apr-21	67,242	10,813	163	1,536	
May-21	68,223	10,946	164	1,537	
Jun-21	68,271	11,252	168	1,646	
Jul-21	68,312	11,258	168	1,645	
	00.004	44.00=	400	4 000	

#### 79,513 79,572 79,754 80,870 81,337 81,383 81,406 Aug-21 68,334 11,265 168 1,639 Sep-21 68,165 11,267 81,239 168 1,639 Oct-21 67,356 11,162 168 80,324 1,638 Nov-21 67,375 11,156 168 80,336 1,637 Dec-21 67,338 11,154 167 80,294 1,635 Jan-22 67,350 11,159 168 1,633 80,310 Feb-22 67,410 11,167 169 1,632 80,378

# CUSTOMER COUNT by CLASS

Percentage of Customers Served by Competitive Generation

r ercentage of Gustomers Gerveu by Competitive Generation												
Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL							
Feb-21	8.3%	25.8%	76.7%	19.3%	11.0%							
Mar-21	8.3%	25.8%	76.7%	19.3%	11.0%							
Apr-21	8.2%	25.7%	76.7%	19.3%	11.0%							
May-21	8.1%	25.4%	76.8%	19.3%	10.8%							
Jun-21	8.1%	25.0%	77.4%	20.6%	10.8%							
Jul-21	8.0%	24.9%	76.8%	20.3%	10.7%							
Aug-21	8.0%	24.8%	76.8%	20.3%	10.7%							
Sep-21	7.9%	24.8%	75.6%	20.3%	10.6%							
Oct-21	7.9%	25.0%	75.6%	20.3%	10.7%							
Nov-21	7.7%	24.5%	75.6%	19.7%	10.4%							
Dec-21	7.8%	24.4%	77.2%	19.7%	10.5%							
Jan-22	7.8%	24.2%	77.4%	19.8%	10.4%							
Feb-22	8.0%	24.4%	77.5%	19.9%	10.6%							

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 RPS Compliance Cost Estimates, Non-G1 Customers

 RPS Obligation
 Market Price Assumptions
 Non-G1 Customer Costs

 2
 3
 4
 5
 2
 3
 4
 5
 7

					<u> </u>			_			•										
Year	Month	Class I*	Class I Carve Out	Class II	Class	Class IV	Cla	ıss I*	Class I Carve Out	Class II	Class III	Class IV	Non-G1 Sales (MWH)	Class I*	Class I Carve Out	Class II	Class III	Class IV	RPS Cost		Cost \$/MWH
2022	Jun-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$	36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	46,986	\$ 177,854	\$ 25,241	\$ 12,087	\$ 131,561	\$ 18,325	\$ 365,0	69	\$ 7.77
2022	Jul-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$	36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	58,654	\$ 222,020	\$ 31,509	\$ 15,089	\$ 164,231	\$ 22,875	\$ 455,7	25	\$ 7.77
2022	Aug-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$	36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	66,136	\$ 250,340	\$ 35,528	\$ 17,013	\$ 185,180	\$ 25,793	\$ 513,8	54	\$ 7.77
2022	Sep-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$	36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	53,058	\$ 200,838	\$ 28,503	\$ 13,649	\$ 148,563	\$ 20,693	\$ 412,2	46	\$ 7.77
2022	Oct-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$	36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	44,603	\$ 168,835	\$ 23,961	\$ 11,474	\$ 124,889	\$ 17,395	\$ 346,5	55	\$ 7.77
2022	Nov-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$	36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	48,016	\$ 181,751	\$ 25,794	\$ 12,352	\$ 134,444	\$ 18,726	\$ 373,0	67	\$ 7.77

<sup>\*</sup>Class I is the net requirement which is the gross requirement less the Class I Thermal Carve-Out requirement. 2022 - 12.3% - 2.0%

UES Default Service RFP Issued February 22, 2022 For Loads to be Served beginning June 1, 2022 RPS Compliance Cost Estimates, G1 Customers

RPS Ob	ligation	2		3	4	5	Market Pi 2	rice Assur	mptions 3	4	5	G1 Custo	mer	Costs							
Year	Month	Class I*	Class I Carve Out	Class	Class	Class IV	Class I*	Class I Carve Out	Class II	Class III	Class IV	G1 Sales (MWH)	C	Class I*	Class I Carve Out	Class II	C	lass III	Class IV	RPS Cost	ost //WH
2022	Jun-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$ 36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	4,801	\$	18,173	\$ 2,579	\$ 1,235	\$	13,443	\$ 1,872	\$ 37,303	\$ 7.77
2022	Jul-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$ 36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	5,225	\$	19,778	\$ 2,807	\$ 1,344	\$	14,630	\$ 2,038	\$ 40,597	\$ 7.77
2022	Aug-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$ 36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	5,531	\$	20,937	\$ 2,971	\$ 1,423	\$	15,487	\$ 2,157	\$ 42,976	\$ 7.77
2022	Sep-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$ 36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	5,061	\$	19,156	\$ 2,719	\$ 1,302	\$	14,170	\$ 1,974	\$ 39,321	\$ 7.77
2022	Oct-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$ 36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	4,695	\$	17,771	\$ 2,522	\$ 1,208	\$	13,146	\$ 1,831	\$ 36,478	\$ 7.77
2022	Nov-22	10.3%	2.00%	0.70%	8.0%	1.5%	\$ 36.75	\$ 26.86	\$ 36.75	\$ 35.00	\$ 26.00	4,547	\$	17,211	\$ 2,443	\$ 1,170	\$	12,732	\$ 1,773	\$ 35,329	\$ 7.77

<sup>\*</sup>Class I is the net requirement which is the gross requirement less the Class I Thermal Carve-Out requirement. 2022 - 12.3% - 2.0%

UES Default Service RFP Issued February 22, 2022
For Loads to be Served beginning June 1, 2022
Historical Pricing by Customer Group, No Longer Confidential\*

	Non-G1 Purchases (MWH)	Wtd Avg Price	Change Prior Period	Change Prior Year	G1 Purchases (MWH)	Wtd Avg Price	Change Prior Period	Change Prior Year
May-16	44,517		1 0110 4		3,107		1 0110 4	
Jun-16	49,761				4,204	\$ 39.22	-4%	-13%
Jul-16	64,852	\$ 49.26	-43%	-17%	4,752			
Aug-16 Sep-16	65,322 48,103				4,634 4,287	\$ 45.84	17%	-20%
Oct-16	44,255				3,702	Ψ +0.0+	17 70	2070
Nov-16	46,744				3,446			
Dec-16	58,606				3,867	\$ 54.07	18%	18%
Jan-17	56,403	\$ 64.13	30%	-26%	3,558			
Feb-17 Mar-17	49,520 54,432				2,988 3,259	\$ 46.32	-14%	14%
Apr-17	44,403				3,060	Ψ +0.02	1470	1470
Мау-17	45,754				3,396			
Jun-17	44,437				3,363	\$ 47.99	4%	22%
Jul-17	57,777	\$ 63.38	-1%	29%	3,482			
Aug-17 Sep-17	60,381 49,688				3,536 3,330	\$ 57.74	20%	26%
Oct-17	45,808				3,238	Ψ 37.74	2070	2070
Nov-17	46,513				3,105			
Dec-17	62,950				3,302	\$ 112.30	94%	108%
Jan-18	63,909	\$ 88.18	39%	38%	3,703			
Feb-18 Mar-18	49,814 52,363	,			3,082 2,868	\$ 67.49	-40%	46%
Apr-18	46,786				2,545	<b>Ф 67.49</b>	-40%	40%
May-18	45,651				3,135			
Jun-18	51,139				2,998	\$ 65.46	-3%	36%
Jul-18	56,755	\$ 68.93	-22%	9%	4,279			
Aug-18	67,382	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			4,065	ф <b>70.0</b> 7	000/	200/
Sep-18 Oct-18	55,483 52,395				3,865 3,896	\$ 79.97	22%	39%
Nov-18	49,433				3,379			
Dec-18	56,898				3,622	\$ 87.93	10%	-22%
Jan-19	66,712	\$ 103.68	50%	18%	3,584			
Feb-19	59,779	Ψ 100.00	0070	1070	3,414	ф <b>7</b> 0.00	400/	400/
Mar-19 Apr-19	53,969 50,767				3,425 3,303	\$ 76.36	-13%	13%
Мау-19	46,986				3,345			
Jun-19	46,681				3,702	\$ 57.16	-25%	-13%
Jul-19	62,361	\$ 69.32	-33%	1%	4,245			
Aug-19	67,002	Ψ 00.02	0070	170	4,030	Φ 54.40	400/	0.00/
Sep-19 Oct-19	52,879 54,993				3,829 3,861	\$ 51.49	-10%	-36%
Nov-19	48,082				3,342			
Dec-19	55,151				3,586	\$ 68.36	33%	-22%
Jan-20	64,846	\$ 90.14	30%	-13%	3,461			
Feb-20	61,007	Ψ 00.11	0070	1070	3,466	Ф 50.00	040/	000/
Mar-20 Apr-20	54,444 50,230				3,478 3,229	\$ 53.96	-21%	-29%
May-20	46,070				3,244			
Jun-20	52,981				4,559	\$ 47.14	-13%	-18%
Jul-20	65,465	\$ 51.23	-43%	-26%	4,995			
Aug-20	61,604	, J20	. 5 / 5	_3,3	4,678	ф 40.00	20/	00/
Sep-20 Oct-20	56,863 48,292				4,726 4,073	\$ 48.62	3%	-6%
Nov-20	48,417				3,690			
Dec-20	62,281				4,667	\$ 66.69	37%	-2%
Jan-21	62,839	\$ 74.76	46%	-17%	4,304			
Feb-21	62,244	Ψσ	1070	11 70	4,405	ф <b>70.7</b> 4	450/	400/
Mar-21 Apr-21	54,524 51,458				4,261 4,294	\$ 76.71	15%	42%
May-21	47,389				4,622			
Jun-21	50,816				3,997	\$ 58.04	-24%	23%
Jul-21	56,487	\$ 52.71	-29%	3%	4,449			
Aug-21	67,064	~ J/ 1	2373	370	4,622	ф <b>34 3</b> 4	000/	E 40/
Sep-21 Oct-21	60,128 45,181				4,297 3,856	\$ 74.71	29%	54%
Nov-21	47,466		_		3,815			
Dec-21	59,483	\$ 132.36	151%	77%	4,387	\$ 112.96	51%	69%
	· · · · · · · · · · · · · · · · · · ·							

<sup>\*</sup> Historical pricing shown has previously been required to be submitted to FERC under its Electronic Quarterly Reporting requirements.

Docket No. DE 22-017 Exhibit 2

# UNITIL ENERGY SYSTEMS, INC.

# DIRECT TESTIMONY OF LINDA S. MCNAMARA

New Hampshire Public Utilities Commission

Docket No. DE 22-017

March 25, 2022

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### LIST OF SCHEDULES

<b>Schedule LSM-1:</b>	Redline Tariffs
<b>Schedule LSM-2:</b>	Non-G1 Class Retail Rate Calculations - Power Supply Charge
Schedule LSM-3:	Non-G1 Class Retail Rate Calculations - Renewable Portfolio
	Standard Charge
Schedule LSM-4:	G1 Class Retail Rate Calculations - Power Supply Charge
<b>Schedule LSM-5:</b>	G1 Class Retail Rate Calculations - Renewable Portfolio
	Standard Charge
<b>Schedule LSM-6:</b>	Class Bill Impacts

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1	I.	INTRODUCTION
2	Q.	Please state your name and business address.
3	A.	My name is Linda S. McNamara. My business address is 6 Liberty Lane West,
4		Hampton, New Hampshire 03842.
5		
6	Q.	For whom do you work and in what capacity?
7	A.	I am a Senior Regulatory Analyst for Unitil Service Corp. ("USC"), which
8		provides centralized management and administrative services to all Unitil
9		Corporation's affiliates including Unitil Energy Systems, Inc. ("UES").
10		
11	Q.	Please describe your business and educational background.
12	A.	In 1994 I graduated <i>cum laude</i> from the University of New Hampshire with a
13		Bachelor of Science Degree in Mathematics. Since joining USC in June 1994, I
14		have been responsible for the preparation of various regulatory filings, including
15		changes to the default service charges, price analysis, and tariff changes.
16		
17	Q.	Have you previously testified before the New Hampshire Public Utilities
18		Commission ("Commission")?
19	A.	Yes.
20		
21	II.	PURPOSE OF TESTIMONY
22	Q.	What is the purpose of your testimony in this proceeding?

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1	A.	The purpose of my testimony is to present and explain the proposed changes to
2		UES's Default Service Charge ("DSC") effective June 1, 2022 as reflected in the
3		redline tariffs provided as Schedule LSM-1.
4		
5	Q.	Is UES proposing any other tariff changes for effect June 1, 2022?
6	A.	Yes. UES's Summary of Low-Income Electric Assistance Program Discounts,
7		incorporating the proposed June 1 Non-G1 (Residential) DSC, would also be
8		affected by this change. However, because other changes that will affect this
9		page are currently pending in DE 21-030 for effect April 1, 2022, and in DE 19-
10		043 and DE 20-092 for effect May 1, 2022, UES plans to file this in compliance
11		with a Commission order.
12		
13	III.	RETAIL RATE CALCULATIONS
14	Q.	What are the proposed Non-G1 Class DSC?
15	A.	As shown on Schedule LSM-1, Page 1, the proposed Residential Class fixed Non-
16		G1 DSC is \$0.10117 per kWh and the proposed G2 and Outdoor Lighting ("OL")
17		Class fixed Non-G1 DSC is \$0.09370 per kWh for the period June 1, 2022
18		through November 30, 2022. The proposed Residential Class variable Non-G1
19		DSC and the proposed G2 and OL Class variable Non-G1 DSC for this same
20		period are also shown on this page.
21		

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1		The proposed DSC are comprised of two components, as shown on Schedule
2		LSM-1, Page 1: A Power Supply Charge and a Renewable Portfolio Standard
3		("RPS") Charge.
4		
5	Q.	What are the proposed Power Supply Charges and RPS Charge?
6	A.	For the period June 1, 2022 through November 30, 2022, the proposed Residential
7		Class fixed Non-G1 Power Supply Charge is \$0.09679 per kWh, the proposed
8		G2 and OL Class fixed Non-G1 Power Supply Charge is \$0.08932 per kWh, and
9		the proposed fixed Non-G1 RPS Charge is \$0.00438 per kWh. These figures, as
10		well as the variable amounts for the same period, are shown on Schedule LSM-1,
11		Page 1.
12		
13	Q.	How do the proposed Non-G1 fixed DSC rates compare to the Non-G1 fixed
14		DSC rates in effect last summer?
15	A.	The Residential Class fixed Non-G1 DSC in effect last summer, June 2021
16		through November 2021, was \$0.07091 per kWh. The proposed Residential Class
17		fixed Non-G1 DSC of \$0.10117 per kWh is an increase of \$0.03026 per kWh.
18		
19		The G2 and OL Class fixed Non-G1 DSC in effect last summer, June 2021
20		through November 2021, was \$0.05992 per kWh. The proposed G2 and OL Class
21		fixed Non-G1 DSC of \$0.09370 per kWh is an increase of \$0.03378 per kWh.
22		
23	Q.	How do the proposed Non-G1 fixed DSC rates compare to the current rate?

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1	A.	The proposed Residential Class fixed Non-G1 DSC of \$0.10117 per kWh is a
2		decrease of \$0.07401 per kWh from the current DSC of \$0.17518 per kWh. The
3		proposed G2 and OL Class fixed Non-G1 DSC of \$0.09370 per kWh is a decrease
4		of \$0.06011 per kWh from the current DSC of \$0.15381 per kWh. These
5		decreases reflect lower contract costs for the period June 1, 2022 through
6		November 30, 2022 compared to the contract costs for the current period
7		December 1, 2021 through May 31, 2022.
8		
9	Q.	Please describe the calculation of the Non-G1 class DSC.
10	A.	The rate calculations for the Non-G1 class Power Supply Charges, fixed and
11		variable, are provided on Schedule LSM-2, Page 1. The rate calculations for the
12		Non-G1 class RPS Charges, fixed and variable, are provided on Schedule LSM-3,
13		Page 1. Both charges are calculated in a similar manner.
14		
15		Variable pricing is calculated by dividing the total costs for the month, including a
16		partial reconciliation of costs and revenues through February 28, 2022, by the
17		estimated monthly kWh purchases for the Residential Class and the G2 and OL
18		Class. An estimated loss factor of 6.4% is then added to arrive at the proposed
19		retail variable charges. Fixed pricing is calculated in a similar manner, except
20		that the calculation is based on each class's total for the entire six month period.
21		
22	Q.	Have you made any adjustments to the reconciliation balances included in
23		the Power Supply and RPS charges?

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1	A.	In order to determine the reconciliation amount included in the Non-G1 class
2		power supply charge, the reconciliation balance as of February 28, 2022 was
3		adjusted to recognize that estimated revenue in March, April, and May 2022
4		should excede costs for this same period by an estimated \$8,010,892. This
5		adjustment recognizes that estimated costs for March, April and May 2022 are
6		below the average cost for the entire period, December 2021-May 2022, while
7		revenue will be primarily based on the fixed Power Supply Charge, of which most
8		Non-G1 customers pay, and is determined using an average of costs for the entire
9		December 2021-May 2022 period. This adjustment brings the expected
10		reconciliation balance from \$6,955,009 to (\$1,055,884).
11		
12		In order to determine the reconciliation amounts included in the Non-G1 class
13		RPS, the reconciliation balance as of February 28, 2022 was adjusted to recognize
14		that the current RPS charges, in effect through May 31, 2022, include a credit for
15		the previous period's overcollection.
16		
17		Since UES reconciles its costs on an annual basis, only a portion of the total
18		reconciliation balances are reflected in the proposed Power Supply and RPS rates.
19		UES apportioned the Power Supply balance and the RPS balance based on kWh
20		over the twelve month period June 2022 through May 2023. The Power Supply
21		reconciliation balance is further divided between the Residential Class and the
22		G2/OL Class, based on kWh. This calculation is provided on Page 1 of Schedule
23		LSM-2 for Power Supply and Page 1 of Schedule LSM-3 for RPS.

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1	
2	

# Q. Have you provided details on the reconciliation?

A. Support for the February 28, 2022 Non-G1 class power supply reconciliation
balance is provided on Schedule LSM-2, Page 2. Support for the February 28,
2022 Non-G1 class RPS reconciliation balance is provided on Schedule LSM-3,
Page 2. As described above, those figures have been adjusted in order to arrive at
the figures for collecton beginning June 1, 2022. Details for costs for the period
March 2021 through February 2022 are provided on Page 3 of Schedule LSM-2
and LSM-3. Page 4 of Schedule LSM-2 and LSM-3 provides revenue details.

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A.

# Q. How does UES account for credits to net metering customers?

The Company includes in the Total Non-G1 Class DS Supplier Charges, in the Non-G1 Class Power Supply Charge, the amounts credited to, or paid to, small customer generator net metering customers with an excess of 600 kWh banked at the end of the March billing cycle who opt to be credited or paid in accordance with the Puc 900 rules. In addition, UES includes any monthly amounts credited to, or paid to, large customer generators or group net metering customers including any required annual credit reconciliation in accordance with Puc 900. For the period March 2021 through February 2022, these amounts totaled \$78,066.12.

21

22

23

Q. Have you provided support for the total forecast costs shown on Page 1,

lines 2 and 10 of Schedule LSM-2?

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1	A.	The details of forecasted costs for the period June 1, 2022 through November
2		30, 2022 are provided on Schedule LSM-2, Page 5. Line items for the various
3		costs included in default service are shown and include: Non-G1 Class
4		(Residential) DS Supplier Charges, Non-G1 Class (G2 and OL) DS Supplier
5		Charges, GIS Support Payments, Supply Related Working Capital, Provision
6		for Uncollected Accounts, Internal Company Administrative Costs, Legal
7		Charges, Consulting Outside Service Charges, and the default service portion
8		of the annual PUC Assessment allocated to the Non-G1 Class.
9		
10	Q.	Have you provided support for the total forecast costs shown on Page 1,
11		line 2 of Schedule LSM-3?
12	A.	The details of forecasted costs for the period June 1, 2022 through November
13		30, 2022 are provided on Schedule LSM-3, Page 5. Costs include RECs and
14		the associated working capital.
15		
16	Q.	How is working capital calculated?
17	A.	Working capital included in the Power Supply Charge equals the sum of
18		working capital for Non-G1 Class (Residential) DS Supplier Charges, plus
19		Non-G1 Class (G2 and OL) DS Supplier Charges <sup>1</sup> , plus GIS Support
20		Payments, as shown on Schedule LSM-2, Pages 3 and 5. It is calculated by
		<sup>1</sup> In actuals, the supplier charges are provided in total in the column "Total Non-G1 Class
	Г	S Supplier Charges".

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1		taking the product of Non-G1 Class (Residential) DS Supplier Charges plus
2		Non-G1 Class (G2 and OL) DS Supplier Charges plus GIS Support Payments
3		and the number of days lag divided by 365 days (i.e. the working capital
4		requirement) and multiplying it by the prime rate.
5		
6		The calculation of working capital for RECs is included in the RPS Charge
7		and is shown on Schedule LSM-3, Pages 3 and 5. It is calculated by taking
8		the product of RECs and the number of days lead divided by 365 days (i.e. the
9		working capital requirement) and multiplying it by the prime rate.
10		
11		The calculation of working capital included in the Power Supply Charge and
12		the RPS Charge for the period beginning June 1, 2022 both rely on the results
13		of the 2021 Default Service and Renewable Energy Credits Lead Lag Study,
14		presented by Mr. Nawazelski. The Non-G1 class Power Supply Charge
15		working capital calculation uses 22.52 days and the Non-G1 class RPS Charge
16		working capital calculation uses (250.05) days.
17		
18	Q.	What is the proposed G1 Class DSC?
19	A.	The proposed G1 class DSC are comprised of two components, as shown on
20		Schedule LSM-1, Page 3: A Power Supply Charge and a Renewable Portfolio
21		Standard ("RPS") Charge. The wholesale supplier charge included in the Power
22		Supply Charge will be determined each month based on the sum of fixed monthly

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1		adders and variable energy prices, and therefore, the total DSC for the G1 class is
2		not known at this time.
3		
4	Q.	What is the proposed Power Supply Charge, exclusive of supplier charges,
5		and RPS Charge?
6	A.	Schedule LSM-1, Page 3, shows the proposed G1 Power Supply Charges,
7		excluding the supplier charge component, of \$0.00888 per kWh in June 1, 2022
8		through November 30, 2022. The wholesale supply charge determined each
9		month will be added to this amount to yield the monthly G1 class Power Supply
10		Charge.
11		
12		Also shown on Schedule LSM-1, Page 3, is the proposed G1 RPS Charge of
13		\$0.00467 per kWh in June 1, 2022 through November 30, 2022.
14		
15	Q.	Have you prepared a comparison of the proposed G1 DSC to the current
16		rate?
17	A.	No. As the total G1 class DSC is not yet known, a comparison to current rates
18		was not performed.
19		
20	Q.	Please describe the calculation of the G1 class DSC.
21	A.	The rate calculations for the Power Supply Charges, excluding wholesale supplier
22		charges, are provided on Schedule LSM-4, Page 1. The rate calculations for the

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1		RPS Charges are provided on Schedule LSM-5, Page 1. Both charges are
2		calculated in the same manner.
3		
4		Each charge is calculated by dividing the costs for each month, including a partial
5		reconciliation of costs and revenues through February 28, 2022, by the estimated
6		G1 kWh purchases for the corresponding month. An estimated loss factor of
7		4.591% is then added to arrive at the proposed retail charges.
8		
9		Similar to the Non-G1 power supply and RPS balances, the G1 class power
10		supply and RPS reconciliation balances as of February 28, 2022 were adjusted in
11		order to determine the reconcilation amount for this filing. Adjustments were
12		made to reflect that the current DSC include reconciliation of the February 28,
13		2021 power supply and RPS balances, and to incorporate the difference between
14		the estimated supplier cost and revenue in March 2022. These adjustments are
15		shown on Page 1 of Schedule LSM-4 and LSM-5.
16		
17	Q.	Have you provided support for the total forecast costs shown on Page 1,
18		line 2 of Schedule LSM-4?
19	A.	The details of forecasted costs included in the Power Supply Charge for the
20		period June 1, 2022 through November 30, 2022 are provided on Schedule
21		LSM-4, Page 5. Line items for the various costs included in default service
22		are shown and include: Total G1 Class DS Supplier Charges, GIS Support
23		Payments, Supply Related Working Capital, Provision for Uncollected

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1		Accounts, Internal Company Administrative Costs, Legal Charges, Consulting
2		Outside Service Charges, and the default service portion of the annual PUC
3		Assessment allocated to the G1 Class. At the end of each month, UES will
4		determine the supplier charge to be added to the monthly Power Supply
5		Charge.
6		
7	Q.	Have you provided support for the total forecast costs shown on Page 1,
8		line 2 of Schedule LSM-5?
9	A.	The details of forecasted costs included in the RPS Charge for the period June
10		1, 2022 through November 30, 2022 are provided on Schedule LSM-5, Page
11		5. Costs include Renewable Energy Credits ("RECs") and the associated
12		Working Capital.
13		
14	Q.	How is working capital calculated?
15	A.	Working capital included in the Power Supply Charge equals the sum of
16		working capital for Total G1 Class DS Supplier Charges plus GIS Support
17		Payments and is shown on Schedule LSM-4, Pages 3 and 5. It is calculated
18		by taking the product of Total G1 Class DS Supplier Charges plus GIS
19		Support Payments and the number of days lag divided by 365 days (i.e. the
20		working capital requirement) and multiplying it by the prime rate. As the
21		Total G1 Class DS Supplier Charges for the upcoming rate period are not yet
22		known, UES has estimated power supply costs for the purpose of estimating
23		working capital. The estimate of power supply costs is based on the

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1		forecasted G1 class kWh purchases and an estimated price per kWh. The
2		estimated price per kWh was determined by comparing a historical
3		relationship between G1 and Non-G1 class supplier pricing and then applying
4		that relationship to the current average Non-G1 supplier price per kWh.
5		Actual working capital will be determined using the actual supplier charges in
6		each month.
7		
8		The calculation of working capital for RECs is included in the RPS Charge
9		and is shown on Schedule LSM-5, Pages 3 and 5. It is calculated by taking
10		the product of RECs and the number of days lead divided by 365 days (i.e. the
11		working capital requirement) and multiplying it by the prime rate.
12		
13		The calculation of working capital included in the Power Supply Charge and
14		the RPS Charge, effective June 1, 2022, both rely on the results of the 2021
15		Default Service and Renewable Energy Credits Lead Lag Study. The G1
16		class Power Supply Charge working capital calculation uses 4.20 days and the
17		G1 class RPS Charge working capital calculation uses (260.57) days.
18		
19		
20	IV.	BILL IMPACTS
21	Q.	Have you included any bill impacts associated with the proposed DSC rate
22		changes?

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1	A.	Typical bill impacts for Non-G1 customers taking default service have been
2		provided on Schedule LSM-6. Total bill impacts to G1 customers are unknown at
3		this time and have therefore been excluded from Schedule LSM-6.
4		
5		Pages 1 and 2 provide a table comparing the existing rates to the proposed rates
6		for the residential and General Service rate classes. These pages also show the
7		impact on a typical bill for each class in order to identify the effect of each rate
8		component on a typical bill.
9		
10		Page 3 shows bill impacts versus current rates to the residential class based on the
11		mean and median use. Page 3 is provided in a format similar to Pages 1 and 2.
12		
13		Page 4 provides the overall average class bill impacts as a result of changes to the
14		DSC versus current rates. As shown, for customers on Default Service, the
15		residential class will decrease by approximately 26.6%, general service will
16		decrease by approximately 24.2%, and outdoor lighting will decrease by
17		approximately 14.5%.
18		
19		Pages 5 through 9 of Schedule LSM-6 provide typical bill impacts versus current
20		rates for all classes, excluding G1, for a range of usage levels.
21		
22		Pages 10 and 11 provide a table comparing rates in effect in June 2021 to the
23		proposed rates for the residential and General Service rate classes. These pages

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1 also show the impact on a typical bill for each class in order to identify the effect 2 of each rate component on a typical bill. Residential customers taking fixed 3 default service will see increases of approximately 13.5% compared to last 4 summer. G2 and outdoor lighting customers taking fixed default service will see 5 increases of roughly 10-19% compared to last summer. These increases are due 6 to the change in the Default Service Charge. 7 8 V. **CONCLUSION** 9 Does that conclude your testimony? Q. 10 A. Yes, it does.

Schedule LSM-1
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Thirty-Second<del>First</del> Revised Page 74
Superseding Thirty-Firs<del>(Thirtieth</del> Revised Page 74

NHPUC No. 3 - Electricity Delivery Unitil Energy Systems, Inc.

#### CALCULATION OF THE DEFAULT SERVICE CHARGE

#### Non-G1 Class Default Service:

		<u>Jun-22</u>	<u>Jul-22</u>	Aug-22	Sep-22	Oct-22	Nov-22	<u>Total</u>
	Power Supply Charge							
1	Residential Class Reconciliation	(\$52,449)	(\$67,924)	(\$77,770)	(\$60,368)	(\$49,458)	(\$54,811)	(\$362,781)
2	Total Costs	\$2,707,394	\$3,872,078	\$4,540,764	\$3,280,713	\$2,827,234	\$4,226,695	\$21,454,879
3	Reconciliation plus Total Costs (L.1 + L.2)	\$2,654,944	\$3,804,154	\$4,462,994	\$3,220,345	\$2,777,776	\$4,171,884	\$21,092,098
4	kWh Purchases	33,522,825	43,413,342	49,706,529	38,583,854	31,610,590	35,032,503	231,869,643
5	Total, Before Losses (L.3 / L.4)	\$0.07920	\$0.08763	\$0.08979	\$0.08346	\$0.08787	\$0.11909	\$0.09097
6	Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
	Total Retail Rate - Residential Variable Power Supply Charge (L.5 * (1+L.6)) Total Retail Rate - Residential Fixed Power Supply Charge (L.5 * (1+L.6))	\$0.08427	\$0.09323	\$0.09553	\$0.08881	\$0.09350	\$0.12671	\$0.09679
9	G2 and OL Class Reconciliation	(\$25,800)	(\$29,758)	(\$32,372)	(\$27,994)	(\$24,823)	(\$25,153)	(\$165,900)
10	Total Costs	\$1,216,247	\$1,612,248	\$1,794,453	\$1,369,359	\$1,268,844	\$1,807,126	\$9,068,277
11	Reconciliation plus Total Costs (L.9 + L.10)	\$1,190,447	\$1,582,490	\$1,762,081	\$1,341,365	\$1,244,021	\$1,781,973	\$8,902,377
12	kWh Purchases	16,490,877	19,021,120	20,692,145	17,893,536	15,866,604	16,077,538	106,041,819
13	Total, Before Losses (L.11 / L.12)	\$0.07219	\$0.08320	\$0.08516	\$0.07496	\$0.07840	\$0.11084	\$0.08395
14	Losses	<u>6.40%</u>	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
	Total Retail Rate - G2 and OL Variable Power Supply Charge (L.13 * (1+L.14))   Total Retail Rate - G2 and OL Fixed Power Supply Charge (L.13 *	\$0.07681	\$0.08852	\$0.09061	\$0.07976	\$0.08342	\$0.11793	
16	(1+L.14))							\$0.08932

Renewable Portfolio Standard (RPS) Charge							
17 Reconciliation	(\$150,253)	(\$187,567)	(\$211,494)	(\$169,671)	(\$142,632)	(\$153,546)	(\$1,015,164)
18 Total Costs	<u>\$356,315</u>	<u>\$444,798</u>	<u>\$501,533</u>	\$402,361	\$338,245	\$364,122	\$2,407,374
19 Reconciliation plus Total Costs (L.17 + L.18)	\$206,063	\$257,230	\$290,039	\$232,690	\$195,613	\$210,576	\$1,392,210
20 kWh Purchases	50,013,703	62,434,462	70,398,674	56,477,390	47,477,194	51,110,040	337,911,462
21 Total, Before Losses (L.19 / L.20)	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412
22 Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
23 Total Retail Rate - Variable RPS Charge (L.21 * (1+L.22)) 24 Total Retail Rate - Fixed RPS Charge (L.21 * (1+L.22))	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438

	TOTAL DEFAULT SERVICE CHARGE							
25	Total Retail Rate - Residential Variable Default Service Charge (L.7 + L.23)	\$0.08865	\$0.09761	\$0.09991	\$0.09319	\$0.09788	\$0.13109	
26	Total Retail Rate - Residential Fixed Default Service Charge (L.8+L.24)							\$0.10117
27	Total Retail Rate - G2 and OL Variable Default Service Charge (L.15 + L.23) Total Retail Rate - G2 and OL Fixed Default Service	\$0.08119	\$0.09290	\$0.09499	\$0.08414	\$0.08780	\$0.12231	
28	Charge (L.16+L.24)							\$0.09370

Authorized by NHPUC Order No. 26,532 in Case No. DE 22-1-041, dated October 8, 2021

Issued: March 25, 2022<del>October 1, 2021</del> Effective: June 1, 2022<del>December 1, 2021</del>

Issued By: Robert B. Hevert Sr. Vice President

#### CALCULATION OF THE DEFAULT SERVICE CHARGE

#### Non-G1 Class Default Service:

	Non-G1 Class Default Service:							
	Danier Comple Change	Dec-21	Jan-22	Feb-22	<u>Mar-22</u>	Apr-22	May-22	<u>Total</u>
	Power Supply Charge							
	Residential Class							
1	Reconciliation	(\$76,446)	(\$80,659)	(\$76,084)	(\$67,445)	(\$62,717)	(\$55,091)	(\$418,442)
2	Total Costs	\$8,189,313	\$10,275,095	\$9,351,868	\$5,351,503	\$ <del>2,401,366</del>	<del>\$2,399,124</del>	\$37,968,26 <del>9</del>
3	Reconciliation plus Total Costs (L.1 + L.2)	\$8,112,867	\$10,194,436	\$9,275,784	\$5,284,058	\$2,338,649	\$2,344,033	\$37,549,827
4	kWh Purchases	43,598,144	46,001,076	43,391,627	<del>38,464,718</del>	<del>35,768,076</del>	<del>31,419,414</del>	<del>238,643,055</del>
5	Total, Before Losses (L.3 / L.4)	\$0.18608	<del>\$0.22161</del>	<del>\$0.21377</del>	<del>\$0.13737</del>	<del>\$0.06538</del>	<del>\$0.07460</del>	<del>\$0.15735</del>
6	Losses	<del>6.40%</del>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<del>6.40%</del>	<u>6.40%</u>	<del>6.40%</del>
	Total Retail Rate - Residential Variable Power Supply Charge (L.5 * (1+L.6)) Total Retail Rate - Residential Fixed Power Supply Charge (L.5 * (1+L.6))	\$ <del>0.19799</del>	\$0.23580	\$ <del>0.22745</del>	\$ <del>0.14617</del>	\$0.06957	<del>\$0.07938</del>	<del>\$0.16742</del>
9	G2 and OL Class Reconciliation	(\$27,851)	<del>(\$27,877)</del>	(\$27,891)	(\$27,733)	(\$26,938)	<del>(\$25,326)</del>	<del>(\$163,617)</del>
10	Total Costs	\$2,788,700	\$3,282,062	\$3,200,722	\$1,947,474	\$891,553	\$862,634	\$12,973,145
11	Reconciliation plus Total Costs (L.9 + L.10)	\$2,760,849	\$3,254,184	\$3,172,831	\$1,919,740	\$864,615	\$837,308	\$12,809,528
12	kWh Purchases	15,884,934	15,900,198	<u>15,907,972</u>	15,818,000	15,364,419	14,445,122	93,320,647
13	Total, Before Losses (L.11/L.12)	\$0.17380	\$0.20466	<del>\$0.19945</del>	<del>\$0.12136</del>	<del>\$0.05627</del>	<del>\$0.05796</del>	<del>\$0.13726</del>
14	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	6.40%	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
	$\label{eq:controller} Total\ Retail\ Rate-G2\ and\ OL\ Variable\ Power\ Supply\ Charge\ (L.13\ *\ (1+L.14))$ $Total\ Retail\ Rate-G2\ and\ OL\ Fixed\ Power\ Supply\ Charge\ (L.13\ *\ )$	<del>\$0.18493</del>	\$ <del>0.21776</del>	<del>\$0.21221</del>	<del>\$0.12913</del>	<del>\$0.05988</del>	\$ <del>0.06167</del>	\$0.14605
16	(1+L.14))							\$0.14605

Renewable Portfolio Standard (RPS) Charge							
17 Reconciliation	(\$18,574)	(\$19,329)	(\$18,517)	(\$16,950)	(\$15,967)	(\$14,322)	(\$103,660)
18 Total Costs	<u>\$436,498</u>	<u>\$474,349</u>	<u>\$454,416</u>	<u>\$415,978</u>	<u>\$391,840</u>	<u>\$351,474</u>	<u>\$2,524,554</u>
19 Reconciliation plus Total Costs (L.17 ± L.18)	<del>\$417,923</del>	\$455 <del>,020</del>	\$435,899	\$399,028	\$375,873	<del>\$337,152</del>	<del>\$2,420,895</del>
20 kWh Purchases	59,483,078	61,901,274	59,299,599	54,282,719	<u>51,132,495</u>	45,864,536	331,963,702
21 Total, Before Losses (L.19 / L.20)	\$0.00703	<del>\$0.00735</del>	<del>\$0.00735</del>	\$0.00735	\$0.00735	\$0.00735	\$0.00729
22 Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
23 Total Retail Rate - Variable RPS Charge (L.21 * (1+L.22)) 24 Total Retail Rate - Fixed RPS Charge (L.21 * (1+L.22))	<del>\$0.00748</del>	\$0.00782	\$0.00782	\$0.00782	\$0.00782	<del>\$0.00782</del>	\$ <del>0.00776</del>

	TOTAL DEFAULT SERVICE CHARGE							
25	Total Retail Rate - Residential Variable Default Service- Charge (L.7 + L.23)	<del>\$0.20547</del>	<del>\$0.24362</del>	<del>\$0.23527</del>	<del>\$0.15399</del>	<del>\$0.07739</del>	<del>\$0.08720</del>	
26	Total Retail Rate—Residential Fixed Default Service- Charge (L.8+L.24)							<del>\$0.17518</del>
	Total Retail Rate - G2 and OL Variable Default Service							
27	Charge (L.15 + L.23)	\$0.19241	<del>\$0.22558</del>	\$0.22003	<del>\$0.13695</del>	\$0.06770	<del>\$0.06949</del>	
	Total Retail Rate - G2 and OL Fixed Default Service							
28	Charge (L.16+L.24)							<del>\$0.15381</del>

Schedule LSM-1

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NHPUC No. 3 - Electricity Delivery Unitil Energy Systems, Inc.

#### CALCULATION OF THE DEFAULT SERVICE CHARGE

	G1 Class Default Service:	<u>Jun-22</u>	<u>Jul-22</u>	<u>Aug-22</u>	Sep-22	Oct-22	<u>Nov-22</u>	<u>Total</u>
	Power Supply Charge							
1	Reconciliation							\$235,673
2	Total Costs excl. wholesale supplier charge							<u>\$29,567</u>
3	Reconciliation plus Total Costs excl. wholesale supplier charge (L.1 + L.2)							\$265,240
4	kWh Purchases							31,230,935
5	Total, Before Losses (L.3 / L.4)							\$0.00849
6	Losses							4.591%
7	Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6))	\$0.00888	\$0.00888	\$0.00888	\$0.00888	\$0.00888	\$0.00888	\$0.00888
	Wholesale Supplier Charge Losses Retail Rate - Wholesale Supplier Charge (L.8a *	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	
8	(1+L.8b))	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
9	Total Retail Rate - Power Supply Charge (L.7 + L. 8)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
	Renewable Portfolio Standard (RPS) Charge							
10	Reconciliation	(\$13,931)	(\$15,161)	(\$16,050)	(\$14,685)	(\$13,623)	(\$13,194)	(\$86,643)
11	Total Costs	\$36,371	\$39,583	<u>\$41,902</u>	\$38,339	<u>\$35,566</u>	<u>\$34,446</u>	\$226,207
12	Reconciliation plus Total Costs (L.10+ L.11)	\$22,440	\$24,422	\$25,853	\$23,654	\$21,943	\$21,252	\$139,564
13	kWh Purchases	5,021,504	5,464,982	5,785,176	5,293,166	4,910,387	4,755,719	31,230,935
14	Total, Before Losses (L.12 / L.13)	\$0.00447	\$0.00447	\$0.00447	\$0.00447	\$0.00447	\$0.00447	
15	Losses	4.591%	4.591%	4.591%	4.591%	4.591%	4.591%	
16	Total Retail Rate - RPS Charge (L.14 * (1+L.15))	\$0.00467	\$0.00467	\$0.00467	\$0.00467	\$0.00467	\$0.00467	
	TOTAL DEFAULT SERVICE CHARGE							
17	Total Retail Rate - Default Service Charge (L.9 + L.16)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	

Authorized by NHPUC Order No. 26,532 in Case No. DE 22-21-041, dated October 8, 2021

Issued By: Robert B. Hevert Issued: March 25, 2022 October 1, 2021 Effective: June 1, 2022 December 1, 2021 Sr. Vice President

#### CALCULATION OF THE DEFAULT SERVICE CHARGE

	G1 Class Default Service:	<del>Dec-21</del>	<del>Jan-22</del>	<del>Feb-22</del>	<u>Mar-22</u>	Apr 22	May-22	<u>Total</u>
	Power Supply Charge							
1	Reconciliation							<del>\$47,765</del>
2	Total Costs excl. wholesale supplier charge							<u>\$28,846</u>
3	Reconciliation plus Total Costs excl. wholesale supplier charge (L.1 + L.2)							<del>\$76,611</del>
4	kWh Purchases							<u>25,275,697</u>
5	Total, Before Losses (L.3 / L.4)							<del>\$0.00303</del>
6	Losses							<u>4.591%</u>
7	Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6))	<del>\$0.00317</del>						
8a 8b	Wholesale Supplier Charge Losses Detail Pate, Wholesale Supplier Charge (L. Sa. *	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	
8	Retail Rate Wholesale Supplier Charge (L.8a * (1+L.8b))	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
9	Total Retail Rate Power Supply Charge (L.7 + L. 8)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
	Renewable Portfolio Standard (RPS) Charge							
10	Reconciliation	(\$2,296)	<del>(\$2,172)</del>	(\$2,190)	<del>(\$2,202)</del>	(\$2,223)	<del>(\$2,147)</del>	(\$13,231)
11	Total Costs	<del>\$32,756</del>	<u>\$32,355</u>	<u>\$32,616</u>	<u>\$32,795</u>	<del>\$33,117</del>	<u>\$31,986</u>	<u>\$195,625</u>
12	Reconciliation plus Total Costs (L.10+ L.11)	<del>\$30,460</del>	\$30,183	<del>\$30,426</del>	\$30,593	\$30,894	<del>\$29,839</del>	<del>\$182,394</del>
13	kWh Purchases	4,387,100	<u>4,149,721</u>	<u>4,183,084</u>	4,206,047	<u>4,247,401</u>	4,102,344	25,275,697
14	Total, Before Losses (L.12 / L.13)	\$0.00694	\$0.00727	<del>\$0.00727</del>	<del>\$0.00727</del>	\$0.00727	<del>\$0.00727</del>	
<del>15</del>	Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
<del>16</del>	Total Retail Rate RPS Charge (L.14 * (1+L.15))	<del>\$0.00726</del>	<del>\$0.00761</del>	<del>\$0.00761</del>	<del>\$0.00761</del>	<del>\$0.00761</del>	<del>\$0.00761</del>	
	TOTAL DEFAULT SERVICE CHARGE							
<del>17</del>	Total Retail Rate Default Service Charge (L.9 + L.16)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	

a February 28, 2022 balance - Schedule LSM-2, Page 2

	Partition to Laboratory	Jun-22 Estimated	Jul-22 <u>Estimated</u>	Aug-22 Estimated	Sep-22 Estimated	Oct-22 Estimated	Nov-22 Estimated	<u>Total</u>
1	Residential Class Reconciliation (1)	(\$52,449)	(\$67,924)	(\$77,770)	(\$60,368)	(\$49,458)	(\$54,811)	(\$362,781)
2	Total Costs (Page 5)	\$2,707,394	\$3,872,078	\$4,540,764	\$3,280,713	\$2,827,234	\$4,226,695	\$21,454,879
3	Reconciliation plus Total Costs (L.1 + L.2)	\$2,654,944	\$3,804,154	\$4,462,994	\$3,220,345	\$2,777,776	\$4,171,884	\$21,092,098
4	kWh Purchases	33,522,825	43,413,342	49,706,529	38,583,854	31,610,590	35,032,503	231,869,643
5	Total, Before Losses (L.3 / L.4)	\$0.07920	\$0.08763	\$0.08979	\$0.08346	\$0.08787	\$0.11909	\$0.09097
6	Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
7 8	11 7 - 3 ( - ( - //	\$0.08427	\$0.09323	\$0.09553	\$0.08881	\$0.09350	\$0.12671	\$0.09679
9	G2 and OL Class Reconciliation (1)	(\$25,800)	(\$29,758)	(\$32,372)	(\$27,994)	(\$24,823)	(\$25,153)	(\$165,900)
10	Total Costs (Page 5)	\$1,216,247	\$1,612,248	\$1,794,453	\$1,369,359	<u>\$1,268,844</u>	<u>\$1,807,126</u>	\$9,068,277
11	Reconciliation plus Total Costs (L.9 + L.10)	\$1,190,447	\$1,582,490	\$1,762,081	\$1,341,365	\$1,244,021	\$1,781,973	\$8,902,377
12	kWh Purchases	16,490,877	<u>19,021,120</u>	20,692,145	<u>17,893,536</u>	<u>15,866,604</u>	16,077,538	106,041,819
13	Total, Before Losses (L.11 / L.12)	\$0.07219	\$0.08320	\$0.08516	\$0.07496	\$0.07840	\$0.11084	\$0.08395
14	Losses	6.40%	<u>6.40%</u>	6.40%	6.40%	6.40%	6.40%	6.40%
	Total Retail Rate - G2 and OL Variable Power Supply Charge (L.13 * (1+L.14)) Total Retail Rate - G2 and OL Fixed Power Supply Charge (L.13 * (1+L.14))	\$0.07681	\$0.08852	\$0.09061	\$0.07976	\$0.08342	\$0.11793	\$0.08932

(1) Balance as of February 28, 2022 modified, as detailed below, to include the reconciliation of estimated costs and revenues for March, April and May 2022. Figure is then allocated between rate periods (June-November 2022 and December 2022-May 2023) and rate classes (Residential and G2/OL), and then to each month, June through November 2022, on equal per kWh basis.

\$6,955,009

<ul> <li>b less: Estimated remaining prior period reconciliation - Mar, Apr, May 2022:</li> <li>c Estimated costs - Mar, Apr, May 2022</li> <li>d Estimated revenue-Mar, Apr, May 2022</li> <li>e line c - line d</li> </ul>			\$13,853,654 <u>\$21,864,546</u> (\$8,010,892)
f Reconciliation for June 1, 2022-May 31, 2023 (line a + line e)			(\$1,055,884)
g Rate period: June-November 2022 h Rate period: December 2022-May 2023 i Total	Non-G1 total <u>kWh purchases</u> 337,911,462 <u>337,018,104</u> 674,929,567	% per period 50.07% 49.93%	Reconciliation <u>per period</u> (\$528,681) (\$527,203) (\$1,055,884)
j Residential class k G2 and OL class / Total	Jun-Nov 2022 <u>kWh purchases</u> 231,869,643 106,041,819 337,911,462	% by class 68.62% 31.38%	Jun-Nov 2022 Reconciliation by class (\$362,781) (\$165,900) (\$528,681)

	(a)	(b)	(c)	(d) Ending Balance	(e)	(f)	(g) Number of	(h)	(i)
		Total Costs (Page	Total Revenue	Before Interest	Average Monthly	Interest	Days /	Computed	Ending Balance with
	Beginning Balance	3)	(Page 4)	(a + b - c)	Balance ((a+d) / 2)	Rate	Month	Interest	Interest (d + h)
Mar-21	\$454,159	\$3,498,214	\$4,216,476	(\$264,103)	\$95,028	3.25%	31	\$262	(\$263,841)
Apr-21	(\$263,841)	\$3,375,543	\$3,460,036	(\$348,334)	(\$306,088)	3.25%	30	(\$818)	(\$349,152)
May-21	(\$349,152)	\$2,686,936	\$3,537,244	(\$1,199,461)	(\$774,306)	3.25%	31	(\$4,685)(1)	(\$1,204,146)
Jun-21	(\$1,204,146)	\$3,690,209	\$3,799,506	(\$1,313,443)	(\$1,258,794)	3.25%	30	(\$3,363)	(\$1,316,805)
Jul-21	(\$1,316,805)	\$4,559,650	\$3,559,772	(\$316,927)	(\$816,866)	3.25%	31	(\$2,255)	(\$319,182)
Aug-21	(\$319,182)	\$3,688,871	\$4,413,327	(\$1,043,638)	(\$681,410)	3.25%	31	(\$1,881)	(\$1,045,519)
Sep-21	(\$1,045,519)	\$1,689,505	\$2,706,364	(\$2,062,378)	(\$1,553,948)	3.25%	30	(\$4,151)	(\$2,066,529)
Oct-21	(\$2,066,529)	\$2,711,724	\$2,877,364	(\$2,232,168)	(\$2,149,349)	3.25%	31	(\$5,933)	(\$2,238,101)
Nov-21	(\$2,238,101)	\$3,894,025	\$2,943,033	(\$1,287,109)	(\$1,762,605)	3.25%	30	(\$4,708)	(\$1,291,818)
Dec-21	(\$1,291,818)	\$11,222,825	\$9,377,346	\$553,662	(\$369,078)	3.25%	31	(\$1,026)(2)	\$552,636
Jan-22	\$552,636	\$14,680,325	\$10,964,100	\$4,268,861	\$2,410,748	3.25%	31	\$6,654	\$4,275,515
Feb-22	\$4,275,515	<u>\$11,766,349</u>	\$9,100,837	\$6,941,026	\$5,608,271	3.25%	28	<b>\$13,982</b>	\$6,955,009
Total		\$67,464,175	\$60,955,406					(\$7,919)	

<sup>(1)</sup> Includes (\$2,547.30) to adjust interest related to January 2021 invoice reclassed from Non-G1 to G1 power supply.(2) Includes (\$7.08) associated with November 2021 reclass of (\$2,597.03) moved to the External Delivery Charge.

Unitil Energy Systems, Inc. Itemized Costs for Non-G1 Class Default Service Charge Schedule LSM-2 Page 3 of 5

				Calculation of W r Charges and G	• ,	yments						<i>a</i> n
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)
	Total Non-G1 Class DS Supplier Charges	GIS Support Payments	Number of Days of Lag / 365 (1)	Working Capital Requirement ((a+b)*c)	Prime Rate	Supply Related Working Capital (d * e)	Provision for Uncollected Accounts	Internal Company Administrative Costs	Legal Charges	Consulting Outside Service Charges	Default Service Portion of the annual PUC Assessment	Total Costs (sum a + b + f + g + h + i + j + k)
Mar-21	\$3,451,183	\$497	5.98%	\$206,439	3.25%	\$6,709	\$35,873	\$3,176	\$0	\$0	\$775	\$3,498,214
Apr-21	\$3,342,628	\$495	5.98%	\$199,946	3.25%	\$6,498	\$21,476	\$3,176	\$504	\$0	\$766	\$3,375,543
May-21	\$2,648,782	\$491	5.98%	\$158,448	3.25%	\$5,150	\$28,574	\$3,176	\$0	\$0	\$762	\$2,686,936
Jun-21	\$3,665,440	\$504	6.25%	\$228,996	3.25%	\$7,442	\$12,881	\$3,176	\$0	\$0	\$765	\$3,690,209
Jul-21	\$4,527,564	\$1,271	6.25%	\$282,897	3.25%	\$9,194	\$17,678	\$3,176	\$0	\$0	\$767	\$4,559,650
Aug-21	\$3,607,090	\$527	6.25%	\$225,353	3.25%	\$7,324	\$69,988	\$3,176	\$0	\$0	\$766	\$3,688,871
Sep-21	\$1,621,784	\$488	6.25%	\$101,336	3.25%	\$3,293	\$59,734	\$3,176	\$264	\$0	\$765	\$1,689,505
Oct-21	\$2,674,278	\$510	6.25%	\$167,083	3.25%	\$5,430	\$24,983	\$3,176	\$2,597	\$0	\$751	\$2,711,724
Nov-21	\$3,850,104	\$475	6.25%	\$240,529	3.25%	\$7,817	\$34,292	\$3,176	(\$2,597)	\$0	\$758	\$3,894,025
Dec-21	\$11,138,769	\$471	6.25%	\$695,821	3.25%	\$22,614	\$56,636	\$3,007	\$560	\$0	\$768	\$11,222,825
Jan-22	\$14,612,439	\$517	6.25%	\$912,809	3.25%	\$29,666	\$33,917	\$3,007	\$0	\$0	\$779	\$14,680,325
Feb-22	\$11,709,205	<u>\$530</u>	6.25%	\$731,457	3.25%	\$23,772	\$29,056	\$3,007	<u>\$0</u>	<u>\$0</u>	<u>\$778</u>	\$11,766,349
Total	\$66,849,267	\$6,776				\$134,911	\$425,088	\$37,605	\$1,327	\$0	\$9,200	\$67,464,175

<sup>(1)</sup> For the months March-May 2021, number of days lag equals 21.83. Calculated using revenue lag of 58.69 days less cost lead of 36.86 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 2 of 23, DE 20-039 filed April 3, 2020.

For the months June 2021-Febraury 2022, number of days lag equals 22.80. Calculated using revenue lag of 59.97 days less cost lead of 37.17 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 21-041 filed April 2, 2021.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)
	Total Residential Class Billed		Residential	Effective Fixed	Residential Class Unbilled Power	Total G2/OL Class Billed		G2/OL Class	Effective Fixed	G2/OL Class Unbilled Power		Total Billed Non- G1 Class Power	
	Default Service	Unbilled Factor	Class Unbilled	Power Supply		Default Service	Unbilled Factor	Unbilled kWh	Power Supply	Supply Charge	Reversal of prior	Supply Charge	Total Revenue
	kWh (1)	(2)	kWh (a * b)	Charge	Revenue (c * d)	kWh (1)	(2)	(f * g)	Charge	Revenue (h * i)	month unbilled	Revenue (1)	(e + j + k + l)
Mar-21 Apr-21 May-21	42,961,357 31,816,647 30,909,874	36.5% 46.4% 49.8%	15,662,029 14,760,788 15,384,596	\$0.08287 \$0.08287 \$0.08287	\$1,297,912 \$1,223,227 \$1,274,921	15,155,348 12,094,144 12,343,800	36.5% 46.4% 49.8%	5,525,046 5,610,871 6,143,809	\$0.07674 \$0.07674 \$0.07674	\$423,992 \$430,578 \$471,476	(\$2,255,151) (\$1,721,904) (\$1,653,805)	\$4,749,723 \$3,528,136 \$3,444,652	\$4,216,476 \$3,460,036 \$3,537,244
Jun-21	39,864,282	55.2%	21,990,853	\$0.06332	\$1,392,461	14,221,351	55.2%	7,845,109	\$0.05233	\$410,535	(\$1,746,397)	\$3,742,908	\$3,799,506
Jul-21	46,644,125	41.2%	19,236,243	\$0.06332	\$1,218,039	15,575,899	41.2%	6,423,569	\$0.05233	\$336,145	(\$1,802,995)	\$3,808,583	\$3,559,772
Aug-21	46,790,839	56.1%	26,235,607	\$0.06332	\$1,661,239	16,245,688	56.1%	9,108,951	\$0.05233	\$476,671	(\$1,554,184)	\$3,829,601	\$4,413,327
Sep-21	45,616,718	32.6%	14,850,308	\$0.06332	\$940,322	15,744,815	32.6%	5,125,651	\$0.05233	\$268,225	(\$2,137,910)	\$3,635,727	\$2,706,364
Oct-21	31,784,306	54.1%	17,185,386	\$0.06332	\$1,088,179	12,607,350	54.1%	6,816,640	\$0.05233	\$356,715	(\$1,208,547)	\$2,641,017	\$2,877,364
Nov-21	31,687,113	64.8%	20,548,078	\$0.06332	\$1,301,104	12,019,003	64.8%	7,793,939	\$0.05233	\$407,857	(\$1,444,893)	\$2,678,965	\$2,943,033
Dec-21	40,764,913	54.2%	22,075,669	\$0.16742	\$3,695,909	14,210,070	54.2%	7,695,265	\$0.14605	\$1,123,893	(\$1,708,961)	\$6,266,505	\$9,377,346
Jan-22	47,351,821	50.9%	24,092,722	\$0.16742	\$4,033,604	15,969,804	50.9%	8,125,475	\$0.14605	\$1,186,726	(\$4,819,802)	\$10,563,573	\$10,964,100
Feb-22 Total	<u>43,594,244</u> 479,786,239	45.6%	19,873,953	\$0.16742	\$3,327,297 \$22,454,212	<u>15,718,055</u> 171,905,327	45.6%	7,165,622	\$0.14605	\$1,046,539 \$6,939,353	(\$5,220,329) (\$27,274,880)	\$9,947,330 \$58,836,721	\$9,100,837 \$60,955,406

(1) Per billing system
(2) Detail of Unbilled Factors for the Residential, Regular General, and Outdoor Lighting Classes:

	Non-G1 Class Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh
Mar-21	76,577,600	27,917,195	36.5%
Apr-21	59,223,957	27,475,940	46.4%
May-21	58,834,327	29,283,275	49.8%
Jun-21	72,233,839	39,847,293	55.2%
Jul-21	81,723,130	33,702,979	41.2%
Aug-21	82,632,258	46,331,878	56.1%
Sep-21	80,516,933	26,211,909	32.6%
Oct-21	59,977,407	32,429,051	54.1%
Nov-21	58,582,379	37,988,797	64.8%
Dec-21	71,717,724	38,837,731	54.2%
Jan-22	81,549,550	41,492,610	50.9%
Feb-22	76,786,401	35,005,753	45.6%

Redacted Schedule LSM-2 Page 5 of 5

Unitil Energy Systems, Inc. Itemized Costs for Non-G1 Class Default Service Charge

	(a)	(b)	(c)		lation of Working ( ges and GIS Supp (e)		(g)	(h)	(i)	<b>(j)</b>	(k)	(1)	(m)	(n)	(o)	(p)
	Non-G1 Class (Residential) DS Supplier Charges (1)	Non-G1 Class (G2 and OL) DS Supplier Charges (1)	GIS Support Payments	Number of Days of Lag / 365 (2)	Working Capital Requirement ((a+b+c)*d)	Prime Rate	Supply Related Working Capital (e * f)	Provision for Uncollected Accounts	Internal Company Administrative Costs	Legal Charges	Consulting Outside Service Charges	Default Service Portion of the annual PUC Assessment	Non-G1 Class (Residential) DS Supplier Charges (col. a)	Non-G1 Class (G2 and OL) DS Supplier Charges (col. b)	Costs (sum col. c	
Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Total			\$478 \$485 \$606 \$683 \$548 <u>\$461</u> \$3,261	6.17% 6.17% 6.17% 6.17% 6.17% 6.17%		3.50% 3.50% 3.50% 3.50% 3.50% 3.50%			\$3,007 \$3,007 \$3,007 \$3,007 \$3,007 \$3,007 \$18,042	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$833 \$833 \$833 \$833 \$833 \$5,000				\$3,923,640 \$5,484,326 \$6,335,218 \$4,650,072 \$4,096,078 \$6,033,821 \$30,523,156

#### Total Costs Allocated to the Residential Class and the G2/OL Class

	Non-G1 Class (Residential) DS Supplier Charges (col. a)	Allocation of Remaining Costs (col. o) to Residential Class (3) (ii)	Total Non-G1 Class (Residential) Power Supply Charges (iii) = (i) + (ii)	Non-G1 Class (G2 and OL) DS Supplier Charges (col. b) (iv)	Allocation of Remaining Costs (col. o) to G2 and OL Class (3) (v)	Total Non-G1 Class (G2 and OL) Power Supply Charges (vi) = (iv) + (v)
Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Total			\$2,707,394 \$3,872,078 \$4,540,764 \$3,280,713 \$2,827,234 \$4,226,695 \$21,454,879			\$1,216,247 \$1,612,248 \$1,794,453 \$1,369,359 \$1,268,844 \$1,807,126 \$9,068,277

- (1) Estimates based on monthly average wholesale rate times estimated monthly purchases.
  (2) Number of days lag equals 22.52. Calculated using revenue lag of 58.28 days less cost lead of 35.76 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 22-017 filed March, 25, 2022.
  (3) Remaining Costs (column o) allocated between the Residential Class and the G2 and Outdoor Lighting Class based on estimated monthly kWh purchases, as shown below:
- Residential G2 and OL

	Estimated kWh Purchases - Residential	Estimated kWh Purchases - G2	Total Non-G1 Class kWh	Class kWh Purchases / Total Non-G1 Class kWh	Class kWh Purchases / Total Non-G1 Class kWh
	Class	and OL Class	Purchases	Purchases	Purchases
un-22	33,522,825	16,490,877	50,013,703	67.0%	33.0%
Jul-22	43,413,342	19,021,120	62,434,462	69.5%	30.5%
ug-22	49,706,529	20,692,145	70,398,674	70.6%	29.4%
Sep-22	38,583,854	17,893,536	56,477,390	68.3%	31.7%
Oct-22	31,610,590	15,866,604	47,477,194	66.6%	33.4%
lov-22	35,032,503	16,077,538	51,110,040	68.5%	31.5%
Total	231.869.643	106.041.819	337.911.462		

1	Reconciliation (1)	Jun-22 Estimated (\$150,253)	Jul-22 <u>Estimated</u> (\$187,567)	Aug-22 Estimated (\$211,494)	Sep-22 <u>Estimated</u> (\$169,671)	Oct-22 <u>Estimated</u> (\$142,632)	Nov-22 Estimated (\$153,546)	<u>Total</u> (\$1,015,164)
2	Total Costs (Page 5)	<u>\$356,315</u>	<u>\$444,798</u>	<u>\$501,533</u>	<u>\$402,361</u>	<u>\$338,245</u>	<u>\$364,122</u>	\$2,407,374
3	Reconciliation plus Total Costs (L.1 + L.2)	\$206,063	\$257,230	\$290,039	\$232,690	\$195,613	\$210,576	\$1,392,210
4	kWh Purchases	50,013,703	62,434,462	70,398,674	56,477,390	47,477,194	<u>51,110,040</u>	337,911,462
5	Total, Before Losses (L.3 / L.4)	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412
6	Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
7 8	Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6)) Total Retail Rate - Fixed RPS Charge (L.5 * (1+L.6))	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438	\$0.00438

(1) Balance as of February 28, 2022 modified, as detailed below, to reflect that current rates include a reconciliation through May 31, 2022. Figure is then allocated between rate periods (June-November 2022 and December 2022-May 2023) and then to each month, June through November 2022, on equal per kWh basis.

a February 28, 2022 actual balance - Schedule LSM-3, Page 2

(\$2,074,408)

(\$2,027,489)

b less: Estimated remaining prior period reconciliation - Mar, Apr, May 2022:

С	Estimated kWh Sales Mar-May 2022	142,180,216
d	Amount of reconciliation in current RPS Charge	(\$0.00033)
е	Estimated amount of reconciliation - Mar-May 2022	(\$46,919)

f Total reconciliation for June 1, 2022-May 31, 2023 (line a - line e)

	Non-G1 total		Reconciliation
	kWh purchases	% per period	per period
Rate period: June-November 2022	337,911,462	50.07%	(\$1,015,164)
Rate period: December 2022-May 2023	<u>337,018,104</u>	49.93%	(\$1,012,325)
Total	674 929 567		(\$2 027 480)

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
				<b>Ending Balance</b>			Number of		
		Total Costs	Total Revenue	Before Interest	Average Monthly	Interest	Days /	Computed	Ending Balance with
	Beginning Balance	(Page 3)	(Page 4)	(a + b - c)	Balance ((a+d) / 2)	Rate	Month	Interest	Interest (d + h)
Mar-21	\$150,570	\$409,272	\$530,820	\$29,022	\$89,796	3.25%	31	\$248	\$29,270
Apr-21	\$29,270	\$423,826	\$443,262	\$9,834	\$19,552	3.25%	30	\$52	\$9,887
May-21	\$9,887	\$423,826	\$456,775	(\$23,062)	(\$6,588)	3.25%	31	(\$18)	(\$23,080)
Jun-21	(\$23,080)	(\$1,007,151)	\$482,999	(\$1,513,231)	(\$768,156)	3.25%	30	(\$2,052)	(\$1,515,283)
Jul-21	(\$1,515,283)	\$392,625	\$440,565	(\$1,563,222)	(\$1,539,252)	3.25%	31	(\$4,249)	(\$1,567,471)
Aug-21	(\$1,567,471)	\$392,625	\$551,971	(\$1,726,817)	(\$1,647,144)	3.25%	31	(\$4,547)	(\$1,731,364)
Sep-21	(\$1,731,364)	\$626,570	\$349,085	(\$1,453,879)	(\$1,592,621)	3.25%	30	(\$4,254)	(\$1,458,133)
Oct-21	(\$1,458,133)	\$418,619	\$367,491	(\$1,407,006)	(\$1,432,569)	3.25%	31	(\$3,954)	(\$1,410,960)
Nov-21	(\$1,410,960)	\$418,619	\$364,709	(\$1,357,050)	(\$1,384,005)	3.25%	30	(\$3,697)	(\$1,360,747)
Dec-21	(\$1,360,747)	(\$307,825)	\$437,123	(\$2,105,695)	(\$1,733,221)	3.25%	31	(\$4,784)	(\$2,110,479)
Jan-22	(\$2,110,479)	\$540,432	\$509,806	(\$2,079,854)	(\$2,095,166)	3.25%	31	(\$5,783)	(\$2,085,637)
Feb-22	(\$2,085,637)	\$436,812	\$420,404	(\$2,069,229)	(\$2,077,433)	3.25%	28	<u>(\$5,179)</u>	(\$2,074,408)
Total		\$3,168,248	\$5,355,009					(\$38,218)	

	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
		Days of Lag /	Requirement		Supply Related Working	
_	Renewable Energy Credits	365 (1)	(a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
Mar-21	\$414,995	(42.44%)	(\$176,106)	3.25%	(\$5,723)	\$409,272
Apr-21	\$429,753	(42.44%)	(\$182,368)	3.25%	(\$5,927)	\$423,826
May-21	\$429,753	(42.44%)	(\$182,368)	3.25%	(\$5,927)	\$423,826
Jun-21	(\$1,028,082)	(62.64%)	\$644,030	3.25%	\$20,931	(\$1,007,151)
Jul-21	\$400,784	(62.64%)	(\$251,067)	3.25%	(\$8,160)	\$392,625
Aug-21	\$400,784	(62.64%)	(\$251,067)	3.25%	(\$8,160)	\$392,625
Sep-21	\$639,591	(62.64%)	(\$400,664)	3.25%	(\$13,022)	\$626,570
Oct-21	\$427,318	(62.64%)	(\$267,689)	3.25%	(\$8,700)	\$418,619
Nov-21	\$427,318	(62.64%)	(\$267,689)	3.25%	(\$8,700)	\$418,619
Dec-21	(\$314,222)	(62.64%)	\$196,841	3.25%	\$6,397	(\$307,825)
Jan-22	\$551,663	(62.64%)	(\$345,583)	3.25%	(\$11,231)	\$540,432
Feb-22	<u>\$445,890</u>	(62.64%)	(\$279,323)	3.25%	(\$9,078)	<u>\$436,812</u>
Total	\$3,225,547		•		(\$57,299)	\$3,168,248

<sup>(1)</sup> For the months March-May 2021, number of days lag equals (154.89). Calculated using revenue lag of 58.69 days less cost lead of 213.58 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 20-039 filed April 3, 2020.

For the months June 2021-February 2022, number of days lag equals (228.65). Calculated using revenue lag of 59.97 days less cost lead of 288.62 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 21-041 filed April 2, 2021.

	(a) Total Non-G1	(b)	(c)	(d)	(e) Non-G1 Class	(f)	(g) Total Billed Non-	(h)
	Class Billed		Non-G1 Class		Unbilled RPS	Reversal of	G1 Class RPS	
	Default Service	Unbilled Factor	Unbilled kWh	Effective Fixed	Charge Revenue	prior month	Charge Revenue	Total Revenue
	kWh (1)	(2)	(a * b)	RPS Charge	(c * d)	unbilled	(1)	(e + f + g)
Mar-21	58,116,705	36.5%	21,187,075	\$0.01028	\$217,803	(\$285,052)	\$598,069	\$530,820
Apr-21	43.910.791	46.4%	20,371,659	\$0.01028	\$209,421	(\$203,032)	\$451,644	\$443,262
•	-,, -		, ,			( ' ' '	' '	
May-21	43,253,674	49.8%	21,528,405	\$0.01028	\$221,312	(\$209,421)	\$444,884	\$456,775
Jun-21	54,085,633	55.2%	29,835,962	\$0.00759	\$226,455	(\$221,312)	\$477,856	\$482,999
Jul-21	62,220,024	41.2%	25,659,812	\$0.00759	\$194,758	(\$226,455)	\$472,262	\$440,565
Aug-21	63,036,527	56.1%	35,344,558	\$0.00759	\$268,265	(\$194,758)	\$478,463	\$551,971
Sep-21	61,361,533	32.6%	19,975,959	\$0.00759	\$151,618	(\$268,265)	\$465,733	\$349,085
Oct-21	44,391,656	54.1%	24,002,026	\$0.00759	\$182,175	(\$151,618)	\$336,933	\$367,491
Nov-21	43,706,116	64.8%	28,342,016	\$0.00759	\$215,116	(\$182,175)	\$331,768	\$364,709
Dec-21	54,974,983	54.2%	29,770,934	\$0.00776	\$231,022	(\$215,116)	\$421,216	\$437,123
Jan-22	63,321,625	50.9%	32,218,197	\$0.00776	\$250,013	(\$231,022)	\$490,816	\$509,806
Feb-22	59,312,299	45.6%	27,039,575	\$0.00776	\$209,827	(\$250,013)	<u>\$460,590</u>	<u>\$420,404</u>
Total	651,691,566				\$2,577,785	(\$2,653,011)	\$5,430,234	\$5,355,009

(1) Per billing system(2) Detail of Unbilled Factors for the Residential, Regular General, and Outdoor Lighting Classes:

	Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh
Mar-21	76,577,600	27,917,195	36.5%
Apr-21	59.223.957	27.475.940	46.4%
May-21	58.834.327	29.283.275	49.8%
Jun-21	72,233,839	39,847,293	55.2%
Jul-21	81,723,130	33,702,979	41.2%
Aug-21	82,632,258	46,331,878	56.1%
Sep-21	80,516,933	26,211,909	32.6%
Oct-21	59,977,407	32,429,051	54.1%
Nov-21	58,582,379	37,988,797	64.8%
Dec-21	71,717,724	38,837,731	54.2%
Jan-22	81,549,550	41,492,610	50.9%
Feb-22	76.786.401	35.005.753	45.6%

	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
	Renewable Energy Credits	Days of Lag /	Requirement		Supply Related Working	
	(1)	365 (2)	(a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
Jun-22	\$365,069	(68.51%)	(\$250,097)	3.50%	(\$8,753)	\$356,315
Jul-22	\$455,725	(68.51%)	(\$312,203)	3.50%	(\$10,927)	\$444,798
Aug-22	\$513,854	(68.51%)	(\$352,025)	3.50%	(\$12,321)	\$501,533
Sep-22	\$412,246	(68.51%)	(\$282,417)	3.50%	(\$9,885)	\$402,361
Oct-22	\$346,555	(68.51%)	(\$237,414)	3.50%	(\$8,309)	\$338,245
Nov-22	<u>\$373,067</u>	(68.51%)	(\$255,577)	3.50%	<u>(\$8,945)</u>	<u>\$364,122</u>
Total	\$2,466,515				(\$59,141)	\$2,407,374

<sup>(1)</sup> Schedule JMP-4.

<sup>(2)</sup> Number of days lag equals (250.05). Calculated using revenue lag of 58.28 days less cost lead of 308.33 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 22-017 filed March 25, 2022.

	Total <u>Jun22-Nov22</u>
1 Reconciliation (1)	\$235,673
2 Total Costs excl. wholesale supplier charge (Page 5)	<u>\$29,567</u>
3 Reconciliation plus Total Costs excl. wholesale supplier charge (L.1 + L.2)	\$265,240
4 kWh Purchases	<u>31,230,935</u>
5 Total, Before Losses (L.3 / L.4)	\$0.00849
6 Losses	<u>4.591%</u>
7 Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6)) (2)	\$0.00888

(1) Balance as of February 28, 2022 modified, as detailed below, to reflect that current rates include a reconciliation through May 31, 2022 and to incorporate the difference between the estimated supplier cost and revenue in March 2022. Figure is then allocated between rate periods (June-November 2022 and December 2022-May 2023) and then to each month, June through November 2022, on equal per kWh basis.

а	February 28, 2022 actual balance - Schedule LSM-4, Page 2		\$522,675							
b	, , , , , , , , , , , , , , , , , , ,									
c d		econciliation in current rate	\$0.00198							
e	Estimated amount of rec	\$23,661								
f	plus: Difference between the estimated supplier cost and revenue for March	(\$52,721)								
g	Total reconciliation for June 1, 2022-May 31, 2023 (line a - line e + line f)	\$446,293								
h	kWh purchases forecast June-November 2022		31,230,935	52.81%						
i	kWh purchases forecast December 2022-May 2023		27,911,051	47.19%						
j	Total		59,141,986							
k	Reconciliation amount for June-November 2022	(line g * line h%)	\$235,673							
I	Reconciliation amount for December 2022-May 2023	(line g * line i%)	<u>\$210,620</u>							
m	Total	(line k + line l)	\$446,293							

<sup>(2)</sup> The total G1 Power Supply Charge will equal the sum of Line 7 plus a wholesale supplier charge which shall be determined at the end of each month. The wholesale supply charges will be determined as the sum of the average ISO-New England real time hourly locational marginal prices for the New Hampshire load zone, weighted by the wholesale hourly kWh volumes of the Company's G1 Default Service customers, and charges for capacity, ancillary services, and other supplier costs established through a competitive bidding process.

	(a)	(b)	(c)	(d) Ending	(e)	(f)	(g)	(h)	(i)
				Balance	Average				
				Before	Monthly				<b>Ending Balance</b>
	Beginning	Total Costs (Page	Total Revenue	Interest	Balance		Number of	Computed	with Interest (d
	Balance	3)	(Page 4)	(a + b - c)	((a+d) / 2)	Interest Rate	Days / Month	Interest	+ h)
Mar-21	\$233,485	\$258,620	\$475,416	\$16,689	\$125,087	3.25%	31	\$345	\$17,035
Apr-21	\$17,035	(\$98,040)	\$255,193	(\$336,198)	(\$159,582)	3.25%	30	(\$426)	(\$336,625)
May-21	(\$336,625)	\$540,760	\$222,865	(\$18,730)	(\$177,677)	3.25%	31	\$328 (1)	(\$18,401)
Jun-21	(\$18,401)	\$327,697	\$254,972	\$54,323	\$17,961	3.25%	30	\$48	\$54,371
Jul-21	\$54,371	\$326,605	\$348,707	\$32,269	\$43,320	3.25%	31	\$120	\$32,388
Aug-21	\$32,388	\$447,959	\$414,849	\$65,499	\$48,944	3.25%	31	\$135	\$65,634
Sep-21	\$65,634	\$383,383	\$384,138	\$64,880	\$65,257	3.25%	30	\$174	\$65,054
Oct-21	\$65,054	\$392,321	\$426,341	\$31,034	\$48,044	3.25%	31	\$133	\$31,167
Nov-21	\$31,167	\$394,287	\$357,872	\$67,582	\$49,374	3.25%	30	\$132	\$67,714
Dec-21	\$67,714	\$438,613	\$384,688	\$121,638	\$94,676	3.25%	31	\$261 (2)	\$121,899
Jan-22	\$121,899	\$871,306	\$400,818	\$592,387	\$357,143	3.25%	31	\$986	\$593,373
Feb-22	\$593,373	<u>\$583,230</u>	\$655,317	\$521,286	\$557,329	3.25%	28	<b>\$1,390</b>	\$522,675
Total		\$4,866,743	\$4,581,178					\$3,625	

<sup>(1)</sup> Includes \$818.76 to adjust interest related to January 2021 invoice reclassed from Non-G1 to G1 power supply.

<sup>(2)</sup> Includes (\$0.77) associated with November 2021 reclass of (\$286.31) moved to the External Delivery Charge.

# Redacted

Unitil Energy Systems, Inc. Itemized Costs for G1 Class Default Service Power Supply Charge

Schedule LSM-4 Page 3 of 5

			Suppl	Calculation of ier Charges and								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) Internal	(i)	(j)	(k) Default Service	(1)
	Total G1 Class	GIS	Number of	Working		Supply Related	Provision for	Company		Consulting	Portion of the	Total Costs
	DS Supplier	Support	Days of Lag	Capital		Working Capital	Uncollected	Administrative	Legal	Outside Service	annual PUC	(sum a + b + f +
	Charges	Payments	/ 365 (1)	Requirement	Prime Rate	(d * e)	Accounts	Costs	Charges	Charges	Assessment	g + h + i + j + k)
Mar-21		\$37	(2.07%)		3.25%			\$4,917	\$0	\$0	\$58	\$258,620
Apr-21		\$43	(2.07%)		3.25%			\$4,917	\$44	\$0	\$67	(\$98,040)
May-21		\$46	(2.07%)		3.25%			\$4,917	\$0	\$0	\$71	\$540,760
Jun-21		\$45	0.24%		3.25%			\$4,917	\$0	\$0	\$69	\$327,697
Jul-21		\$111	0.24%		3.25%			\$4,917	\$0	\$0	\$67	\$326,605
Aug-21		\$46	0.24%		3.25%			\$4,917	\$0	\$0	\$67	\$447,959
Sep-21		\$43	0.24%		3.25%			\$4,917	\$23	\$0	\$68	\$383,383
Oct-21		\$56	0.24%		3.25%			\$4,917	\$286	\$0	\$83	\$392,321
Nov-21		\$47	0.24%		3.25%			\$4,917	(\$286)	\$0	\$75	\$394,287
Dec-21		\$40	0.24%		3.25%			\$4,668	\$48	\$0	\$66	\$438,613
Jan-22		\$36	0.24%		3.25%			\$4,668	\$0	\$0	\$54	\$871,306
Feb-22		<u>\$37</u>	0.24%		3.25%			\$4,668	<u>\$0</u>	<u>\$0</u>	<u>\$55</u>	\$583,230
Total		\$589		-	•			\$58,254	\$ <del>11</del> 6	<u>\$0</u> \$0	\$800	\$4,866,743

<sup>(1)</sup> For the months March-May 2021, number of days lag equals (7.56). Calculated using revenue lag of 39.31 days less cost lead of 46.87 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 20-039 filed April 3, 2020.

For the months June 2021-February 2022, number of days lag equals 0.89. Calculated using revenue lag of 41.89 days less cost lead of 41.00 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 21-041 filed April 2, 2021.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
					G1 Class Unbilled		Total Billed G1	
	Total G1 Class		G1 Class	Effective	Power Supply		Class Power	
	Billed Default	Unbilled Factor	Unbilled kWh	Variable Power	Charge Revenue (c *	Reversal of prior	Supply Charge	Total Revenue
	Service kWh (1)	(2)	(a * b)	Supply Charge	d)	month unbilled	Revenue (1)	(e + f + g)
Man 04	4 227 205	44.40/	4 704 006	<b>CO 44444</b>	<b>#202 C40</b>	(\$4.4C 02E)	¢447.000	Φ47E 44C
Mar-21	4,337,305	41.1%	1,784,206	\$0.11414	\$203,649	(\$146,035)	\$417,802	\$475,416
Apr-21	3,854,860	47.2%	1,821,152	\$0.06830	\$124,385	(\$203,649)	\$334,458	\$255,193
May-21	4,040,141	49.8%	2,010,876	\$0.05348	\$107,542	(\$124,385)	\$239,708	\$222,865
Jun-21	4,862,335	43.0%	2,089,038	\$0.05163	\$107,857	(\$107,542)	\$254,657	\$254,972
Jul-21	5,412,467	44.0%	2,379,300	\$0.06090	\$144,899	(\$107,857)	\$311,665	\$348,707
Aug-21	5,505,987	49.3%	2,712,653	\$0.07065	\$191,649	(\$144,899)	\$368,100	\$414,849
Sep-21	5,444,638	41.7%	2,270,215	\$0.07627	\$173,149	(\$191,649)	\$402,637	\$384,138
Oct-21	4,893,990	54.1%	2,646,121	\$0.08066	\$213,436	(\$173,149)	\$386,054	\$426,341
Nov-21	4,346,906	58.7%	2,550,825	\$0.08371	\$213,530	(\$213,436)	\$357,779	\$357,872
Dec-21	4,706,712	51.8%	2,436,574	\$0.08376	\$204,087	(\$213,530)	\$394,130	\$384,688
Jan-22	4,424,118	47.3%	2,091,778	\$0.09634	\$201,522	(\$204,087)	\$403,383	\$400,818
Feb-22	4,198,158	46.9%	1,970,798	\$0.15608	\$307,602	<u>(\$201,522)</u>	\$549,237	\$655,317
Total	56,027,617				\$2,193,308	(\$2,031,740)	\$4,419,611	\$4,581,178

<sup>(1)</sup> Per billing system

<sup>(2)</sup> Detail of Unbilled Factors for the Large General Class:

		Direct	
	Billed	Estimate of	Unbilled kWh
	kWh	Unbilled kWh	Billed kWh
Mar-21	27,626,162	11,364,379	41.1%
Apr-21	24,806,383	11,719,285	47.2%
May-21	25,750,269	12,816,535	49.8%
Jun-21	28,940,957	12,434,101	43.0%
Jul-21	30,282,704	13,312,162	44.0%
Aug-21	30,963,896	15,255,088	49.3%
Sep-21	31,233,773	13,023,341	41.7%
Oct-21	26,570,782	14,366,497	54.1%
Nov-21	24,643,173	14,460,958	58.7%
Dec-21	26,229,003	13,578,251	51.8%
Jan-22	26,241,532	12,407,324	47.3%
Feb-22	25,990,364	12,201,007	46.9%

Calculation	of Working (	Capital	

					g cap.							
			Suppl	ier Charges and	d GIS Support	Payments						
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)
				Working				Internal			Default Service	
	Total G1 Class	GIS	Number of	Capital		Supply Related	Provision for	Company		Consulting	Portion of the	Total Costs
	DS Supplier	Support	Days of Lag	Requirement		Working Capital	Uncollected	Administrative	Legal	Outside Service	annual PUC	(sum a + b + f +
	Charges (1)	Payments	/ 365 (2)	(3)	Prime Rate	(d * e)	Accounts	Costs	Charges	Charges	Assessment	g + h + i + j + k)
Jun-22		\$47	1.15%	\$3,315	3.50%	\$116	\$0	\$4,668	\$0	\$0	\$71	\$4,902
Jul-22		\$49	1.15%	\$4,071	3.50%	\$142	\$0	\$4,668	\$0	\$0	\$71	\$4,930
Aug-22		\$53	1.15%	\$4,399	3.50%	\$154	\$0	\$4,668	\$0	\$0	\$71	\$4,946
Sep-22		\$56	1.15%	\$3,640	3.50%	\$127	\$0	\$4,668	\$0	\$0	\$71	\$4,923
Oct-22		\$51	1.15%	\$3,531	3.50%	\$124	\$0	\$4,668	\$0	\$0	\$71	\$4,914
Nov-22		<u>\$48</u>	1.15%	\$4,727	3.50%	<u>\$165</u>	<u>\$0</u>	<u>\$4,668</u>	<u>\$0</u>	<u>\$0</u>	<u>\$71</u>	<u>\$4,952</u>
Total		\$304				\$829	\$0	\$28,006	\$0	\$0	\$428	\$29,567

(1) DS Supplier Charges to be determined at the end of each month.

(2) Number of days lag equals 4.20. Calculated using revenue lag of 43.25 days less cost lead of 39.05 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 22-017 filed March 25, 2022.

(3) The working capital requirement equals the supplier charge plus GIS Support payment times the number of days lag divided by 365. As the G1 class supplier charge is not determined using a contract price, estimates of the G1 class power supply costs were calculated based on the forecasted G1 class kWh purchases and an estimated price per kWh. The estimated price per kWh was determined by comparing a historical relationship between G1 and Non-G1 class supplier pricing and then applying that relationship to the current average Non-G1 supplier price per kWh. Actual working capital will be determined using the actual supplier charges in each month.

		Jun-22 Estimated	Jul-22 Estimated	Aug-22 Estimated	Sep-22 Estimated	Oct-22 Estimated	Nov-22 Estimated	<u>Total</u>
1	Reconciliation (1)	(\$13,931)	(\$15,161)	(\$16,050)	(\$14,685)	(\$13,623)	(\$13,194)	(\$86,643)
2	Total Costs (Page 5)	<u>\$36,371</u>	<u>\$39,583</u>	<u>\$41,902</u>	<u>\$38,339</u>	<u>\$35,566</u>	<u>\$34,446</u>	\$226,207
3	Reconciliation plus Total Costs (L.1 + L.2)	\$22,440	\$24,422	\$25,853	\$23,654	\$21,943	\$21,252	\$139,564
4	kWh Purchases	<u>5,021,504</u>	<u>5,464,982</u>	<u>5,785,176</u>	<u>5,293,166</u>	4,910,387	4,755,719	31,230,935
5	Total, Before Losses (L.3 / L.4)	\$0.00447	\$0.00447	\$0.00447	\$0.00447	\$0.00447	\$0.00447	
6	Losses	<u>4.591%</u>	4.591%	4.591%	<u>4.591%</u>	4.591%	4.591%	
7	Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6))	\$0.00467	\$0.00467	\$0.00467	\$0.00467	\$0.00467	\$0.00467	

(1) Balance as of February 28, 2022 modified, as detailed below, to reflect that current rates include a reconciliation through May 31, 2022. Figure is then allocated between rate periods (June-November 2022 and December 2022-May 2023) and then to each month, June through November 2022, on equal per kWh basis.

a February 28, 2022 actual balance - Schedule LSM-5, Page 2

(\$170,639)

or, May 2022:		
h Sales Mar-May 2022	11,950,055	
nciliation in current rate	<u>(\$0.00055)</u>	
liation - Mar-May 2022	(\$6,573)	
ne e)	(\$164,066)	
	31,230,935	52.81%
	<u>27,911,051</u>	47.19%
	59,141,986	
(line f * line g%)	(\$86,643)	
(line f * line h%)	<u>(\$77,423)</u>	
(line j + line k)	(\$164,066)	
	h Sales Mar-May 2022 nciliation in current rate liation - Mar-May 2022 ne e)  (line f * line g%) (line f * line h%)	h Sales Mar-May 2022 h ciliation in current rate liation - Mar-May 2022  (\$0.00055) (\$6,573)  h Sales Mar-May 2022  (\$0.00055) (\$6,573)  h e e)  (\$164,066)  31,230,935 27,911,051 59,141,986  (line f * line g%) (line f * line h%)  (\$86,643) (\$77,423)

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
				<b>Ending Balance</b>			Number of		
		Total Costs	Total Revenue	Before Interest	Average Monthly	Interest	Days /	Computed	Ending Balance with
	Beginning Balance	(Page 3)	(Page 4)	(a + b - c)	Balance ((a+d) / 2)	Rate	Month	Interest	Interest (d + h)
Mar-21	(\$10,385)	\$31,309	\$36,962	(\$16,038)	(\$13,212)	3.25%	31	(\$36)	(\$16,075)
Apr-21	(\$16,075)	\$32,422	\$35,805	(\$19,457)	(\$17,766)	3.25%	30	(\$47)	(\$19,505)
May-21	(\$19,505)	\$32,422	\$38,915	(\$25,997)	(\$22,751)	3.25%	31	(\$63)	(\$26,060)
Jun-21	(\$26,060)	(\$77,069)	\$36,157	(\$139,286)	(\$82,673)	3.25%	30	(\$221)	(\$139,507)
Jul-21	(\$139,507)	\$30,044	\$42,028	(\$151,491)	(\$145,499)	3.25%	31	(\$402)	(\$151,893)
Aug-21	(\$151,893)	\$30,044	\$42,861	(\$164,709)	(\$158,301)	3.25%	31	(\$437)	(\$165,146)
Sep-21	(\$165,146)	\$73,423	\$36,716	(\$128,439)	(\$146,793)	3.25%	30	(\$392)	(\$128,831)
Oct-21	(\$128,831)	\$34,864	\$38,681	(\$132,648)	(\$130,740)	3.25%	31	(\$361)	(\$133,009)
Nov-21	(\$133,009)	\$34,864	\$31,207	(\$129,352)	(\$131,180)	3.25%	30	(\$350)	(\$129,702)
Dec-21	(\$129,702)	\$86,160	\$33,303	(\$76,845)	(\$103,274)	3.25%	31	(\$285)	(\$77,130)
Jan-22	(\$77,130)	(\$66,821)	\$31,261	(\$175,212)	(\$126,171)	3.25%	31	(\$348)	(\$175,560)
Feb-22	(\$175,560)	\$36,379	<u>\$31,027</u>	(\$170,208)	(\$172,884)	3.25%	28	(\$431)	(\$170,639)
Total	•	\$278,043	\$434,923					(\$3,374)	

			Calculati	on of Working	Capital	
	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
		Days of Lag /	Requirement		Supply Related Working	
<del>-</del>	Renewable Energy Credits	365 (1)	(a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
Mar-21	\$31,765	(44.17%)	(\$14,030)	3.25%	(\$456)	\$31,309
Apr-21	\$32,894	(44.17%)	(\$14,528)	3.25%	(\$472)	\$32,422
May-21	\$32,894	(44.17%)	(\$14,528)	3.25%	(\$472)	\$32,422
Jun-21	(\$78,692)	(63.45%)	\$49,934	3.25%	\$1,623	(\$77,069)
Jul-21	\$30,677	(63.45%)	(\$19,466)	3.25%	(\$633)	\$30,044
Aug-21	\$30,677	(63.45%)	(\$19,466)	3.25%	(\$633)	\$30,044
Sep-21	\$74,969	(63.45%)	(\$47,572)	3.25%	(\$1,546)	\$73,423
Oct-21	\$35,598	(63.45%)	(\$22,589)	3.25%	(\$734)	\$34,864
Nov-21	\$35,598	(63.45%)	(\$22,589)	3.25%	(\$734)	\$34,864
Dec-21	\$87,975	(63.45%)	(\$55,824)	3.25%	(\$1,814)	\$86,160
Jan-22	(\$68,228)	(63.45%)	\$43,294	3.25%	\$1,407	(\$66,821)
Feb-22	<u>\$37,145</u>	(63.45%)	(\$23,571)	3.25%	<u>(\$766)</u>	<u>\$36,379</u>
Total	\$283,274				(\$5,230)	\$278,043

<sup>(1)</sup> For the months March-May 2021, number of days lag equals (161.21). Calculated using revenue lag of 39.31 days less cost lead of 200.52 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 20-039 filed April 3, 2020.

For the months June 2021-February 2022, number of days lag equals (231.61). Calculated using revenue lag of 41.89 days less cost lead of 273.50 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 21-041 filed April 2, 2021.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Total G1 Class Billed Default Service kWh (1)	Unbilled Factor (2)	G1 Class Unbilled kWh (a * b)	Effective Variable RPS Charge	G1 Class Unbilled RPS Charge Revenue (c * d)	Reversal of prior month unbilled	Total Billed G1 Class RPS Charge Revenue (1)	Total Revenue (e + f + g)
Mar-21	4,337,305	41.1%	1,784,206	\$0.00920	\$16,415	(\$19,356)	\$39,903	\$36,962
Apr-21	3,854,860	47.2%	1,821,152	\$0.00920	\$16,755	(\$16,415)	\$35,465	\$35,805
May-21	4,040,141	49.8%	2,010,876	\$0.00920	\$18,500	(\$16,755)	\$37,169	\$38,915
Jun-21	4,862,335	43.0%	2,089,038	\$0.00734	\$15,334	(\$18,500)	\$39,324	\$36,157
Jul-21	5,412,467	44.0%	2,379,300	\$0.00734	\$17,464	(\$15,334)	\$39,898	\$42,028
Aug-21	5,505,987	49.3%	2,712,653	\$0.00734	\$19,911	(\$17,464)	\$40,414	\$42,861
Sep-21	5,444,638	41.7%	2,270,215	\$0.00734	\$16,663	(\$19,911)	\$39,964	\$36,716
Oct-21	4,893,990	54.1%	2,646,121	\$0.00734	\$19,423	(\$16,663)	\$35,922	\$38,681
Nov-21	4,346,906	58.7%	2,550,825	\$0.00734	\$18,723	(\$19,423)	\$31,906	\$31,207
Dec-21	4,706,712	51.8%	2,436,574	\$0.00726	\$17,690	(\$18,723)	\$34,337	\$33,303
Jan-22	4,424,118	47.3%	2,091,778	\$0.00761	\$15,918	(\$17,690)	\$33,032	\$31,261
Feb-22	<u>4,198,158</u>	46.9%	1,970,798	\$0.00761	<u>\$14,998</u>	(\$15,918)	<u>\$31,948</u>	\$31,027
Total	56,027,617				\$207,793	(\$212,151)	\$439,281	\$434,923

<sup>(1)</sup> Per billing system(2) Detail of Unbilled Factors for the Large General Class:

		Direct	
	Billed	Estimate of	Unbilled kWh /
	kWh	Unbilled kWh	Billed kWh
Mar-21	27,626,162	11,364,379	41.1%
Apr-21	24,806,383	11,719,285	47.2%
May-21	25,750,269	12,816,535	49.8%
Jun-21	28,940,957	12,434,101	43.0%
Jul-21	30,282,704	13,312,162	44.0%
Aug-21	30,963,896	15,255,088	49.3%
Sep-21	31,233,773	13,023,341	41.7%
Oct-21	26,570,782	14,366,497	54.1%
Nov-21	24,643,173	14,460,958	58.7%
Dec-21	26,229,003	13,578,251	51.8%
Jan-22	26,241,532	12,407,324	47.3%
Feb-22	25,990,364	12,201,007	46.9%

			Calculati	on of Working	Capital	
	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
	Renewable Energy Credits	Days of Lag /	Requirement		Supply Related Working	
-	(1)	365 (2)	(a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
Jun-22	\$37,303	(71.39%)	(\$26,630)	3.50%	(\$932)	\$36,371
Jul-22	\$40,597	(71.39%)	(\$28,982)	3.50%	(\$1,014)	\$39,583
Aug-22	\$42,976	(71.39%)	(\$30,680)	3.50%	(\$1,074)	\$41,902
Sep-22	\$39,321	(71.39%)	(\$28,071)	3.50%	(\$982)	\$38,339
Oct-22	\$36,478	(71.39%)	(\$26,041)	3.50%	(\$911)	\$35,566
Nov-22	<u>\$35,329</u>	(71.39%)	(\$25,221)	3.50%	<u>(\$883)</u>	<u>\$34,446</u>
Total	\$232,004				(\$5,797)	\$226,207

<sup>(1)</sup> Schedule JMP-4.

<sup>(2)</sup> Number of days lag equals (260.57). Calculated using revenue lag of 43.25 days less cost lead of 303.82 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 22-017 filed March 25, 2022.

# Unitil Energy Systems, Inc. Typical Bill Impacts by Rate Component

### Residential Rate D 650 kWh Bill

	3/1/2022	6/1/2022					%
							Difference
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	to Total Bill
Customer Charge	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	¢ (I-38/I-	¢/LAA/Ib					
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03942	\$0.03942	\$0.00000	\$25.62	\$25.62	\$0.00	0.0%
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000	\$19.36	\$19.36	\$0.00	0.0%
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000	(\$0.01)	(\$0.01)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.31	\$0.31	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$4.89	\$4.89	\$0.00	0.0%
Default Service Charge	\$0.17518	\$0.10117	(\$0.07401)	<b>\$113.87</b>	<u>\$65.76</u>	(\$48.11)	(26.7%)
Total kWh Charges	\$0.25235	\$0.17834	(\$0.07401)		<del></del>		<del> </del>
Total Bil	I			\$180.25	\$132.14	(\$48.11)	(26.7%)

	Regular Genera	al G2 Demand,	11 kW, 2,800 k	Wh Typical Bill	-		
	3/1/2022	6/1/2022					% Difference
Rate Components	Current Rate	As Revised	Difference	Current Bill	As Revised Bill	Difference	to Total Bill
Customer Charge	\$29.19	\$29.19	\$0.00	\$29.19	\$29.19	\$0.00	0.0%
	<u>All kW</u>	All kW					
Distribution Charge	\$10.51	\$10.51	\$0.00	\$115.61	\$115.61	\$0.00	0.0%
Stranded Cost Charge	<u>\$0.00</u>	<u>\$0.00</u>	\$0.00	\$0.00	<u>\$0.00</u>	\$0.00	0.0%
Total kW Charges	\$10.51	\$10.51	\$0.00	\$115.61	\$115.61	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00384	\$0.00384	\$0.00000	\$10.75	\$10.75	\$0.00	0.0%
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000	\$83.38	\$83.38	\$0.00	0.0%
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000	(\$0.06)	(\$0.06)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$1.32	\$1.32	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$21.06	\$21.06	\$0.00	0.0%
Default Service Charge	\$0.15381	\$0.09370	(\$0.06011)	\$430.67	\$262.36	<u>(\$168.31)</u>	(24.3%)
Total kWh Charges	\$0.19540	\$0.13529	(\$0.06011)	\$547.12	\$378.81	(\$168.31)	(24.3%)
Total Bi	II .			\$691.92	\$523.61	(\$168.31)	(24.3%)

# Unitil Energy Systems, Inc. Typical Bill Impacts by Rate Component

Regular Genera	l G2 Quick Reco	very Water He	ating and Spac	e Heating 1,66	0 kWh Typical Bill	_	
	3/1/2022	6/1/2022					% Difference to
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$9.73	\$9.73	\$0.00	\$9.73	\$9.73	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03588	\$0.03588	\$0.00000	\$59.56	\$59.56	\$0.00	0.0%
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000	\$49.43	\$49.43	\$0.00	0.0%
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000	(\$0.03)	(\$0.03)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.78	\$0.78	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$12.48	\$12.48	\$0.00	0.0%
Default Service Charge	<b>\$0.15381</b>	\$0.09370	<u>(\$0.06011)</u>	\$255.32	<u>\$155.54</u>	(\$99.78)	(25.8%)
Total kWh Charges	\$0.22744	\$0.16733	(\$0.06011)	\$377.55	\$277.77	(\$99.78)	(25.8%)
Total Bill	<u> </u>			\$387.28	\$287.50	(\$99.78)	(25.8%)

	Regular Ge	neral G2 kWh	Meter 115 kWh	Typical Bill			
	3/1/2022	6/1/2022					%
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Difference to <u>Total Bill</u>
Customer Charge	\$18.38	\$18.38	\$0.00	\$18.38	\$18.38	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.01267	\$0.01267	\$0.00000	\$1.46	\$1.46	\$0.00	0.0%
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000	\$3.42	\$3.42	\$0.00	0.0%
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000	(\$0.00)	(\$0.00)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.05	\$0.05	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$0.86	\$0.86	\$0.00	0.0%
Default Service Charge	<u>\$0.15381</u>	\$0.09370	<u>(\$0.06011)</u>	<b>\$17.69</b>	<u>\$10.78</u>	<u>(\$6.91)</u>	(16.5%)
Total kWh Charges	\$0.20423	\$0.14412	(\$0.06011)	\$23.49	\$16.57	(\$6.91)	(16.5%)
Total Bi	II			\$41.87	\$34.95	(\$6.91)	(16.5%)

#### Residential Rate D 653 kWh Bill - Mean Use\*

	3/1/2022	6/1/2022					%
Rate Components	Current Rate	As Revised	Difference	Current Bill	As Revised Bill	Difference	<u>Difference</u> to Total Bill
Customer Charge	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	\$/kWh	\$/kWh					
Distribution Charge	\$0.03942	\$0.03942	\$0.00000	\$25.74	\$25.74	\$0.00	0.0%
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000	\$19.45	\$19.45	\$0.00	0.0%
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000	(\$0.01)	(\$0.01)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.31	\$0.31	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$4.91	\$4.91	\$0.00	0.0%
Default Service Charge	\$0.17518	\$0.10117	(\$0.07401)	\$114.39	\$66.06	(\$48.33)	(26.7%)
Total kWh Charges	\$0.25235	\$0.17834	(\$0.07401)		<del></del>	-	<del></del>
Total Bill				\$181.00	\$132.68	(\$48.33)	(26.7%)

#### Residential Rate D 526 kWh Bill - Median Use\*

	3/1/2022	6/1/2022					%
Data Ormania	O	A - Davidson I	D:#	Commont Dill	A - Davis I Dill	D:#	<u>Difference</u>
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	to Total Bill
Customer Charge	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03942	\$0.03942	\$0.00000	\$20.73	\$20.73	\$0.00	0.0%
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000	\$15.66	\$15.66	\$0.00	0.0%
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000	(\$0.01)	(\$0.01)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.25	\$0.25	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$3.96	\$3.96	\$0.00	0.0%
Default Service Charge	<u>\$0.17518</u>	\$0.10117	(\$0.07401)	\$92.14	<u>\$53.22</u>	(\$38.93)	(26.1%)
Total kWh Charges	\$0.25235	\$0.17834	(\$0.07401)				
Total Bi	II			\$148.96	\$110.03	(\$38.93)	(26.1%)

<sup>\*</sup> Based on billing period January through December 2021.

# Unitil Energy Systems, Inc. Average Class Impacts Due to Proposed Default Service Rate Changes Effective June 1, 2022

(A) <u>Class of Service</u>	(B) Annual Number of Customers (luminaires for Outdoor Lighting)	(C) Annual kWh <u>Sales</u>	(D) Annual kW / kVA <u>Sales</u>	(E) Proposed DSC <u>Change \$</u>	(F) Estimated Annual Revenue \$ Under <u>Present Rates</u>	(G) Estimated Annual Revenue \$ Under Proposed Rates	(H) Proposed Net Change <u>Revenue</u> \$	(I) % Change DSC <u>Revenue</u>
Residential	815,280	515,968,592	n/a	(\$38,186,835)	\$143,428,508	\$105,241,672	(\$38,186,835)	(26.6%)
General Service	134,344	317,056,821	1,234,532	(\$19,058,286)	\$78,869,223	\$59,810,937	(\$19,058,286)	(24.2%)
Outdoor Lighting	97,930	7,625,729	n/a	(\$458,383)	\$3,164,547	\$2,706,165	(\$458,383)	(14.5%)
Total	1,047,553	840,651,142		(\$57,703,504)	\$225,462,278	\$167,758,775	(\$57,703,504)	(25.6%)

<sup>(</sup>B), (C), (D) Test year billing determinants in DE 21-030.

<sup>(</sup>E) Difference in proposed rate and current rate, times the billing determinants shown in Column (C).

<sup>(</sup>F) Based on current rates times billing determinants shown in Columns (B), (C) and (D).

<sup>(</sup>G) Sum of Columns (E) and (F)

<sup>(</sup>H) Column (G) minus Column (F)

<sup>(</sup>I) Column (H) divided by Column (F)

### Unitil Energy Systems, Inc. Typical Bill Impacts - March 1, 2022 vs. June 1, 2022 Due to Changes in the Default Service Charge Impact on D Rate Customers

Average kWh	Total Bill Using Rates 3/1/2022	Total Bill Using Rates 6/1/2022	Total Difference	% Total <u>Difference</u>
KVVII	3/1/2022	0/1/2022	Difference	Difference
125	\$47.76	\$38.51	(\$9.25)	(19.4%)
150	\$54.07	\$42.97	(\$11.10)	(20.5%)
200	\$66.69	\$51.89	(\$14.80)	(22.2%)
250	\$79.31	\$60.81	(\$18.50)	(23.3%)
300	\$91.93	\$69.72	(\$22.20)	(24.2%)
350	\$104.54	\$78.64	(\$25.90)	(24.8%)
400	\$117.16	\$87.56	(\$29.60)	(25.3%)
450	\$129.78	\$96.47	(\$33.30)	(25.7%)
500	\$142.40	\$105.39	(\$37.01)	(26.0%)
525	\$148.70	\$109.85	(\$38.86)	(26.1%)
550	\$155.01	\$114.31	(\$40.71)	(26.3%)
575	\$161.32	\$118.77	(\$42.56)	(26.4%)
600	\$167.63	\$123.22	(\$44.41)	(26.5%)
625	\$173.94	\$127.68	(\$46.26)	(26.6%)
650	\$180.25	\$132.14	(\$48.11)	(26.7%)
675	\$186.56	\$136.60	(\$49.96)	(26.8%)
700	\$192.87	\$141.06	(\$51.81)	(26.9%)
725	\$199.17	\$145.52	(\$53.66)	(26.9%)
750	\$205.48	\$149.98	(\$55.51)	(27.0%)
775	\$211.79	\$154.43	(\$57.36)	(27.1%)
825	\$224.41	\$163.35	(\$61.06)	(27.2%)
925	\$249.64	\$181.18	(\$68.46)	(27.4%)
1,000	\$268.57	\$194.56	(\$74.01)	(27.6%)
1,250	\$331.66	\$239.15	(\$92.51)	(27.9%)
1,500	\$394.75	\$283.73	(\$111.02)	(28.1%)
2,000	\$520.92	\$372.90	(\$148.02)	(28.4%)
3,500	\$899.45	\$640.41	(\$259.04)	(28.8%)
5,000	\$1,277.97	\$907.92	(\$370.05)	(29.0%)

	Rates - Effective March 1, 2022	Rates - Proposed June 1, 2022	Difference
Customer Charge	\$16.22	\$16.22	\$0.00
	kWh	kWh	kWh
Distribution Charge:	\$0.03942	\$0.03942	\$0.00000
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00047	\$0.00047	\$0.00000
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000
Default Service Charge	<u>\$0.17518</u>	<u>\$0.10117</u>	(\$0.07401)
TOTAL	\$0.25235	\$0.17834	(\$0.07401)

### Unitil Energy Systems, Inc. Typical Bill Impacts - March 1, 2022 vs. June 1, 2022 Due to Changes in the Default Service Charge Impact on G2 Rate Customers

Load <u>Factor</u>	Average Monthly <u>kW</u>	Average Monthly <u>kWh</u>	Total Bill Using Rates <u>3/1/2022</u>	Total Bill Using Rates <u>6/1/2022</u>	Total <u>Difference</u>	% Total <u>Difference</u>
20%	5	730	\$224.38	\$180.50	(\$43.88)	(19.6%)
20%	10	1,460	\$419.57	\$331.81	(\$87.76)	(20.9%)
20%	15	2,190	\$614.77	\$483.13	(\$131.64)	(21.4%)
20%	25	3,650	\$1,005.15	\$785.75	(\$219.40)	(21.8%)
20%	50	7,300	\$1,981.11	\$1,542.31	(\$438.80)	(22.1%)
20%	75	10,950	\$2,957.07	\$2,298.87	(\$658.20)	(22.3%)
20%	100	14,600	\$3,933.03	\$3,055.42	(\$877.61)	(22.3%)
20%	150	21,900	\$5,884.95	\$4,568.54	(\$1,316.41)	(22.4%)
20 /0	130	21,900	ψ3,004.93	ψ4,500.54	(\$1,510.41)	(22.470)
36%	5	1,314	\$338.50	\$259.51	(\$78.98)	(23.3%)
36%	10	2,628	\$647.80	\$489.83	(\$157.97)	(24.4%)
36%	15	3,942	\$957.11	\$720.15	(\$236.95)	(24.8%)
36%	25	6,570	\$1,575.72	\$1,180.80	(\$394.92)	(25.1%)
36%	50	13,140	\$3,122.25	\$2,332.40	(\$789.85)	(25.3%)
36%	75	19,710	\$4,668.77	\$3,484.01	(\$1,184.77)	(25.4%)
36%	100	26,280	\$6,215.30	\$4,635.61	(\$1,579.69)	(25.4%)
36%	150	39,420	\$9,308.36	\$6,938.82	(\$2,369.54)	(25.5%)
50%	5	1,825	\$438.35	\$328.64	(\$109.70)	(25.0%)
50%	10	3,650	\$847.50	\$628.10	(\$219.40)	(25.9%)
50%	15	5,475	\$1,256.66	\$927.55	(\$329.10)	(26.2%)
50%	25	9,125	\$2,074.97	\$1,526.46	(\$548.50)	(26.4%)
50%	50	18,250	\$4,120.74	\$3,023.73	,	(26.6%)
50%	75	27,375	\$6,166.52	\$4,521.00	(\$1,097.01) (\$1,645.51)	(26.7%)
50%	100	36,500	\$8,212.29	\$6,018.28	(\$1,645.51) (\$2,194.02)	(26.7%)
50%	150	54,750	\$12,303.84	\$9,012.82	(\$3,291.02)	(26.7%)
		Rates - Effective March 1, 2022	Rates - Proposed June 1, 2022	Difference		
ıstomer Ch	arge	\$29.19	\$29.19	\$0.00		
etribution C	harge	<u>All kW</u> \$10.51	<u>All kW</u> \$10.51	<u>All kW</u> \$0.00		
stribution C randed Cos	-	•	•	\$0.00 \$0.00		
TAL	st Ollarye	<u>\$0.00</u> <b>\$10.51</b>	<u>\$0.00</u> <b>\$10.51</b>	\$0.00 \$0.00		
stribution C	'harge	<u>kWh</u> \$0.00384	<u>kWh</u> \$0.00384	<u>kWh</u> \$0.00000		
	very Charge	\$0.00364 \$0.02978	\$0.00364 \$0.02978	\$0.00000		
randed Cos		(\$0.00002)	(\$0.00002)	\$0.00000		
	•	,	,	•		
	ery Adj. Factor fits Charge	\$0.00047 \$0.00752	\$0.00047 \$0.00752	\$0.00000		
	•	\$0.00752 \$0.15381	\$0.00752 \$0.00370	\$0.00000 (\$0.06011)		
fault Servi	ue Unarge	<u>\$0.15381</u>	<u>\$0.09370</u>	<u>(\$0.06011)</u>		
TAL		\$0.19540	\$0.13529	(\$0.06011)		

# Unitil Energy Systems, Inc. Typical Bill Impacts - March 1, 2022 vs. June 1, 2022 Due to Changes in the Default Service Charge Impact on G2 kWh Meter Rate Customers

Average Monthly <u>kWh</u>	Total Bill Using Rates <u>3/1/2022</u>	Total Bill Using Rates <u>6/1/2022</u>	Total <u>Difference</u>	% Total <u>Difference</u>
15	\$21.44	\$20.54	(\$0.90)	(4.2%)
75	\$33.70	\$29.19	(\$4.51)	(13.4%)
150	\$49.01	\$40.00	(\$9.02)	(18.4%)
250	\$69.44	\$54.41	(\$15.03)	(21.6%)
350	\$89.86	\$68.82	(\$21.04)	(23.4%)
450	\$110.28	\$83.23	(\$27.05)	(24.5%)
550	\$130.71	\$97.65	(\$33.06)	(25.3%)
650	\$151.13	\$112.06	(\$39.07)	(25.9%)
750	\$171.55	\$126.47	(\$45.08)	(26.3%)
900	\$202.19	\$148.09	(\$54.10)	(26.8%)

	Rates - Effective March 1, 2022	Rates - Proposed June 1, 2022	Difference
kWh Meter Customer Charge	\$18.38	\$18.38	\$0.00
	All kWh	<u>All kWh</u>	All kWh
Distribution Charge	\$0.01267	\$0.01267	\$0.00000
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00047	\$0.00047	\$0.00000
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000
Default Service Charge	<u>\$0.15381</u>	<u>\$0.09370</u>	(\$0.06011)
TOTAL	\$0.20423	\$0.14412	(\$0.06011)

# Unitil Energy Systems, Inc. Typical Bill Impacts - March 1, 2022 vs. June 1, 2022 Due to Changes in the Default Service Charge Impact on G2 QRWH and SH Rate Customers

Average <u>kWh</u>	Total Bill Using Rates <u>3/1/2022</u>	Total Bill Using Rates <u>6/1/2022</u>	Total <u>Difference</u>	% Total <u>Difference</u>
100	\$32.47	\$26.46	(\$6.01)	(18.5%)
200	\$55.22	\$43.20	(\$12.02)	(21.8%)
300	\$77.96	\$59.93	(\$18.03)	(23.1%)
400	\$100.71	\$76.66	(\$24.04)	(23.9%)
500	\$123.45	\$93.40	(\$30.06)	(24.3%)
750	\$180.31	\$135.23	(\$45.08)	(25.0%)
1,000	\$237.17	\$177.06	(\$60.11)	(25.3%)
1,500	\$350.89	\$260.73	(\$90.17)	(25.7%)
2,000	\$464.61	\$344.39	(\$120.22)	(25.9%)
2,500	\$578.33	\$428.06	(\$150.28)	(26.0%)

	Rates - Effective March 1, 2022	Rates - Proposed June 1, 2022	Difference
Customer Charge	\$9.73	\$9.73	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	All kWh
Distribution Charge	\$0.03588	\$0.03588	\$0.00000
External Delivery Charge	\$0.02978	\$0.02978	\$0.00000
Stranded Cost Charge	(\$0.00002)	(\$0.00002)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00047	\$0.00047	\$0.00000
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000
Default Service Charge	<u>\$0.15381</u>	<u>\$0.09370</u>	<u>(\$0.06011)</u>
TOTAL	\$0.22744	\$0.1673 <b>3</b>	(\$0.06011)

		Due		the Default Ser L Rate Custom					
	Nominal		<b></b>	Average	Total Bill Using Rates	Total Bill Using Rates	Total	% Total	
	Watts Mercury Vapor:	<u>Lumens</u>	Type	Monthly kWh	3/1/2022	6/1/2022	<u>Difference</u>	<u>Difference</u>	
1	100	3,500	ST	43	\$21.68	\$19.10	(\$2.58)	(11.9%)	
2	175	7,000	ST	71	\$29.62	\$25.36	(\$4.27)	(14.4%)	
3 4	250 400	11,000 20,000	ST ST	100 157	\$37.39 \$51.93	\$31.38 \$42.49	(\$6.01) (\$9.44)	(16.1%) (18.2%)	
5	1,000	60,000	ST	372	\$114.88	\$92.52	(\$22.36)	(19.5%)	
6	250	11,000	FL	100	\$38.56	\$32.55	(\$6.01)	(15.6%)	
7 8	400	20,000	FL	157 380	\$53.43	\$43.99	(\$9.44)	(17.7%) (20.4%)	
9	1,000 100	60,000 3,500	FL PB	380 48	\$111.95 \$22.79	\$89.11 \$19.90	(\$22.84) (\$2.89)	(20.4%)	
10	175	7,000	PB	71	\$28.74	\$24.48	(\$4.27)	(14.8%)	
	High Pressure So	ndium:							
11	50	4,000	ST	23	\$18.01	\$16.63	(\$1.38)	(7.7%)	
12	100	9,500	ST	48	\$24.60	\$21.71	(\$2.89)	(11.7%)	
13	150	16,000	ST	65	\$27.98	\$24.07	(\$3.91)	(14.0%)	
14 15	250 400	30,000 50,000	ST ST	102 161	\$39.07 \$55.59	\$32.94 \$45.91	(\$6.13) (\$9.68)	(15.7%) (17.4%)	
16	1,000	140,000	ST	380	\$115.91	\$93.07	(\$22.84)	(19.7%)	
17	150	16,000	FL	65	\$30.31	\$26.40	(\$3.91)	(12.9%)	
18	250	30,000	FL	102	\$40.69	\$34.56	(\$6.13)	(15.1%)	
19 20	400 1,000	50,000 140,000	FL FL	161 380	\$55.04 \$116.28	\$45.36 \$93.44	(\$9.68) (\$22.84)	(17.6%) (19.6%)	
21	50	4,000	PB	23	\$17.00	\$15.62	(\$22.84)	(8.1%)	
22	100	95,000	PB	48	\$23.42	\$20.53	(\$2.89)	(12.3%)	
	Metal Halide:								
23	175	8,800	ST	74	\$34.37	\$29.92	(\$4.45)	(12.9%)	
24	250	13,500	ST	102	\$41.58	\$35.45	(\$6.13)	(14.7%)	
25 26	400	23,500	ST	158 74	\$53.32 \$37.46	\$43.83 \$33.01	(\$9.50) (\$4.45)	(17.8%)	
26 27	175 250	8,800 13,500	FL FL	74 102	\$37.46 \$44.76	\$33.01 \$38.63	(\$4.45) (\$6.13)	(11.9%) (13.7%)	
28	400	23,500	FL	158	\$55.75	\$46.26	(\$9.50)	(17.0%)	
29	1,000	86,000	FL	374	\$105.30	\$82.82	(\$22.48)	(21.3%)	
30	175	8,800	PB	74	\$33.09	\$28.64	(\$4.45)	(13.4%)	
31 32	250 400	13,500 23,500	PB PB	102 158	\$39.74 \$52.04	\$33.61 \$42.55	(\$6.13) (\$9.50)	(15.4%) (18.2%)	
02			1.5	100	<b>402.0</b> .	ψ12.00	(\$0.00)	(10.270)	
33	Light Emitting Did 42	3,600	AL	15	\$16.09	\$15.19	(\$0.90)	(5.6%)	
34	57	5,200	AL	20	\$17.12	\$15.92	(\$1.20)	(7.0%)	
35	25	3,000	CH	9	\$14.87	\$14.33	(\$0.54)	(3.6%)	
36	88	8,300	CH	30	\$19.16	\$17.36	(\$1.80)	(9.4%)	
37	108	11,500	CH	37	\$20.59	\$18.37	(\$2.22)	(10.8%)	
38 39	193 123	21,000 12,180	CH FL	67 43	\$26.71 \$21.81	\$22.68 \$19.23	(\$4.03) (\$2.58)	(15.1%) (11.8%)	
40	194	25,700	FL	67	\$26.71	\$22.68	(\$4.03)	(15.1%)	
41	297	38,100	FL	103	\$34.06	\$27.86	(\$6.19)	(18.2%)	
		1	-ll Ob	- FV B					
ates - Effective March 1, 2	022	Mercury Vapo		s For Year Rou Sodium Vap		Metal Halid	e Rate/Mo.	LED Rat	e/Mo.
ustomer Charge	\$0.00		1 \$13.28	11		23	\$19.91	33	\$13.16
ustomer onlarge	ψ0.00		2 \$15.75	12		24	\$21.65	34	\$13.2
	All kWh		3 \$17.85	13		25	\$22.45	35	\$13.1
istribution Charge	\$0.00384		4 \$21.25	14		26	\$23.00	36	\$13.30
xternal Delivery Charge	\$0.02978		5 \$42.19	15	\$24.13	27	\$24.83	37	\$13.3
tranded Cost Charge	(\$0.00002)		6 \$19.02	16		28	\$24.88	38	\$13.6
			7 \$22.75	17		29	\$32.22	39	\$13.4
	\$0.00047				\$20.76	30	\$18.63	40	\$13.6
ystem Benefits Charge	\$0.00752		8 \$37.70	18			010.01	41	\$13.9
ystem Benefits Charge			9 \$13.41	19	\$23.58	31	\$19.81 \$21.17		
ystem Benefits Charge efault Service Charge	\$0.00752 <u>\$0.15381</u>			19 20	\$23.58 \$42.03		\$19.81 \$21.17		
ystem Benefits Charge efault Service Charge	\$0.00752		9 \$13.41	19	\$23.58 \$42.03 \$12.51	31	004.47		
ystem Benefits Charge efault Service Charge OTAL	\$0.00752 \$0.15381 \$0.19540	Mercury Vapo	9 \$13.41 10 \$14.87	19 20 21	\$23.58 \$42.03 \$12.51 \$14.04	31	\$21.17	LED Rat	
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20	\$0.00752 <u>\$0.15381</u> <b>\$0.19540</b>	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo.	19 20 21 22	\$23.58 \$42.03 \$12.51 \$14.04 por Rate/Mo.	31 32 Metal Halid	\$21.17 e Rate/Mo.	LED Rat	e/Mo.
torm Recovery Adj. Factor ystem Benefits Charge lefault Service Charge OTAL lates - Proposed June 1, 20 sustomer Charge	\$0.00752 \$0.15381 \$0.19540	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo.	19 20 21 22 Sodium Vap	\$23.58 \$42.03 \$12.51 \$14.04 <b>bor Rate/Mo.</b> \$13.52	31 32	\$21.17		<b>e/Mo.</b> \$13.10
ystem Benefits Charge lefault Service Charge  OTAL  lates - Proposed June 1, 20  ustomer Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85	19 20 21 22 Sodium Vap 11 12 13	\$23.58 \$42.03 \$12.51 \$14.04 <b>bor Rate/Mo.</b> \$13.52 \$15.22 \$15.28	31 32 <u>Metal Halid</u> 23 24 25	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45	LED Rat 33 34 35	<b>e/Mo.</b> \$13.1( \$13.2 \$13.1
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20  ustomer Charge  istribution Charge	\$0.00752 \$0.15381 \$0.19540 0022 \$0.00 All kWh \$0.00384	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25	19 20 21 22 Sodium Vap 11 12 13 14	\$23.58 \$42.03 \$12.51 \$14.04 <b>DOT Rate/MO.</b> \$13.52 \$15.22 \$15.28 \$19.14	31 32 Metal Halid 23 24 25 26	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00	LED Rat 33 34 35 36	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20 ustomer Charge istribution Charge xternal Delivery Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.00384 \$0.02978	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19	19 20 21 22 <b>Sodium Vap</b> 11 12 13 14	\$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$13.52 \$15.22 \$15.28 \$19.14 \$24.13	31 32 Metal Halid 23 24 25 26 27	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83	LED Rat 33 34 35 36 37	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3 \$13.3
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20  ustomer Charge  istribution Charge  xternal Delivery Charge  tranded Cost Charge	\$0.00752 \$0.15381 \$0.19540 2022 \$0.00 All kWh \$0.00384 \$0.00384 \$0.02978 (\$0.00002)	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02	19 20 21 22 <b>Sodium Vap</b> 11 12 13 14 15	\$23.58 \$42.03 \$12.51 \$14.04 \$13.52 \$15.22 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66	31 32 Metal Halid 23 24 25 26 27 28	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88	LED Rat 33 34 35 36 37 38	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3 \$13.3 \$13.6
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20 ustomer Charge istribution Charge xternal Delivery Charge tranded Cost Charge torm Recovery Adj. Factor	\$0.00752 \$0.15381 \$0.19540 0022 \$0.00 All kWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75	19 20 21 22 Sodium Vap 11 12 13 14 15 16	\$23.58 \$42.03 \$12.51 \$14.04 <b>oor Rate/Mo.</b> \$13.52 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61	31 32 Metal Halid 23 24 25 26 27 28 29	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88 \$32.22	LED Rat 33 34 35 36 37 38 39	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3 \$13.3 \$13.6 \$13.4
ystem Benefits Charge lefault Service Charge  OTAL lates - Proposed June 1, 20	\$0.00752 \$0.15381 \$0.19540 2022 \$0.00 All kWh \$0.00384 \$0.00384 \$0.02978 (\$0.00002)	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02	19 20 21 22 <b>Sodium Vap</b> 11 12 13 14 15	\$23.58 \$42.03 \$12.51 \$14.04 <b>oor Rate/Mo.</b> \$13.52 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76	31 32 Metal Halid 23 24 25 26 27 28	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88	LED Rat 33 34 35 36 37 38	e/Mo. \$13.11 \$13.2 \$13.11 \$13.31 \$13.36 \$13.4 \$13.62
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20 ustomer Charge istribution Charge xternal Delivery Charge tranded Cost Charge tranded Cost Charge torn Recovery Adj. Factor ystem Benefits Charge efault Service Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047 \$0.00752 \$0.09370	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70	19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20	\$23.58 \$42.03 \$12.51 \$14.04 or Rate/Mo. \$13.52 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76 \$23.58 \$42.03	31 32 Metal Halid 23 24 25 26 27 28 29 30	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88 \$32.22 \$18.63	LED Rat 33 34 35 36 37 38 39 40	
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20 ustomer Charge istribution Charge xternal Delivery Charge tranded Cost Charge torm Recovery Adj. Factor ystem Benefits Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All KWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047 \$0.00752	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41	19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20 21	\$23.58 \$42.03 \$12.51 \$14.04 <b>bor Rate/Mo.</b> \$13.52 \$15.22 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$20.76 \$23.58 \$42.03 \$12.51	31 32 Metal Halid 23 24 25 26 27 28 29 30 31	\$21.17 e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88 \$32.22 \$18.63 \$19.81	LED Rat 33 34 35 36 37 38 39 40	e/Mo. \$13.11 \$13.2 \$13.11 \$13.31 \$13.36 \$13.4 \$13.62
ystem Benefits Charge efault Service Charge  DTAL  ates - Proposed June 1, 20  ustomer Charge  istribution Charge kternal Delivery Charge tranded Cost Charge torm Recovery Adj. Factor ystem Benefits Charge efault Service Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047 \$0.00752 \$0.09370		9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87	19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20 21 21	\$23.58 \$42.03 \$12.51 \$14.04 <b>oor Rate/Mo.</b> \$13.52 \$15.22 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04	31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$21.17  e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88 \$32.22 \$18.63 \$19.81 \$21.17	33 34 35 36 37 38 39 40 41	e/Mo. \$13.1( \$13.2 \$13.1: \$13.3( \$13.6( \$13.6( \$13.6( \$13.6( \$13.6(
ystem Benefits Charge efault Service Charge  DTAL  ates - Proposed June 1, 20  ustomer Charge  istribution Charge kternal Delivery Charge tranded Cost Charge tranded Cost Charge torm Recovery Adj. Factor ystem Benefits Charge efault Service Charge  DTAL  ifference	\$0.00752 \$0.15381 \$0.19540 0022 \$0.000 All kWh \$0.00384 \$0.009278 (\$0.00002) \$0.00047 \$0.000752 \$0.09370 \$0.13529	Mercury Vapo	9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87	19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20 21 22 Sodium Vap Sodium	\$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$13.52 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo.	31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$21.17  8 Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.83 \$24.88 \$32.22 \$18.63 \$19.81 \$21.17	LED Rat 33 34 35 36 37 38 39 40 41	e/Mo. \$13.11 \$13.2 \$13.1 \$13.3 \$13.3 \$13.4 \$13.6 \$13.9
ystem Benefits Charge efault Service Charge  DTAL  ates - Proposed June 1, 20  ustomer Charge  stribution Charge ternal Delivery Charge randed Cost Charge orm Recovery Adj. Factor ystem Benefits Charge efault Service Charge  DTAL  Ifference	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047 \$0.00752 \$0.09370		9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$0.00	19 20 21 22 Sodium Vap 20 11 1 12 13 14 15 16 17 18 19 20 21 22 Sodium Vap 11 1	\$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$13.52 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$0.00	31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23	\$21.17  B Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.83 \$32.22 \$18.63 \$19.81 \$21.17  B Rate/Mo. \$0.00	LED Rat  33 34 35 36 37 38 39 40 41  LED Rat	e/Mo. \$13.11 \$13.2 \$13.1 \$13.3 \$13.6 \$13.4 \$13.6 \$13.9 \$13.9
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20  ustomer Charge  istribution Charge  xternal Delivery Charge  tranded Cost Charge  tranded Cost Charge  tranded Cost Charge  system Benefits Charge  efault Service Charge	\$0.00752 \$0.15381 \$0.19540 2022 \$0.00 All kWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047 \$0.00752 \$0.09370 \$0.13529		9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$0.00 2 \$0.00 2 \$0.00	19 20 21 22 Sodium Vap 11 15 16 17 18 19 20 21 22 Sodium Vap 11 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$23.58 \$42.03 \$12.51 \$14.04 <b>bor Rate/Mo.</b> \$13.52 \$15.22 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04 <b>bor Rate/Mo.</b> \$0.00 \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32  Metal Halid 23 32	\$21.17  e Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.88 \$32.22 \$18.63 \$19.81 \$21.17  e Rate/Mo. \$0.00 \$0.00	LED Rat  33 34 35 36 37 38 39 40 41  LED Rat 33 34	e/Mo. \$13.11 \$13.2 \$13.11 \$13.3 \$13.3 \$13.6 \$13.6 \$13.9 \$13.9
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20  ustomer Charge istribution Charge xternal Delivery Charge tranded Cost Charge torm Recovery Adj. Factor ystem Benefits Charge efault Service Charge  OTAL  ifference  ustomer Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.02978 (\$0.0002) \$0.00047 \$0.00752 \$0.09370 \$0.13529		9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00	19 20 21 22 Sodium Vap 11 12 20 21 22 21 22 22 Sodium Vap 20 21 22 22 Sodium Vap 11 12 13 13	\$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$13.52 \$15.22 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$0.00 \$0.00 \$0.00	31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25	\$21.17  8 Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.83 \$24.88 \$32.22 \$18.63 \$19.81 \$21.17  8 Rate/Mo. \$0.00 \$0.00 \$0.00	LED Rat  33 34 35 36 37 38 39 40 41  LED Rat  33 34 35	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3 \$13.3 \$13.6 \$13.4 \$13.6 \$13.9
ystem Benefits Charge efault Service Charge  OTAL  ates - Proposed June 1, 20 ustomer Charge istribution Charge sternal Delivery Charge tranded Cost Charge tranded Cost Charge tranded Cost Charge tranded Service Charge  OTAL  ifference ustomer Charge ustomer Charge istribution Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.00384 \$0.02978 (\$0.00002) \$0.00047 \$0.00752 \$0.09370 \$0.13529		9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00	19 20 21 22 Sodium Vap 20 11 12 2 2 2 2 2 2 2 2 2 2 2 2 3 3 14 12 13 14 15 15 16 16 17 18 18 19 20 21 21 13 14 14 15 16 17 17 18 18 19 19 20 21 21 21 31 31 14	\$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$13.52 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$17.61 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04 oor Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00	Metal Halid  23 24 25 26 27 28 29 30 31 32  Metal Halid 23 24 25 26 27 28 29 30 31 32	\$21.17  8 Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.83 \$32.22 \$18.63 \$19.81 \$21.17  8 Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00	LED Rat  33 34 35 36 37 38 39 40 41  LED Rat  33 34 35 36	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3 \$13.6 \$13.4 \$13.6 \$13.9 e/Mo. \$0.00 \$0.00 \$0.00 \$0.00
efault Service Charge efault Service Charge  DTAL  ates - Proposed June 1, 20  ustomer Charge  stribution Charge dernal Delivery Charge randed Cost Charge orm Recovery Adj. Factor /stem Benefits Charge efault Service Charge  DTAL  ifference  ustomer Charge  stribution Charge dernal Delivery Charge  eternal Delivery Charge	\$0.00752 \$0.15381 \$0.19540 022 \$0.00 All kWh \$0.02978 (\$0.0002) \$0.00047 \$0.00752 \$0.09370 \$0.13529		9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$13.28 2 \$15.75 3 \$17.85 4 \$21.25 5 \$42.19 6 \$19.02 7 \$22.75 8 \$37.70 9 \$13.41 10 \$14.87 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00	19 20 21 22 Sodium Vap 11 12 20 21 22 21 22 22 Sodium Vap 20 21 22 22 Sodium Vap 11 12 13 13	\$23.58 \$42.03 \$12.51 \$14.04 <b>oor Rate/Mo.</b> \$13.52 \$15.22 \$15.22 \$15.22 \$15.28 \$19.14 \$24.13 \$41.66 \$20.76 \$23.58 \$42.03 \$12.51 \$14.04 <b>oor Rate/Mo.</b> \$0.00 \$0.00 \$0.00 \$0.00	31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25	\$21.17  8 Rate/Mo. \$19.91 \$21.65 \$22.45 \$23.00 \$24.83 \$24.83 \$24.88 \$32.22 \$18.63 \$19.81 \$21.17  8 Rate/Mo. \$0.00 \$0.00 \$0.00	LED Rat  33 34 35 36 37 38 39 40 41  LED Rat  33 34 35	e/Mo. \$13.1 \$13.2 \$13.1 \$13.3 \$13.3 \$13.6 \$13.4 \$13.9 e/Mo. \$0.00 \$0.00
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# Unitil Energy Systems, Inc. Typical Bill Impacts by Rate Component

### Residential Rate D 650 kWh Bill

	6/1/2021	6/1/2022					%
							Difference to
Rate Components	<u>Prior Rate</u>	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03942	\$0.03942	\$0.00000	\$25.62	\$25.62	\$0.00	0.0%
External Delivery Charge	\$0.03613	\$0.02978	(\$0.00635)	\$23.48	\$19.36	(\$4.13)	(3.5%)
Stranded Cost Charge	(\$0.00025)	(\$0.00002)	\$0.00023	(\$0.16)	(\$0.01)	\$0.15	0.1%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.31	\$0.31	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$4.89	\$4.89	\$0.00	0.0%
Default Service Charge	\$0.07091	\$0.10117	\$0.03026	\$46.09	<u>\$65.76</u>	\$19.67	<u>16.9%</u>
Total kWh Charges	\$0.15420	\$0.17834	\$0.02414		<del></del>	·	
Total Bi	ill			\$116.45	\$132.14	\$15.69	13.5%

	Regular Gener	al G2 Demand,	11 kW, 2,800 k	Wh Typical Bill			
	6/1/2021	6/1/2022					% Difference to
Rate Components	Prior Rate	As Revised	Difference	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$29.19	\$29.19	\$0.00	\$29.19	\$29.19	\$0.00	0.0%
	All kW	All kW					
Distribution Charge	\$10.51	\$10.51	\$0.00	\$115.61	\$115.61	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.05)</u>	<u>\$0.00</u>	<u>\$0.05</u>	<u>(\$0.55)</u>	<u>\$0.00</u>	<u>\$0.55</u>	<u>0.1%</u>
Total kW Charges	\$10.46	\$10.51	\$0.05	\$115.06	\$115.61	\$0.55	0.1%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00384	\$0.00384	\$0.00000	\$10.75	\$10.75	\$0.00	0.0%
External Delivery Charge	\$0.03613	\$0.02978	(\$0.00635)	\$101.16	\$83.38	(\$17.78)	(4.0%)
Stranded Cost Charge	(\$0.00005)	(\$0.00002)	\$0.00003	(\$0.14)	(\$0.06)	\$0.08	0.0%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$1.32	\$1.32	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$21.06	\$21.06	\$0.00	0.0%
Default Service Charge	\$0.05992	\$0.09370	\$0.03378	\$167.78	\$262.36	\$94.58	21.2%
Total kWh Charges	otal kWh Charges \$0.10783		\$0.02746	\$301.92	\$378.81	\$76.89	17.2%
Total Bi	II			\$446.17	\$523.61	\$77.44	17.4%

# Unitil Energy Systems, Inc. Typical Bill Impacts by Rate Component

Regular General	G2 Quick Reco	very Water He	ating and Spac	e Heating 1,66	0 kWh Typical Bill	_	
	6/1/2021	6/1/2022					% Difference to
Rate Components	Prior Rate	As Revised	Difference	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$9.73	\$9.73	\$0.00	\$9.73	\$9.73	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03588	\$0.03588	\$0.00000	\$59.56	\$59.56	\$0.00	0.0%
External Delivery Charge	\$0.03613	\$0.02978	(\$0.00635)	\$59.98	\$49.43	(\$10.54)	(4.4%)
Stranded Cost Charge	(\$0.00025)	(\$0.00002)	\$0.00023	(\$0.42)	(\$0.03)	\$0.38	0.2%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.78	\$0.78	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$12.48	\$12.48	\$0.00	0.0%
Default Service Charge	\$0.05992	\$0.09370	\$0.03378	\$99.47	<u>\$155.54</u>	<u>\$56.07</u>	23.2%
Total kWh Charges	\$0.13967	\$0.16733	\$0.02766	\$231.85	\$277.77	\$45.92	19.0%
Total Bill				\$241.58	\$287.50	\$45.92	19.0%

	Regular Ge	eneral G2 kWh	Meter 115 kWh	Typical Bill			
	6/1/2021	6/1/2022					%
Rate Components	Prior Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Difference to <u>Total Bill</u>
Customer Charge	\$18.38	\$18.38	\$0.00	\$18.38	\$18.38	\$0.00	0.0%
	<u>\$/kWh</u>	\$/kWh					
Distribution Charge	\$0.01267	\$0.01267	\$0.00000	\$1.46	\$1.46	\$0.00	0.0%
External Delivery Charge	\$0.03613	\$0.02978	(\$0.00635)	\$4.15	\$3.42	(\$0.73)	(2.3%)
Stranded Cost Charge	(\$0.00025)	(\$0.00002)	\$0.00023	(\$0.03)	(\$0.00)	\$0.03	0.1%
Storm Recovery Adj.	\$0.00047	\$0.00047	\$0.00000	\$0.05	\$0.05	\$0.00	0.0%
System Benefits Charge	\$0.00752	\$0.00752	\$0.00000	\$0.86	\$0.86	\$0.00	0.0%
Default Service Charge	\$0.05992	\$0.09370	\$0.03378	<u>\$6.89</u>	<u>\$10.78</u>	<u>\$3.88</u>	12.2%
Total kWh Charges	\$0.11646	\$0.14412	\$0.02766	\$13.39	\$16.57	\$3.18	10.0%
Total Bil	l			\$31.77	\$34.95	\$3.18	10.0%

NHPUC Docket No. DE 22-017 Testimony of Daniel T. Nawazelski Exhibit DTN-1

UNITIL ENERGY SYSTEMS, INC.

DIRECT TESTIMONY OF DANIEL T. NAWAZELSKI

New Hampshire Public Utilities Commission Docket No. DE 22-017

NHPUC Docket No. DE 22-017 Testimony of Daniel T. Nawazelski Exhibit DTN-1

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## LIST OF SCHEDULES

Schedule DTN-1: Unitil Energy Systems, Inc. 2021 Default Service and Renewable Energy Credits Lead Lag Study

Schedule DTN-2: Confidential/Redacted Workpapers for the Unitil Energy Systems, Inc.
2021 Default Service and Renewable Energy Credits Lead Lag Study

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1	I.	INTRODUCTION
2	Q.	Please state your name and business address.
3	A.	Daniel T. Nawazelski, 6 Liberty Lane West, Hampton, New Hampshire 03842
4	Q.	What is your position and what are your responsibilities?
5	A.	I am the Manager of Revenue Requirements for Unitil Service Corp., a
6		subsidiary of Unitil Corporation that provides managerial, financial,
7		regulatory and engineering services to Unitil Corporation's principal
8		subsidiaries: Fitchburg Gas and Electric Light Company, Granite State Gas
9		Transmission, Inc., Northern Utilities, Inc., and Unitil Energy Systems, Inc.
10		("UES" or the "Company"). In this capacity I am responsible for the
11		preparation and presentation of distribution rate cases and in support of other
12		various regulatory proceedings.
13	Q.	Please describe your educational and professional background.
14	A.	I began working for Unitil Service in June of 2012 as an Associate Financial
15		Analyst, progressing to the role of Manager of Revenue Requirements in
16		2021. I earned a Bachelor of Science degree in Business with a concentration
17		in Finance and Operations Management from the University of Massachusetts,
18		Amherst in May of 2012. I am also currently pursuing my Masters in Business

# 20 II. PURPOSE OF TESTIMONY

19

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

Administration at the University of New Hampshire.

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tudy"), which is integral to the recovered in Default Service rates for G1
recovered in Default Service rates for G1
' 2021 Default Service ("DS") and
d Lag Study. The 2021 Study, presented
upon data for the period January 1,
culates the net lead period for G1
eriod for Non-G1 customers to be 1.88
led in the DS rates proposed in this
rive supply-related working capital
erive supply-related working capital 1, 2022, as described in the testimony
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1		days between the time funds are required to pay for DS purchased power and
2		REC purchases (expense lead) and the time that those funds are available from the
3		payment of customer bills (revenue lag). The revenue lag period includes four
4		calculations: "receipt of electric service to meter reading", "meter reading to
5		recording of accounts receivable", "billing to collection", and "collection to
6		receipt of available funds". The expense lead period consists of the lead in
7		payment of DS purchased power costs and REC costs based upon the following
8		calculations: lead period, average days lead, weighted cost, days lead and
9		weighted days lead. Each of these steps is explained in more detail below. UES
10		based its 2021 Study upon data for the twelve months ended December 31, 2021,
11		and calculated net lead lag days separately for the G1 and Non-G1 customer
12		classes.
13	Q.	Does the 2021 Study incorporate the requirements of the Lead Lag
14		Settlement Letter dated July 16, 2009, under docket DE 09-009?
15	A.	Yes, the 2021 Study conforms to the requirements specified in the Settlement
16		Letter under Docket No. DE 09-009. The 2021 Study follows the same
17		methodology as used in the 2009 - 2020 Studies which conform to the
18		requirements of the Settlement.
19	V.	2021 STUDY RESULTS
20	Q.	Please define the terms "lag days" and "lead days."
21	A.	Lag days are the number of days between delivery of electric service by UES to
22		its customers and the receipt by the Company of available funds from customers'

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I		payments (revenue lag). Lead days are the number of days between the mid-point
2		of the energy delivery period to UES and the payment date by UES to DS
3		suppliers or for RECs (expense lead).
4	Q.	How is revenue lag computed?
5	A.	Revenue lag is computed in days, consisting of four time components: (1) days
6		from receipt of electric service to meter reading; (2) days from meter reading to
7		recording of accounts receivable; (3) days from billing to collection; and (4) days
8		from collection to receipt of available funds. The sum of the days associated with
9		these four lag components is the total revenue lag. The calculations are
10		performed separately for G1 and Non-G1 customer classes, as appropriate. Refer
11		to Schedule DTN-1, pages 4 through 19 of 23.
12	Q.	What is the lag period for the component "receipt of electric service to meter
12	ζ.	
13	Ž.	reading" in the 2021 Study?
	A.	
13		reading" in the 2021 Study?
13 14		reading" in the 2021 Study?  The 2021 average lag for "receipt of electric service to meter reading" is 15.21
<ul><li>13</li><li>14</li><li>15</li></ul>		reading" in the 2021 Study?  The 2021 average lag for "receipt of electric service to meter reading" is 15.21 days. This lag was obtained by dividing the number of days in the test year (365)
13 14 15 16		reading" in the 2021 Study?  The 2021 average lag for "receipt of electric service to meter reading" is 15.21 days. This lag was obtained by dividing the number of days in the test year (365 days) by 24 to determine the average monthly service period. This result is
13 14 15 16 17		reading" in the 2021 Study?  The 2021 average lag for "receipt of electric service to meter reading" is 15.21 days. This lag was obtained by dividing the number of days in the test year (365 days) by 24 to determine the average monthly service period. This result is applicable to both the G1 and Non-G1 customer classes. See Schedule DTN-1,
13 14 15 16 17 18	A.	reading" in the 2021 Study?  The 2021 average lag for "receipt of electric service to meter reading" is 15.21 days. This lag was obtained by dividing the number of days in the test year (365 days) by 24 to determine the average monthly service period. This result is applicable to both the G1 and Non-G1 customer classes. See Schedule DTN-1, page 5 of 23.
13 14 15 16 17 18	A.	reading" in the 2021 Study?  The 2021 average lag for "receipt of electric service to meter reading" is 15.21 days. This lag was obtained by dividing the number of days in the test year (365 days) by 24 to determine the average monthly service period. This result is applicable to both the G1 and Non-G1 customer classes. See Schedule DTN-1, page 5 of 23.  What is the lag period for the component "meter reading to recording of

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1		lag determines the time required to process the meter reading data and record
2		accounts receivable. See Schedule DTN-1, pages 6 through 10 of 23.
3	Q.	What is the lag period for the component "billing to collection?"
4	A.	The 2021 average "billing to collection" lag is 25.38 days for G1 customers and
5		40.41 days for Non-G1 customers. This component was calculated separately for
6		the G1 and Non-G1 customer groups and is derived by the accounts receivable
7		turnover method. The lag reflects the time delay between the mailing of customer
8		bills and the receipt of the billed revenues from customers. See Schedule DTN-1,
9		pages 11 and 12 of 23 for G1 and Non-G1 results, respectively.
10	Q.	What is the lag period for the component "collection to receipt of available
11		funds?"
12	A.	The 2021 average "collection to receipt of available funds" lag is 1.65 days. This
13		represents the average weighted check-float period, or the lag that takes place
14		during the period from when payment is received from customers to the time such
15		funds are available for use by the Company. This result is applicable to both the
16		G1 and Non-G1 customer classes. See Schedule DTN-1, pages 13 through 19 of
17		23.
18	Q.	Is the total revenue lag computed from these separate lag calculations?
19	A.	Yes. The total revenue lag of 43.25 days for G1 customers and 58.28 days for
20		Non-G1 customers is computed by adding the number of days associated with
21		each of the four revenue lag components described above. This total number of
22		lag days represents the amount of time between the recorded delivery of service to

NHPUC Docket No. DE 22-017 Testimony of Daniel T. Nawazelski Exhibit DTN-1 Page 6 of 9

1		customers and the receipt of the related revenues from customers. See Schedule
2		DTN-1, page 4, line 6.
3	Q.	Please turn to the lead periods in the 2021 Study. In determining the expense
4		lead period, how is the weighted days lead in payment of DS purchased
5		power costs determined?
6	A.	First, the monthly expense lead for each DS power supply vendor is determined
7		by aggregating (1) the average days in the period that the energy or service is
8		received and (2) the additional billing period including the payment day.
9		
10		The aggregate lead days are then weighted by the dollar amount of the billings.
11		Weighted days lead are calculated separately for G1 and Non-G1 customers, by
12		supplier, and are shown in the Confidential Workpapers to the 2021 Study,
13		Schedule DTN-2.
14		
15		As of March 21, 2022, prior period adjustments made in 2022 related to 2021
16		were included in the calculation. Prior year adjustments made in 2021 that relate
17		to 2020 were not included in the calculation.
18	Q.	How is the weighted days lead in payment for RECs determined?
19	A.	The weighted days lead in payment for RECs was determined using the same
20		methodology applicable to DS power suppliers described above. In applying this
21		methodology to 2021 RECs, three assumptions were made to reflect actual
22		payment activity towards the Company's 2021 REC commitment. First, the

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1		monthly cost of the RECs was assumed to be equivalent to the estimated costs of
2		RECs included in rates in 2021. Second, actual payment activity as of March 21,
3		2022 towards the Company's 2021 REC commitment was applied in
4		chronological order to the earliest month's estimated cost. Third, a payment date
5		of July 1, 2022 was used for all remaining 2021 REC commitments, which is the
6		last day to obtain 2021 RECs and/or make alternative compliance payments. See
7		Schedule DTN-1, page 21 of 23 for the REC summary related to G1 customers
8		and page 23 of 23 for the REC summary related to Non-G1 customers.
9	Q.	What are the combined weighted days lead in payment of DS purchased
10		power costs and RECs for G1 and Non-G1 customers?
11	A.	The weighted days lead for G1 customers is 61.60 days, as shown on Schedule
12		DTN-1, page 20 of 23. The weighted days lead for Non-G1 customers is 60.16
13		days, as shown on Schedule DTN-1, page 22 of 23.
14	Q.	How is the total DS and REC lead lag determined?
15	A.	For G1 customers, the DS and REC expense lead of 61.60 days is subtracted from
16		the lag in receipt of revenue of 43.25 days to produce the total DS and REC net
17		lead of 18.35 days. For Non-G1 customers, the DS and REC expense lead of
18		60.16 days is subtracted from the lag in receipt of revenue of 58.28 days to
19		produce the total DS and REC net lead of 1.88 days. See Schedule DTN-1, page
20		4 of 23.
21	Q.	How do the results of the 2021 Study compare to the 2020 Study for G1
22		customers?

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1	A.	For G1 customers, the net lead in the 2021 Study of 18.35 days represents a
2		decrease of 4.97 days from the net lead in the 2020 Study of 23.33 days. The
3		difference was driven by a decrease in total DS and REC expense lead of 3.62
4		days as well as an overall revenue lag increase of 1.35 days.
5		
6		The revenue lag component, "billing to collection" in the 2021 Study is 25.38
7		days compared to 23.95 days in the 2020 Study, an increase of 1.43 days. All of
8		the other components in revenue lag net to a total decrease of 0.08 days in the
9		2021 Study compared to the 2020 Study. The combined change in all of the
10		revenue lag components resulted in an overall revenue lag increase of 1.35 days.
11		
12		The DS and REC expense lead is 61.60 days in the 2021 Study compared to 65.22
13		days in the 2020 Study, a decrease of 3.62 days. In 2021, the DS portion of the
14		expense lead decreased 1.01 weighted days which was driven by a decrease in the
15		average days lead. The REC portion of the expense lead decreased 2.61 weighted
16		days which was primarily driven by a decrease in the REC portion of total costs
17		compared to the prior year.
18	Q.	How do the results of the 2021 Study compare to the 2020 Study for Non-G1
19		customers?
20	A.	For Non-G1 customers, the net lead in the 2021 Study of 1.88 days is 1.39 days
21		more lead than the net lag in the 2020 Study of 0.50 days. The increase in net lag

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1		is attributable to a 1.70 day decrease in revenue lag offset by a 0.31 day decrease
2		in the DS and REC expense lead.
3		
4		The revenue lag component, "billing to collection" in the 2021 Study is 40.41
5		days compared to 42.03 days in the 2020 Study, a decrease of 1.62 days. All
6		other revenue lag components decreased by of 0.08 days in the 2021 Study
7		compared to the 2020 Study. The net effect of all of the changes in the revenue
8		lag components resulted in a 1.70 day decrease in the 2021 revenue lag compared
9		to 2020.
10		
11		The DS and REC expense lead is 0.31 days lower in 2021 compared to 2020. In
12		2021, the DS portion of the expense lead decreased 1.16 weighted days which
13		was driven by a decrease the average days lead as well as a decrease in the DS
14		portion of total costs. The REC portion of the expense lead increased 0.85
15		weighted days which was driven by an increase in the average days lead.
16	VI.	CONCLUSION
17	Q.	Does this conclude your testimony?
18	A.	Yes, it does.

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UNITIL ENERGY SYSTEMS, INC.

# DEFAULT SERVICE AND RENEWABLE ENERGY CREDITS

LEAD/LAG STUDY

FOR G1 AND NON-G1 CUSTOMERS

2021

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# Unitil Energy Systems, Inc. Default Service Costs and Renewable Energy Credits Lead / Lag Study For the Period January 1, 2021 Through December 31, 2021 Summary of Results

The results of the Unitil Energy Systems, Inc. Default Service ("DS") and Renewable Energy Credits ("RECs") Lead / Lag Study ("Study") indicate a net lead period for DS and REC costs of 18.35 days for G1 Customers and a net lead period of 1.88 days for Non-G1 Customers. The procedures used to develop the Study are as follows:

#### I. Determination of Revenue Lag Period

The revenue lag period includes four calculations in determining the total lag – receipt of electric service to meter reading, meter reading to recording of accounts receivable, billing to collection, and collection to receipt of available funds.

#### A. Receipt of Electric Service to Meter Reading

There are 365 days in the test year January through December 2021, including one 28 day month, four 30 day months, and seven 31 day months. The weighted average day delay is 15.21 days between the time a customer receives service until the meter is read. See page 5 of this Study.

## B. Meter Reading to Recording of Accounts Receivable

The average delay time from meter reading to recording of accounts receivable is 1.01 days. See pages 6 - 10 of this Study.

#### C. Billing to Collection

Billing to Collection lag days are determined by dividing accounts receivable sales by daily electric revenues. The daily average revenues are obtained from the monthly electric sales revenues divided by the number of days in the month. This weighted average delay period from Billing to Collection is 25.38 days for G1 customers and 40.41 days for Non-G1 customers. See pages 11 and 12 of this Study.

#### D. Collection to Receipt of Available Funds

On average, 1.65 days are required for checks deposited at the Company's banks to be considered available funds for banking transaction purposes. See pages 13 - 19 of this Study.

The sum of all revenue lag periods is 43.25 days for G1 customers and 58.28 days for Non-G1 customers. See page 4 of this Study.

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Unitil Energy Systems, Inc.

Default Service Costs and Renewable Energy Credits Lead / Lag Study
For the Period January 1, 2021 Through December 31, 2021

Summary of Results

#### II. Determination of the Expense Lead Period

The expense lead period consists of the lead in payment of DS supplier costs and RECs, and is calculated for the G1 and Non-G1 customer classes based upon the following calculations: lead period, average days lead, weighted cost, days lead and weighted days lead.

#### A. Lead Period

The lead period is generally based on a montly cycle and consists of (1) the average days in the period that DS purchases were provided or RECs were required; and (2) the billing period from the end of the period up to and including the payment date. See pages 20 through 23 of the Study.

#### B. Average Days Lead

The bills for each G-1 and Non-G-1 DS supplier are analyzed to determine the days lead. The REC days lead are also analyzed. Average days lead is calculated by multiplying the lead period by the weighted percentage of aggregate costs. The weighted days are then totaled to obtain the average days lead period for DS suppliers and for the RECs. See pages 20 and 22 of this Study.

#### C. Weighted Cost

The cost of purchasing default service and RECs is divided by the total combined costs to determine a weighted cost. See pages 20 and 22 of this Study.

#### D. Weighted Days Lead

The weighted cost is multiplied by the average days lead to calculate the weighted days lead, resulting in 61.60 days for G1 customers and 60.16 days for Non-G1 customers. See pages 20 and 22 of this Study.

#### III. Summary

The results of the Study indicate a net Purchased Power lead period of 18.35 days for G1 customers and net lead period of 1.88 days for Non-G1 customers. See page 4 of this Study.

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# Unitil Energy Systems, Inc. Number of Days Delay Between Receipt of Revenue and Payment of Default Service Costs and Renewable Energy Credits Based on 2021 Data

		G1 Customers		Non-G1 (	Customers
Line		Page	Number of	Page	Number of
No.	Descripton	Reference	Days Delay	Reference	Days Delay
1	Revenue Lag:				
2	Receipt of Electric Service to Meter Reading	5	15.21 days	5	15.21 days
3	Meter Reading to Recording of Accounts Receivable	6 - 10	1.01 days	6 - 10	1.01 days
4	Billing to Collection	11	25.38 days	12	40.41 days
5	Collection to Receipt of Available Funds	13 - 19	1.65 days	13 - 19	1.65 days
6	Subtotal Revenue Lag Days		43.25 days		58.28 days
7	Less: Lead in Payment of Default Service Costs and Renewable Energy Credits	20	61.60 days	22	60.16 days
	0,				
8	Total Default Service and Renewable Energy Credit Lag (Line 6 Less Line 7)		-18.35 days		-1.88 days

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# Receipt of Electric Service to Meter Reading Average Days Delay

January 1, 2021 to December 31, 2021 Number of Days

January	31
February	28
March	31
April	30
May	31
June	30
July	31
August	31
September	30
October	31
November	30
December	31

1 28 Day Month	1*29	28
4 30 Day Months	4*30	120
7 31 Day Months	7*31	217
	Total	365 days

365 Days / 12 Months / 2 = 15.21 days

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# Unitil Energy Systems, Inc Meter Reading to Recording of Accounts Receivable

Month	Average Days
January 2021	1.01
February 2021	1.00
March 2021	1.01
April 2021	1.00
May 2021	1.01
June 2021	1.01
July 2021	1.01
August 2021	1.01
September 2021	1.01
October 2021	1.01
November 2021	1.01
December 2021	1.03
•	
Average	1.01

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# Unitil Energy Systems, Inc. Meter Reading to Recording of Accounts Receivable Monthly Detail

# January 2021

5 .		Percent of	, ,	Weighted
Days Lag	Meters	Meters	Multiplier	Days Lag
1	76,103	99.56%	1	1.00
2	292	0.38%	2	0.01
3	22	0.03%	3	0.00
4	4	0.01%	4	0.00
5	1	0.00%	5	0.00
6	1	0.00%	6	0.00
7	1	0.00%	7	0.00
8-14	12	0.02%	11	0.00
Over 14		0.00%	14	-
Total	76,436	100.00%		1.01

## February 2021

	Number of	Percent of	Days Lag	Weighted
Days Lag	Meters	Meters	Multiplier	Days Lag
1	76,218	99.64%	1	1.00
2	256	0.33%	2	0.01
3	13	0.02%	3	0.00
4	2	0.00%	4	0.00
5	1	0.00%	5	0.00
6	3	0.00%	6	0.00
7	-	0.00%	7	-
8 to 14	3	0.00%	11	0.00
Over 14	-	0.00%	14	-
Total	76,496	100.00%	·	1.00

#### March 2021

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	75,844	99.13%	1	0.99
2	575	0.75%	2	0.02
3	67	0.09%	3	0.00
4	16	0.02%	4	0.00
5	-	0.00%	5	-
6	3	0.00%	6	0.00
7	1	0.00%	7	0.00
8 to 14	5	0.01%	11	0.00
Over 14		0.00%	14	-
Total	76,511	100.00%	_	1.01

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# Unitil Energy Systems, Inc. Meter Reading to Recording of Accounts Receivable Monthly Detail

## April 2021

	Number of	Percent of	Days Lag	Wtd Days
Days Lag	Meters	Meters	Multiplier	Lag
1	76,438	99.62%	1	1.00
2	253	0.33%	2	0.01
3	25	0.03%	3	0.00
4	6	0.01%	4	0.00
5	1	0.00%	5	0.00
6	1	0.00%	6	0.00
7	1	0.00%	7	0.00
8 to 14	3	0.00%	11	0.00
Over 14		0.00%	14	-
Total	76,728	100.00%	·	1.00

## May 2021

	Number of	Percent of	Days Lag	Wtd Days
Days Lag	Meters	Meters	Multiplier	Lag
1	76,284	99.58%	1	1.00
2	164	0.21%	2	0.00
3	104	0.14%	3	0.00
4	30	0.04%	4	0.00
5	11	0.01%	5	0.00
6	12	0.02%	6	0.00
7	1	0.00%	7	0.00
8 to 14	1	0.00%	11	0.00
Over 14	-	0.00%	14	-
Total	76,607	100.00%	·	1.01

### June 2021

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	76,091	99.49%	1	0.99
2	162	0.21%	2	0.00
3	104	0.14%	3	0.00
4	53	0.07%	4	0.00
5	28	0.04%	5	0.00
6	9	0.01%	6	0.00
7	5	0.01%	7	0.00
8 to 14	30	0.04%	11	0.00
Over 14	1	0.00%	14	0.00
Total	76,483	100.00%	_	1.01

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# Unitil Energy Systems, Inc. Meter Reading to Recording of Accounts Receivable Monthly Detail

# July 2021

	Number of	Percent of	Days Lag	Wtd Days
Days Lag	Meters	Meters	Multiplier	Lag
1	76,233	99.33%	1	0.99
2	355	0.46%	2	0.01
3	78	0.10%	3	0.00
4	26	0.03%	4	0.00
5	24	0.03%	5	0.00
6	3	0.00%	6	0.00
7	6	0.01%	7	0.00
8 to 14	23	0.03%	11	0.00
Over 14		0.00%	14	-
Total	76,748	100.00%	-	1.01

# August 2021

	Number of	Percent of	Days Lag	Wtd Days
Days Lag	Meters	Meters	Multiplier	Lag
1	76,132	99.37%	1	0.99
2	304	0.40%	2	0.01
3	56	0.07%	3	0.00
4	39	0.05%	4	0.00
5	32	0.04%	5	0.00
6	26	0.03%	6	0.00
7	3	0.00%	7	0.00
8 to 14	17	0.02%	11	0.00
Over 14	2	0.00%	14	0.00
Total	76,611	100.00%		1.01

# September 2021

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	76,496	99.55%	1	1.00
2	105	0.14%	2	0.00
3	69	0.09%	3	0.00
4	72	0.09%	4	0.00
5	59	0.08%	5	0.00
6	10	0.01%	6	0.00
7	15	0.02%	7	0.00
8 to 14	17	0.02%	11	0.00
Over 14		0.00%	14	-
Total	76,843	100.00%	_	1.01

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# Unitil Energy Systems, Inc. Meter Reading to Recording of Accounts Receivable Monthly Detail

## October 2021

	Number of	Percent of	Days Lag	Wtd Days
Days Lag	Meters	Meters	Multiplier	Lag
1	76,233	99.38%	1	0.99
2	369	0.48%	2	0.01
3	28	0.04%	3	0.00
4	26	0.03%	4	0.00
5	6	0.01%	5	0.00
6	17	0.02%	6	0.00
7	6	0.01%	7	0.00
8 to 14	22	0.03%	11	0.00
Over 14		0.00%	14	-
Total	76,707	100.00%	-	1.01

## November 2021

	Number of	Percent of	Days Lag	Wtd Days
Days Lag	Meters	Meters	Multiplier	Lag
1	76,229	99.54%	1	1.00
2	152	0.20%	2	0.00
3	116	0.15%	3	0.00
4	25	0.03%	4	0.00
5	28	0.04%	5	0.00
6	5	0.01%	6	0.00
7	7	0.01%	7	0.00
8 to 14	13	0.02%	11	0.00
Over 14	7	0.01%	14	0.00
Total	76,582	100.00%		1.01

## December 2021

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	74,523	97.12%	1	0.97
2	2,054	2.68%	2	0.05
3	99	0.13%	3	0.00
4	29	0	4	0.00
5	10	0.01%	5	0.00
6	7	0.01%	6	0.00
7	1	0.00%	7	0.00
8 to 14	11	0.01%	11	0.00
Over 14		0.00%	14	0.00
Total	76,734	100.00%	_	1.03

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# Unitil Energy Systems, Inc. Number Of Days Lag In Billing To Collection Twelve Months Average 1/21 - 12/21 G1 Customers

		O i Gaotoino		
Month	Days in Month	Electric Sales Revenues	Daily Average (1/Days)	Accounts Receivable Electric Sales
		(1)	(2)	(3)
2021				
January	31	2,505,326	80,817	2,135,143
February	28	2,676,283	95,582	2,432,438
March	31	2,882,679	92,990	2,284,635
April	30	2,592,249	86,408	1,995,459
May	31	2,552,675	82,344	2,087,255
June	30	2,915,413	97,180	2,359,392
July	31	3,099,422	99,981	2,625,224
August	31	3,089,108	99,649	2,455,615
September	30	3,096,836	103,228	3,288,955
October	31	2,749,723	88,701	2,155,249
Novemeber	30	2,582,945	86,098	1,986,794
December	31	2,733,806	88,187	2,144,283
Total		33,476,466	1,101,165	27,950,442
Average		2,789,705	91,764	2,329,204
Pay	ment Lag Day	rs (3/2)		25.38

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#### Unitil Energy Systems, Inc. Number Of Days Lag In Billing To Collection Twelve Months Average 1/21 - 12/21 Non-G1 Customers Electric Accounts Days in Sales Daily Average Receivable Month Revenues (1/Days) **Electric Sales** Month (1) (2) (3) 2021 454,959 January 31 14,103,732 18,259,961 February 28 14,033,394 501,193 19,440,185 March 31 14,202,250 458,137 18,612,540 April 30 11,388,433 379,614 16,136,097 31 May 364,481 16,205,730 11,298,912 June 30 13,092,792 436,426 17,461,598 July 31 14,119,978 455,483 18,687,100 August 31 13,915,921 448,901 18,342,769 September 30 13,303,374 443,446 16,549,287 14,769,903 October 31 10,408,995 335,774 Novemeber 30 10,243,040 341,435 13,612,861 14,976,865 December 31 483,125 18,133,778 206,211,808 \$ 155,087,686 5,102,974 Total Average \$ 12,923,974 425,248 \$ 17,184,317 Payment Lag Days (3/2) 40.41

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# Unitil Energy Systems, Inc. Collection to Receipt of Available Funds

#### Revenue Classification by Bank

Revenue is deposited into the remittance account on the day that the revenue is recorded as received. The following day, the bank statement reflects the prior day's bank availability of funds.

Total Lag Days from Receipt of Funds to Notification of Availability of Funds

1.00 day

# Availability of Funds as reported on suceeding business day. Source: Report on Previous Day Data, Citizens Bank

	Percent of Funds			We	ighted Lag D	ays		
2021	Available Same Day 0 Days Lag	1 Day Float 1 Day Lag	2-Day Float 2 Days Lag		Total	1 Day	2 Days	Total
January	32%	63%		5%	100%	0.63	0.10	0.73
February	42%	54%		4%	100%	0.54	0.08	0.62
March	38%	57%		4%	100%	0.57	0.09	0.66
April	38%	58%		4%	100%	0.58	0.07	0.65
May	41%	55%		4%	100%	0.55	0.08	0.63
June	39%	57%		3%	100%	0.57	0.07	0.64
July	39%	56%		5%	100%	0.56	0.09	0.65
August	42%	55%		4%	100%	0.55	0.07	0.62
September	40%	56%		4%	100%	0.56	0.07	0.63
October	43%	54%		4%	100%	0.54	0.07	0.61
November	35%	60%		5%	100%	0.60	0.09	0.69
December	38%	58%		4%	100%	0.58	0.07	0.65

Average Weighted Lag Days for Availability of Funds

0.65 days

## Summary

Total Lag Days from Receipt of Funds to Notification of Availability of Funds Average Weighted Lag Days for Availability of Funds

1.00 day 0.65 days

Total Lag Days from Collection to Availability of Funds:

1.65 days

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	Available	1 Day	2 Day	Total Available
January, 2021	Balance	Float	Float	+ Float
4	201,978	556,040	33,167	
5	425,366	262,691	14,407	
6	287,542	309,417	13,747	
7	8,402	207,748	11,135	
8	104,304	233,413	13,032	
11	232,324	648,251	80,996	
12	12,939	212,248	12,135	
13	17,476	216,748	13,135	
14	20,742	151,263	22,987	
15	72,558	138,641	23,454	
19	20,095	747,759	44,536	
20	622,239	34,856	30,575	
21	(4,171)	368,303	18,753	
22	86,894	103,432	8,483	
25	322,037	584,790	16,690	
26	223,847	174,198	5,216	
27	74,020	359,830	20,418	
28	10,278	155,468	61,308	
29	322,037	584,790	16,690	
	3,060,905	6,049,886	460,864	9,571,655
% of Available Funds	32%	63%	5%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.63	0.10	0.73

	Available	1 Day	2 Day	Total Available
February, 2021	Balance	Float	Float	+ Float
1	229,739	462,100	19,804	
2	25,720	91,052	10,905	
3	13,933	161,662	8,851	
4	401,739	425,750	9,719	
5	105,407	178,751	14,851	
8	308,970	673,675	73,897	
9	504,786	149,478	72,889	
10	154,714	455,977	13,860	
11	72,565	107,920	6,476	
12	100,199	154,604	5,879	
16	59,069	433,383	18,856	
17	953,431	128,623	3,986	
18	29,684	258,827	10,437	
19	105,392	123,060	4,185	
22	277,507	444,116	11,658	
23	394,932	106,718	8,434	
24	30,513	294,036	6,807	
25	19,813	126,086	38,165	
26	101,153	174,571	11,635	
	3,889,265	4,950,389	351,294	9,190,948
% of Available Funds	42%	54%	4%	100%
Float Days	0	1	2	10070
Weighted Float Days		0.54	0.08	0.62
5				

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	Available	1 Day	2 Day	Total Available
March, 2021	Balance	Float	Float	+ Float
1	53,109	723,658	20,743	
2	217,950	145,660	18,468	
3	28,594	391,440	19,804	
4	175,171	266,529	31,733	
5	133,403	195,427	12,313	
8	393,928	1,103,549	43,124	
9	586,598	129,206	30,344	
10	161,258	470,813	58,434	
11	(32,097)	127,017	42,386	
12	81,200	171,015	23,066	
15	321,510	460,485	16,546	
16	597,841	57,743	11,646	
17	259,345	146,572	7,157	
18	9,751	64,919	3,128	
19	94,459	60,121	1,741	
22	190,554	481,945	12,932	
23	552,876	18,288	2,598	
24	139,969	339,343	4,672	
25	49,107	107,820	7,933	
26	70,993	118,572	6,059	
29	144,424	437,663	45,455	
30	(18,310)	62,952	25,577	
31	5,578	265,236	29,375	
	4,217,213	6,345,973	475,234	11,038,420
% of Available Funds	38%	57%	4%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.57	0.09	0.66
,				

	Available	1 Day	2 Day	Total Available
April, 2021	Balance	Float	Float	+ Float
1	16,696	205,664	38,731	
2	109,202	225,732	8,064	
5	164,178	736,207	55,921	
6	342,474	120,749	44,034	
7	372,554	413,142	19,770	
8	17,256	221,919	16,046	
9	71,626	209,678	9,824	
12	336,640	556,456	12,074	
13	588,146	328,946	9,443	
14	238,338	321,286	26,855	
15	(13,942)	140,212	29,754	
16	56,696	416,781	2,465	
19	56,696	416,781	2,465	
20	84,434	149,078	5,298	
21	796,852	201,805	6,105	
22	18,568	68,663	10,373	
23	62,538	66,606	10,387	
26	337,282	299,586	15,003	
27	217,557	192,983	18,314	
28	20,939	420,460	18,657	
29	8,370	146,730	9,039	
30	85,921	169,992	15,428	
	3,989,020	6,029,456	384,050	10,402,526
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% of Available Funds	38%	58%	4%	100%
Float Days	0	1	2	0.05
Weighted Float Days		0.58	0.07	0.65

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	Available	1 Day	2 Day	Total Available
May, 2021	Balance	Float	Float	+ Float
3	94,477	454,555	17,346	
4	33,710	222,269	9,064	
5	40,438	311,990	13,974	
6	292,159	346,125	15,208	
7	86,662	152,092	10,290	
10	409,315	637,305	65,923	
11	424,777	159,549	52,775	
12	164,699	337,043	24,752	
13	(8,721)	136,037	4,603	
14	124,830	103,634	8,042	
17	156,168	399,390	11,747	
18	704,642	175,631	3,497	
19	196,769	297,223	9,812	
20	9,660	87,327	28,269	
21	53,112	94,603	7,163	
24	250,296	391,988	8,926	
25	358,180	23,494	6,457	
26	18,406	178,721	4,113	
27	15,982	115,138	22,894	
28	77,696	126,264	25,043	
	3,503,257	4,750,378	349,898	8,603,533
% of Available Funds	41%	55%	4%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.55	80.0	0.63

	Available	1 Day	2 Day	Total Available
June, 2021	Balance	Float	Float	+ Float
1	163,355	350,499	48,794	
2	12,111	208,817	28,390	
3	(5,845)	156,486	2,030	
4	129,554	460,412	10,256	
7	198,734	701,290	17,629	
8	470,781	33,301	32,388	
9	143,897	216,408	32,800	
10	5,491	198,242	6,896	
11	83,660	137,033	8,797	
14	249,377	800,887	15,791	
15	610,236	188,704	15,648	
16	200,018	141,606	20,110	
17	(6,999)	123,521	10,292	
18	105,981	74,824	3,194	
21	247,819	479,159	16,355	
22	419,717	69,291	8,471	
23	159,424	89,859	1,839	
24	11,434	76,163	2,662	
25	87,716	75,400	2,948	
28	156,944	363,118	10,798	
29	88,050	19,350	4,829	
30	26,741	192,860	3,575	
	3,558,196	5,157,230	304,492	9,019,918
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% of Available Funds	39%	57%	3%	100%
Float Days	0	1	2	0.21
Weighted Float Days		0.57	0.07	0.64

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	Available	1 Day	2 Day	Total Available
July, 2021	Balance	Float	Float	+ Float
1	14,986	119,338	21,648	
2	121,367	361,570	16,692	
6	79,161	551,907	24,546	
7	511,728	110,739	13,112	
8	49,259	413,656	31,157	
9	66,658	316,897	22,351	
12	281,816	663,704	41,426	
13	557,014	96,932	73,894	
14	86,410	482,495	76,493	
15	(30,144)	223,660	5,451	
16	70,385	262,193	4,016	
19	310,396	516,722	18,655	
20	757,303	70,024	22,151	
21	174,447	150,314	2,728	
22	15,442	60,627	2,703	
23	84,909	50,003	2,559	
26	315,490	195,721	18,689	
27	188,864	42,021	17,448	
28	10,142	397,160	11,429	
29	9,356	165,173	4,306	
30	106,438	199,372	4,055	
Total	3,781,425	5,450,228	435,509	9,667,162
% of Available Funds	39%	56%	5%	100%
Float Days	0	1	2	
Weighted Float Days		0.56	0.09	0.65

	Available	1 Day	2 Day	Total Available
August, 2021	Balance	Float	Float	+ Float
2	99,978	508,919	28,656	
3	(10,885)	57,757	12,555	
4	36,859	262,509	10,654	
5	18,152	198,901	16,690	
6	248,351	401,839	13,085	
9	568,096	878,295	66,034	
10	591,337	49,092	54,901	
11	204,940	404,089	23,625	
12	149	186,751	8,689	
13	139,375	240,199	11,309	
16	320,951	752,477	37,141	
17	781,920	78,500	18,269	
18	293,221	328,694	3,364	
19	56,620	76,625	9,079	
20	78,377	79,780	15,629	
23	209,176	341,243	7,966	
24	484,932	159,284	5,614	
25	133,968	200,833	9,472	
26	5,786	50,061	8,950	
27	52,625	69,006	2,431	
30	166,343	289,130	7,286	
31	8,501	245,082	6,825	
Total	4,488,771	5,859,066	378,224	10,726,061
% of Available Funds	42%	55%	4%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.55	0.07	0.62

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September, 2021         Balance         Float         Float         + Float           1         51,117         268,088         10,773           2         19,980         231,135         11,321           3         138,663         245,381         21,839           7         92,809         912,944         40,786           8         800,459         206,946         30,595           9         67,236         318,740         23,574           10         78,630         285,808         22,926           13         436,380         717,682         44,657           14         250,049         396,310         50,049           15         648,864         255,598         19,218           16         (41,924)         114,888         39,447           17         71,115         121,755         2,145           20         441,317         420,952         8,490           21         704,061         349,307         13,331           22         211,081         85,865         4,084           23         18,836         83,025         9,325           24         78,884         121,448         4,433     <		Available	1 Day	2 Day	Total Available
2     19,980     231,135     11,321       3     138,663     245,381     21,839       7     92,809     912,944     40,786       8     800,459     206,946     30,595       9     67,236     318,740     23,574       10     78,630     285,808     22,926       13     436,380     717,682     44,657       14     250,049     396,310     50,049       15     648,864     255,598     19,218       16     (41,924)     114,888     39,447       17     71,115     121,755     2,145       20     441,317     420,952     8,490       21     704,061     349,307     13,331       22     211,081     85,865     4,084       23     18,836     83,025     9,325       24     78,884     121,448     4,433       27     150,101     332,961     11,034       28     118,090     253,358     6,824       29     27,621     177,756     14,920       30     4,676     149,602     6,633       4,368,044     6,049,549     396,404     10,813,997       % of Available Funds     40%     56%     4%     10	September, 2021	Balance	Float	Float	+ Float
3     138,663     245,381     21,839       7     92,809     912,944     40,786       8     800,459     206,946     30,595       9     67,236     318,740     23,574       10     78,630     285,808     22,926       13     436,380     717,682     44,657       14     250,049     396,310     50,049       15     648,864     255,598     19,218       16     (41,924)     114,888     39,447       17     71,115     121,755     2,145       20     441,317     420,952     8,490       21     704,061     349,307     13,331       22     211,081     85,865     4,084       23     18,836     83,025     9,325       24     78,884     121,448     4,433       27     150,101     332,961     11,034       28     118,090     253,358     6,824       29     27,621     177,756     14,920       30     4,676     149,602     6,633       4,368,044     6,049,549     396,404     10,813,997       % of Available Funds     40%     56%     4%     100%       Float Days     0     1     2	1	51,117	268,088	10,773	
7         92,809         912,944         40,786           8         800,459         206,946         30,595           9         67,236         318,740         23,574           10         78,630         285,808         22,926           13         436,380         717,682         44,657           14         250,049         396,310         50,049           15         648,864         255,598         19,218           16         (41,924)         114,888         39,447           17         71,115         121,755         2,145           20         441,317         420,952         8,490           21         704,061         349,307         13,331           22         211,081         85,865         4,084           23         18,836         83,025         9,325           24         78,884         121,448         4,433           27         150,101         332,961         11,034           28         118,090         253,358         6,824           29         27,621         177,756         14,920           30         4,676         149,602         6,633           4,368,044	2	19,980	231,135	11,321	
8 800,459 206,946 30,595 9 67,236 318,740 23,574 10 78,630 285,808 22,926 13 436,380 717,682 44,657 14 250,049 396,310 50,049 15 648,864 255,598 19,218 16 (41,924) 114,888 39,447 17 71,115 121,755 2,145 20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  **Notation of Available Funds Float Days  **Of Available Funds Float D	3	138,663	245,381	21,839	
9 67,236 318,740 23,574 10 78,630 285,808 22,926 13 436,380 717,682 44,657 14 250,049 396,310 50,049 15 648,864 255,598 19,218 16 (41,924) 114,888 39,447 17 71,115 121,755 2,145 20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  % of Available Funds Float Days 0 1 2	7	92,809	912,944	40,786	
10 78,630 285,808 22,926 13 436,380 717,682 44,657 14 250,049 396,310 50,049 15 648,864 255,598 19,218 16 (41,924) 114,888 39,447 17 71,115 121,755 2,145 20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 1777,756 14,920 30 4,676 149,602 6,633  **Mod Available Funds Funds 40% 56% 4% 100% Float Days 0 1 2	8	800,459	206,946	30,595	
13     436,380     717,682     44,657       14     250,049     396,310     50,049       15     648,864     255,598     19,218       16     (41,924)     114,888     39,447       17     71,115     121,755     2,145       20     441,317     420,952     8,490       21     704,061     349,307     13,331       22     211,081     85,865     4,084       23     18,836     83,025     9,325       24     78,884     121,448     4,433       27     150,101     332,961     11,034       28     118,090     253,358     6,824       29     27,621     177,756     14,920       30     4,676     149,602     6,633       4,368,044     6,049,549     396,404     10,813,997       % of Available Funds     40%     56%     4%     100%       Float Days     0     1     2	9	67,236	318,740	23,574	
14 250,049 396,310 50,049 15 648,864 255,598 19,218 16 (41,924) 114,888 39,447 17 71,115 121,755 2,145 20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  **Total Company of the Com	10	78,630	285,808	22,926	
15 648,864 255,598 19,218 16 (41,924) 114,888 39,447 17 71,115 121,755 2,145 20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  % of Available Funds Float Days 0 1 2	13	436,380	717,682	44,657	
16     (41,924)     114,888     39,447       17     71,115     121,755     2,145       20     441,317     420,952     8,490       21     704,061     349,307     13,331       22     211,081     85,865     4,084       23     18,836     83,025     9,325       24     78,884     121,448     4,433       27     150,101     332,961     11,034       28     118,090     253,358     6,824       29     27,621     177,756     14,920       30     4,676     149,602     6,633       4,368,044     6,049,549     396,404     10,813,997       % of Available Funds Float Days     40%     56%     4%     100%	14	250,049	396,310	50,049	
17 71,115 121,755 2,145 20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  **Yes of Available Funds 40% 56% 4% 100% Float Days 0 1 2	15	648,864	255,598	19,218	
20 441,317 420,952 8,490 21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  **Yes of Available Funds Funds 40% 56% 4% 100% Float Days 0 1 2	16	(41,924)	114,888	39,447	
21 704,061 349,307 13,331 22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  4,368,044 6,049,549 396,404 10,813,997  % of Available Funds Float Days 0 1 2	17	71,115	121,755	2,145	
22 211,081 85,865 4,084 23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  **Total Annual State of State	20	441,317	420,952	8,490	
23 18,836 83,025 9,325 24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  **Mod Available Funds** 40% 56% 4% 100% Float Days** 0 1 2	21	704,061	349,307	13,331	
24 78,884 121,448 4,433 27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633 4,368,044 6,049,549 396,404 10,813,997 % of Available Funds 40% 56% 4% 100% Float Days 0 1 2	22	211,081	85,865	4,084	
27 150,101 332,961 11,034 28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633  4,368,044 6,049,549 396,404 10,813,997  % of Available Funds 40% 56% 4% 100% Float Days 0 1 2	23	18,836	83,025	9,325	
28 118,090 253,358 6,824 29 27,621 177,756 14,920 30 4,676 149,602 6,633 4,368,044 6,049,549 396,404 10,813,997 % of Available Funds 40% 56% 4% 100% Float Days 0 1 2	24	78,884	121,448	4,433	
29 27,621 177,756 14,920 30 4,676 149,602 6,633 4,368,044 6,049,549 396,404 10,813,997  % of Available Funds How Float Days 0 1 2	27	150,101	332,961	11,034	
30 4,676 149,602 6,633 4,368,044 6,049,549 396,404 10,813,997 % of Available Funds 40% 56% 4% 100% Float Days 0 1 2	28	118,090	253,358	6,824	
4,368,044         6,049,549         396,404         10,813,997           % of Available Funds Float Days         40%         56%         4%         100%           To a company         0         1         2	29	27,621	177,756	14,920	
% of Available Funds 40% 56% 4% 100% Float Days 0 1 2	30	4,676	149,602	6,633	
Float Days 0 1 2		4,368,044	6,049,549	396,404	10,813,997
·	% of Available Funds	40%	56%	4%	100%
	Float Days	0	1	2	
Weighted Float Days = 0.56 0.07 0.63	Weighted Float Days	-	0.56	0.07	0.63

	Available	1 Day	2 Day	Total Available
October, 2021	Balance	Float	Float	+ Float
1	127,267	176,895	34,161	
4	55,745	549,393	29,841	
5	249,102	217,815	12,954	
6	382,509	283,812	19,015	
7	17,805	202,708	18,261	
8	99,956	349,816	11,840	
12	46,169	303,550	27,345	
13	852,466	315,116	6,520	
14	105,168	528,579	28,970	
15	136,573	283,031	22,445	
18	138,088	441,196	6,610	
19	888,524	393,694	31,131	
20	116,863	254,380	36,020	
21	127,267	176,895	34,161	
22	83,626	81,889	8,683	
25	250,478	291,644	10,968	
26	446,088	112,369	3,845	
27	29,136	153,607	3,890	
28	13,196	93,475	4,165	
29	86,563	98,506	3,429	
	4,252,588	5,308,370	354,254	9,915,212
% of Available Funds	43%	54%	4%	100%
Float Days	0	1	2	13070
Weighted Float Days		0.54	0.07	0.61
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	Available	1 Day	2 Day	Total Available
November, 2021	Balance	Float	Float	+ Float
1	92,099	331,646	16,239	
2	5,365	95,065	13,032	
3	10,930	330,314	6,651	
4	197,819	363,459	31,193	
5	45,358	207,783	14,583	
8	320,412	653,017	26,592	
9	548,146	68,454	21,586	
10	182,417	346,051	9,720	
12	107,018	206,297	11,392	
15	248,005	411,556	25,079	
16	562,017	516,683	30,308	
17	320,545	162,049	37,587	
18	(27,926)	91,959	22,612	
19	180,398	317,942	15,543	
22	91,564	247,619	22,174	
23	92,099	331,646	16,239	
24	163,013	125,717	10,492	
26	91,570	234,925	25,962	
29	(596)	249,945	36,908	
30	(24,546)	141,370	16,633	
	3,205,708	5,433,497	410,525	9,049,730
% of Available Funds	35%	60%	5%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.60	0.09	0.69

	Available	1 Day	2 Day	Total Available
December, 2021	Balance	Float	Float	+ Float
1	158,416	272,814	7,854	
2	8,096	89,791	4,408	
3	98,486	179,089	3,582	
6	183,026	317,367	24,343	
7	309,666	270,839	20,300	
8	144,368	244,271	9,806	
9	18,996	217,618	8,401	
10	85,848	240,590	15,007	
13	185,570	596,079	5,652	
14	563,946	88,665	2,907	
15	235,146	168,582	19,204	
16	(19,809)	82,127	18,116	
17	65,513	153,251	22,597	
20	246,447	389,039	4,749	
21	340,174	72,363	3,703	
22	29,948	347,471	9,973	
23	14,798	117,781	85,439	
24	(47,071)	197,497	10,210	
27	123,722	137,365	8,043	
28	349,622	100,357	16,383	
29	72,259	212,695	5,647	
30	11,241	240,941	5,380	
31	65,737	168,233	4,793	
	3,244,147	4,904,825	316,497	8,465,469
% of Available Funds	38%	58%	4%	100%
Float Days	0	1	2	13070
Weighted Float Days		0.58	0.07	0.65
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# UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page		Cost	% of Total	Average Days Lead	Weighted Days Lead	
G1 Default Service Supplier Costs G1 Renewable Energy Credits	Schedule DTN-2 21	\$ \$	4,232,746 394,076	91.48% 8.52%	39.05 days 303.82 days	35.72 days 25.88 days	
Total		\$	4,626,822	100.00%		61.60 days	

#### **UNITIL ENERGY SYSTEMS, INC** LEAD IN PAYMENT OF RENEWABLE ENERGY CREDITS

G1							2021						
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL
RECs*													
Period Begin	1/1/2021	2/1/2021	3/1/2021	4/1/2021	5/1/2021	6/1/2021	7/1/2021	8/1/2021	9/1/2021	10/1/2021	11/1/2021	12/1/2021	
Period End	1/31/2021	2/28/2021	3/31/2021	4/30/2021	5/31/2021	6/30/2021	7/31/2021	8/31/2021	9/30/2021	10/31/2021	11/30/2021	12/31/2021	
\$ Amount	\$32,837	\$33,607	\$32,515	\$32,760	\$35,270	\$30,917	\$34,411	\$35,745	\$33,237	\$29,823	\$29,507	\$33,446	
REC Purchase Applied	(\$32,837)	(\$33,607)	(\$32,515)	(\$32,760)	(\$797)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Net \$ Amount	\$0	\$0	\$0	\$0	\$34,473	\$30,917	\$34,411	\$35,745	\$33,237	\$29,823	\$29,507	\$33,446	\$261,559
% to Total	0.00%	0.00%	0.00%	0.00%	8.75%	7.85%	8.73%	9.07%	8.43%	7.57%	7.49%	8.49%	66.37%
Payment Date**	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	
Lead Period	531.50	502.00	472.50	442.00	411.50	381.00	350.50	319.50	289.00	258.50	228.00	197.50	
Weighted Days	-	-	-	-	36.00	29.89	30.61	28.98	24.37	19.56	17.07	16.76	203.24 days
REC Purchases***													
Period Begin	1/1/2021	1/1/2021	1/1/2021	1/1/2021	1/1/2021	2/1/2021	3/1/2021	3/1/2021	3/1/2021	4/1/2021	4/1/2021	4/1/2021	
Period End	1/31/2021	1/31/2021	1/31/2021	1/31/2021	1/31/2021	2/28/2021	3/31/2021	3/31/2021	3/31/2021	4/30/2021	4/30/2021	4/30/2021	
\$ Amount	\$17,935	\$2,788	\$8,101	\$3,118	\$895	\$33,607	\$3,186	\$929	\$28,400	\$15,788	\$6,931	\$7,947	
% to Total	4.55%	0.71%	2.06%	0.79%	0.23%	8.53%	0.81%	0.24%	7.21%	4.01%	1.76%	2.02%	
Payment Date	7/21/2021	8/20/2021	10/22/2021	11/19/2021	1/19/2022	1/19/2022	1/19/2022	2/3/2022	2/4/2022	2/4/2022	2/18/2022	2/25/2022	
Lead Period	186.50	216.50	279.50	307.50	368.50	339.00	309.50	324.50	325.50	295.00	309.00	316.00	
Weighted Days	8.49	1.53	5.75	2.43	0.84	28.91	2.50	0.77	23.46	11.82	5.43	6.37	
REC Purchases***													
Period Begin	4/1/2021	5/1/2021											
Period End	4/30/2021	5/31/2021											
\$ Amount	\$2,095	\$797											\$132,517
% to Total	0.53%	0.20%											33.63%
Payment Date	2/28/2022	2/28/2022											
Lead Period	319.00	288.50											
Weighted Days	1.70	0.58											100.58 days
Total \$ Amount													\$394,076

Weighted Days 303.82 days

<sup>\*</sup> Estimated cost of RECs included in rates in 2021

<sup>\*\*</sup> The last day to acquire 2021 Renewable Energy Credits and/or make alternative compliance payments is July 1, 2022
\*\*\* Actual purchasing activity for 2021 RECs applied in chronological order to estimated cost of RECs included in rates in 2021

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# UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page	Cost	% of Total	Average Days Lead	Weighted Days Lead
Non-G1 Default Service Supplier Costs Non-G1 Renewable Energy Credits	Schedule DTN-2 23	\$ 51,049,870 \$ 5,019,262	91.05% 8.95%	35.76 days 308.33 days	32.56 days 27.60 days
Total		\$ 56,069,132	100.00%		60.16 days

#### **UNITIL ENERGY SYSTEMS, INC** LEAD IN PAYMENT OF RENEWABLE ENERGY CREDITS

NON-G1	2021												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL
RECs*													
Period Begin	1/1/2021	2/1/2021	3/1/2021	4/1/2021	5/1/2021	6/1/2021	7/1/2021	8/1/2021	9/1/2021	10/1/2021	11/1/2021	12/1/2021	
Period End	1/31/2021	2/28/2021	3/31/2021	4/30/2021	5/31/2021	6/30/2021	7/31/2021	8/31/2021	9/30/2021	10/31/2021	11/30/2021	12/31/2021	
\$ Amount	\$471,107	\$466,650	\$408,778	\$385,799	\$355,291	\$386,171	\$429,260	\$509,640	\$456,929	\$343,353	\$360,713	\$445,569	
REC Purchase Applied	(\$471,107)	(\$466,650)	(\$408,778)	(\$244,184)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Net \$ Amount	\$0	\$0	\$0	\$141,615	\$355,291	\$386,171	\$429,260	\$509,640	\$456,929	\$343,353	\$360,713	\$445,569	\$3,428,542
% to Total	0.00%	0.00%	0.00%	2.82%	7.08%	7.69%	8.55%	10.15%	9.10%	6.84%	7.19%	8.88%	68.31%
Payment Date**	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	7/1/2022	
Lead Period	531.50	502.00	472.50	442.00	411.50	381.00	350.50	319.50	289.00	258.50	228.00	197.50	
Weighted Days	-	-	-	12.47	29.13	29.31	29.98	32.44	26.31	17.68	16.39	17.53	211.24 days
REC Purchases***													_
Period Begin	1/1/2021	1/1/2021	1/1/2021	1/1/2021	1/1/2021	2/1/2021	2/1/2021	2/1/2021	3/1/2021	4/1/2021	4/1/2021	4/1/2021	
Period End	1/31/2021	1/31/2021	1/31/2021	1/31/2021	1/31/2021	2/28/2021	2/28/2021	2/28/2021	3/31/2021	4/30/2021	4/30/2021	4/30/2021	
\$ Amount	\$215,290	\$33,472	\$97,240	\$37,422	\$87,683	\$364,728	\$11,155	\$90,767	\$408,778	\$30,887	\$83,194		
% to Total	4.29%	0.67%	1.94%	0.75%	1.75%	7.27%	0.22%	1.81%	8.14%	0.62%	1.66%	1.90%	
Payment Date	7/21/2021	8/20/2021	10/22/2021	11/19/2021	1/19/2022	1/19/2022	2/3/2022	2/4/2022	2/4/2022	2/4/2022	2/18/2022	2/25/2022	
Lead Period	186.50	216.50	279.50	307.50	368.50	339.00	354.00	355.00	325.50	295.00	309.00	316.00	
Weighted Days	8.00	1.44	5.41	2.29	6.44	24.63	0.79	6.42	26.51	1.82	5.12	6.01	
REC Purchases***													
D : 1D :	4/4/0004												
Period Begin	4/1/2021												
Period End	4/30/2021												#4 F00 700
\$ Amount	\$34,709												\$1,590,720
% to Total	0.69%												31.69%
Payment Date	2/28/2022												
Lead Period	319.00												07.00 -1
Weighted Days	2.21	-											97.09 days
Total \$ Amount													\$5,019,262

Weighted Days 308.33 days

<sup>\*</sup> Estimated cost of RECs included in rates in 2021

<sup>\*\*</sup> The last day to acquire 2021 Renewable Energy Credits and/or make alternative compliance payments is July 1, 2022
\*\*\* Actual purchasing activity for 2021 RECs applied in chronological order to estimated cost of RECs included in rates in 2021

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UNITIL ENERGY SYSTEMS, INC.

# REDACTED WORKPAPERS

FOR THE

DEFAULT SERVICE AND RENEWABLE ENERGY CREDITS

LEAD/LAG STUDY

FOR G1 AND NON-G1 CUSTOMERS

2021

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## **REDACTED**

# UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page		Cost	% of Total	Average Days Lead	Weighted Days Lead
Summary Total G1 Default Service Supplier Costs G1 Renewable Energy Credits Total	Detail below Schedule DTN-1 p 21	\$ \$	4,232,746 394,076 4,626,822	91.48% 8.52% 100.00%	39.05 days 303.82 days _	35.72 days 25.88 days 61.60 days
Detail for G1 Default Service Supplier Costs Supplier A Supplier B Total G1 Default Service Supplier Costs	3 4	\$ \$	407,050 3,825,696 4,232,746	9.62% 90.38% 100.00%		39.05 days

#### REDACTED

#### UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF ELECTRIC COSTS

#### DS SERVICE POWER SUPPLY CONTRACTS

						MONTH ENE	RGY PURCHAS	ES DELIVERED	1				
G1							2021						
SUPPLIERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier A													
Normal Service													
Period Begin												12/1/2021	
Period End												12/31/2021	
\$ Amount												\$ 407,050	\$ 407,050
% to Total												100.00%	100.009
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustme	ents												
shown in billing perio	od in 2021)												
Period Begin	,												
Period End													
\$ Amount													\$ -
% to Total													0.009
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ -	\$	- \$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$ -	\$	- \$	- \$ 407,050	\$ 407,050

Weighted Days

#### REDACTED

#### UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF ELECTRIC COSTS

#### DS SERVICE POWER SUPPLY CONTRACTS

								M	ONTH ENER	GY	PURCHASES	S D	ELIVERED					
§1											2021							
SUPPLIERS		JAN	FEB	MA	₹	APR	MAY		JUN		JUL		AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier B																		
Iormal Service																		
Period Begin		1/1/2021	2/1/2021	3/	1/2021	4/1/2021	5/1/2021		6/1/2021		7/1/2021		8/1/2021	9/1/2021	10/1/2021	11/1/2021		
Period End		1/31/2021	2/28/2021	3/3	0/2021	4/30/2021	5/31/2021		6/30/2021		7/31/2021		8/31/2021	9/30/2021	10/31/2021	11/30/2021		
\$ Amount	\$	328,531	\$ 426,643	\$ 27	7,216	220,036	\$ 227,667	\$	328,904	\$	326,234	\$	444,054	\$ 374,983	\$ 380,912	\$ 381,979		\$ 3,717,159
% to Total		8.59%	11.15%		7.25%	5.75%	5.95%		8.60%		8.53%		11.61%	9.80%	9.96%	9.98%		97.16
Payment Date																		
Lead Period																		
Weighted Days																		
rior Period Adjustm	ents																	
shown in billing per	iod i	n 2021)																
Period Begin		1/1/2021	2/1/2021	3/	1/2021	4/1/2021	5/1/2021		6/1/2021		7/1/2021		8/1/2021	9/1/2021	10/1/2021			
Period End		1/31/2021	2/28/2021	3/3	0/2021	4/30/2021	5/31/2021		6/30/2021		7/31/2021		8/31/2021	9/30/2021	10/31/2021			
\$ Amount	\$	(6,295)	\$ (4,739)	\$ (	1,129) \$	3,289	\$ 6,046	\$	7,540	\$	26,689	\$	31,750	\$ 10,300	\$ 35,086			\$ 108,53
% to Total		-0.16%	-0.12%	-	0.03%	0.09%	0.16%		0.20%		0.70%		0.83%	0.27%	0.92%			2.84
Payment Date																		
Lead Period																		
Weighted Days																		
Total \$ Amount	\$	322,236	\$ 421,904	\$ 27	6,087	223,326	\$ 233,712	\$	336,444	\$	352,923	\$	475,803	\$ 385,283	\$ 415,998	\$ 381,979	\$ _	\$ 3,825,69

Weighted Days

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## REDACTED

# UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page	Cost	% of Total	Average Days Lead	Weighted Days Lead
Summary Total Non-G1 Default Service Supplier Costs Renewable Energy Credits Total	see below Schedule DTN-1 p 23	\$ 51,049,870 \$ 5,019,262 \$ 56,069,132	91.05% 8.95% 100.00%	35.76 days 308.33 days - -	32.56 days 27.60 days 60.16 days
Detail for Non-G1 Default Service Supplier Costs Supplier C Supplier D	6 7	\$ 45,821,043 \$ 5,228,827	89.76% 10.24%		
Total Non-G1 Default Service Supplier Costs		\$ 51,049,870	100.00%	_	35.76 days

#### REDACTED

#### UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF ELECTRIC COSTS

#### DS SERVICE POWER SUPPLY CONTRACTS

								М	ONTH ENER	GY	PURCHASES	S D	ELIVERED							
ION-G1											2021									
UPPLIERS		JAN	FEB	MAR	APR		MAY		JUN		JUL		AUG	SEP	(	OCT	NOV	DEC		TOTAL
Supplier C																				
Iormal Service																				
Period Begin		1/1/2021	2/1/2021	3/1/2021	4/1/20	21	5/1/2021		6/1/2021		7/1/2021		8/1/2021	9/1/2021	1	10/1/2021	11/1/2021	12/1/202	1	
Period End		1/31/2021	2/28/2021	3/30/2021	4/30/20	21	5/31/2021		6/30/2021		7/31/2021		8/31/2021	9/30/2021	10	0/31/2021	11/30/2021	12/31/202	1	
\$ Amount	\$	4,023,831	\$ 3,678,511	\$ 2,770,456	2,319,82	9 \$	2,184,416	\$	3,549,922	\$	4,416,526	\$	3,630,741	\$ 1,809,102	\$ 2	,789,493	\$ 3,808,122	\$ 11,079,514	\$	46,060,46
% to Total		8.78%	8.03%	6.05%	5.06	%	4.77%		7.75%		9.64%		7.92%	3.95%		6.09%	8.31%	24.189	6	100.52
Payment Date																				
Lead Period																				
Weighted Days																				
rior Period Adjustm	ents	;																		
shown in billing per	iod i																			
Period Begin		1/1/2021	2/1/2021	3/1/2021	4/1/20	21	5/1/2021		6/1/2021		7/1/2021		8/1/2021	9/1/2021	1	0/1/2021				
Period End		1/31/2021	2/28/2021	3/30/2021	4/30/20		5/31/2021		6/30/2021		7/31/2021		8/31/2021	9/30/2021		0/31/2021				
\$ Amount	\$	35,029	\$ 71,857	\$ (50,134)	(232,99	2) \$	(155,583)	\$	39,074	\$	55,944	\$	(4,111)	\$ (15,148)	\$	16,646			\$	(239,42
% to Total		0.08%	0.16%	-0.11%	-0.5	%	-0.34%		0.09%		0.12%		-0.01%	-0.03%		0.04%				-0.52
Payment Date																				
Lead Period																				
Weighted Days																				
Total \$ Amount	\$	4,058,860	\$ 3,750,368	\$ 2,720,321	2,086,83	7 \$	2,028,833	\$	3,588,996	\$	4,472,470	\$	3,626,630	\$ 1,793,954	\$ 2	,806,139	\$ 3 808 122	\$ 11,079,514	\$	45,821,04

Weighted Days

#### REDACTED

#### UNITIL ENERGY SYSTEMS, INC LEAD IN PAYMENT OF ELECTRIC COSTS

#### DS SERVICE POWER SUPPLY CONTRACTS

							MONTH EN	RGY PURCHAS	SES DELIVERED	)				
NON-G1								2021						
SUPPLIERS	JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier D														
Normal Service														
Period Begin	1/1/2	021	2/1/2021	3/1/2021	4/1/2021	5/1/2021								
Period End	1/31/2	021	2/28/2021	3/30/2021	4/30/2021	5/31/2021								
\$ Amount	\$ 1,357,0	24 \$	1,271,056	\$ 1,013,829	\$ 710,666	\$ 680,769								\$ 5,033,34
% to Total	25.9	5%	24.31%	19.39%	13.59%	13.02%								96.26
Payment Date														
Lead Period														
Weighted Days														
Prior Period Adjustm	ents													
shown in billing peri	od in 2021)													
Period Begin	1/1/2	021	2/1/2021	3/1/2021	4/1/2021	5/1/2021								
Period End	1/31/2	021	2/28/2021	3/30/2021	4/30/2021	5/31/2021								
\$ Amount	\$ 71,8	21 \$	27,604	\$ 20,042	\$ 40,052	\$ 35,962								\$ 195,48°
% to Total	1.3	7%	0.53%	0.38%	0.77%	0.69%								3.74
Payment Date														
Lead Period														
Weighted Days														
Total \$ Amount	\$ 1,428,8	45 \$	1,298,661	\$ 1,033,871	\$ 750,719	\$ 716,731	\$	- \$	- \$	- \$ -	\$	- \$ -	\$ .	\$ 5,228,82

Weighted Days