

Unitil Energy Systems, Inc  
Default Service Tariffs  
September 17, 2010  
Table of Contents

<b>ORIGINAL</b>	
N.H.P.U.C. Case No.	<u>DE 10-028</u>
Exhibit No.	<u>#9</u>
Witness	<u>Furino - McNamara</u>
DO NOT REMOVE FROM FILE	

Cover Letter  
Petition  
Motion for Confidentiality and Protective Order  
Certificate of Service  
Proposed Tariffs

Exhibit RSF-1: Testimony of Robert S. Furino

Schedule RSF-1: Bid Evaluation Report  
    Tab A: Confidential Material  
Schedule RSF-2: Requests for Proposals  
Schedule RSF-3: Customer Migration Report  
Schedule RSF-4: RPS Compliance Cost Estimates  
Schedule RSF-5: Historical Pricing by Customer Group  
Schedule RSF-6: Calculation of Proposed RSO Rates

Exhibit LSM-1: Testimony of Linda S. McNamara

Schedule LSM-1: Redline Tariffs  
Schedule LSM-2: Non-G1 Class Retail Rate Calculation – Power Supply Charge  
Schedule LSM-3: Non-G1 Class Retail Rate Calculation – Renewable Portfolio Standard  
    Charge  
Schedule LSM-4: G1 Class Retail Rate Calculation – Power Supply Charge  
Schedule LSM-5: G1 Class Retail Rate Calculation – Renewable Portfolio Standard  
    Charge  
Schedule LSM-6: Annual Update to Internal Administrative Costs  
Schedule LSM-7: Bill Impacts



September 17, 2009

**BY HAND-DELIVERY**

Debra A. Howland  
Executive Director and Secretary  
New Hampshire Public Utilities Commission  
21 S. Fruit St, Suite 10  
Concord, N.H. 03301-2429

**Re: PETITION FOR APPROVAL OF DEFAULT SERVICE  
SOLICITATION AND PROPOSED DEFAULT SERVICE  
TARIFFS**

**Docket No. DE 10-028**

Dear Secretary Howland:

On behalf of Unitil Energy Systems, Inc. ("UES"), enclosed please find an original and six (6) copies 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' solicitation and procurement, for the period beginning November 1, 2010, of 100 percent of its Default Service ("DS") requirements for its G1 customers for three months, and for 25 percent of the small customer (non-G1) DS power supply requirements for 12 months, and for 25 percent of small customers default service requirements for 24 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. Robert S. Furino, Director, Energy Contracts, Unitil Service Corp.
2. Linda S. McNamara, Senior Regulatory Analyst, Unitil Service Corp.

An original and six (6) copies of UES' Motion for Confidentiality and Protective Order are also enclosed. The Confidential portions of this filing have been removed, and the original and six (6) copies of these sections are enclosed in sealed and marked envelopes.

Gary M. Epler  
Chief Regulatory Attorney  
6 Liberty Lane West  
Hampton, NH 03842-1720

Phone: 603-773-6440  
Fax: 603-773-6640  
Email: epler@unitil.com

An electronic copy of the non-confidential version filing is being provided to the Commission, Commission Staff and the Office of Consumer Advocate ("OCA") as required by N.H. Code Admin. Pro. Puc 203.03.

Debra A. Howland  
Executive Director and Secretary  
Docket No. DE 10-028  
September 17, 2010  
Page 2 of 2

Thank you for your attention to this matter.

Sincerely,

***/s/ Gary Epler***

Gary Epler  
Attorney for Unitil Energy Systems, Inc.

Enclosure

cc: Meredith Hatfield, Consumer Advocate (with Confidential material)

**BEFORE THE NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**UNITIL ENERGY SYSTEMS, INC.**  
**Petitioner**

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**DOCKET NO. DE 10-028**

**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’ solicitation and procurement of three contracts for Default Service (“DS”). The first contract is for 100 percent of large customer (G1) default service requirements for three months in duration, November 1, 2010, through January 31, 2011; the second contract is for 25 percent of small customer (non-G1) default service requirements for 12 months in duration, November 1, 2010 through October 31, 2011; and the third contract is for 25 percent of small customer default service requirements for 24 months in duration, November 1, 2010 through October 31, 2012; 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 September 24, 2010. 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, and as approved by the Commission in NHPUC Order No. 24,511, UES has solicited for DS power supplies for three contracts: One contract is for 100 percent of large customer default service requirements, three months in duration; one for 25 percent of small customers default service requirements for 12 months in duration; and one for 25 percent of small customers default service requirements for 24 months in duration. All contract deliveries will begin November 1, 2010. The solicitation process was conducted in accordance with the model schedule contained in the Settlement Agreement.

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 RSF-1: Testimony and Schedules of Robert S. Furino.

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

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

UES submits that it has conducted the solicitation process, made its selection of the winning bidder and entered into a Power Supply Agreement in accordance with the representations set forth in its Petition submitted on April 1, 2005, as amended by the 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' compliance in this regard are set forth in Exhibit RSF-1 and the Bid Evaluation Report attached as Schedule RSF-1 thereto. A copy of the RFP, redlined against the previous RFP issued by UES in this docket, was provided to Commission Staff and the Office of Consumer Advocate ("OCA") by e-mail on September 16, 2010. A redline version of the final Power Supply Agreement with the winning bidder is provided in the confidential attachment labeled Tab A to Schedule RSF-1.

#### **Proposed Tariffs**

UES' 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.

#### **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 Variable Power Supply Charges and Schedule LSM-5, Page 1, shows the proposed G1 Variable RPS Charge. All schedules are attached to Exhibit LSM-1.

#### **Bill Impacts**

Schedule LSM-7 provides typical bill impacts associated with UES' proposed DS rate changes for customers who do not choose a competitive supplier.

**Motion for Confidential Treatment**

Accompanying this Petition is a Motion for Confidential Treatment and Protective Order wherein UES seeks protective treatment with respect to certain information contained in Exhibit RSF-1 and Exhibit LSM-1 and in the e-mails exchanged with the Staff and the OCA on September 17, 2010 containing the confidential material.

**Request for Approvals**

UES respectfully requests that the Commission issue a final order no later than September 24, 2010, 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' 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 resulting from the solicitation are reasonable;
5. CONCLUDE that, based upon the above Findings and Conclusion that the power supply costs resulting 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 November 1, 2010.

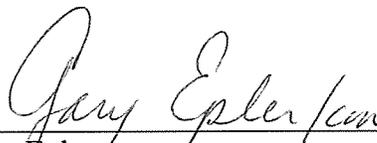
6. GRANT APPROVAL of the tariff changes requested herein.
7. GRANT APPROVAL of the Motion for Confidential Treatment and Protective Order.

**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:



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Chief Regulatory Attorney  
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September 17, 2010

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

<b>PETITION FOR APPROVAL OF DEFAULT SERVICE SOLICITATION</b>	)	
<b>UNITIL ENERGY SYSTEMS, INC.</b>	)	<b>DOCKET NO. DE 10-028</b>
<b>Petitioner</b>	)	

**MOTION FOR CONFIDENTIAL TREATMENT  
AND PROTECTIVE ORDER**

Unitil Energy Systems, Inc. (“UES” or the “Company”) respectfully requests that the New Hampshire Public Utilities Commission (the “Commission”) grant a protective order for certain confidential information contained in the Company’s “Petition for Approval of Default Service Solicitation and Proposed Default Service Tariff” (“Petition”), consistent with R.S.A. 91-A:5(IV) and N.H. Admin. Rules, Puc 203.08. Specifically, UES requests that the Commission issue an order requiring confidential treatment for:

- (a) The material contained in Tab A of Schedule RSF-1 which is attached to Exhibit RSF-1 (with the exception of the name of the winning bidders, TransCanada Power Marketing, Inc, as the supplier for the 24-month Non-G1 supply requirement, PSEG Energy Resource & Trade LLC, as the supplier for the 12-month Non-G1 supply requirements, and Hess Corporation as the supplier for the 3-month G1 supply Requirement.);
- (b) The “Total G1 Class DS Supplier Charges,” “Working Capital Requirement,” “Supply Related Working Capital,” and “Provision for Uncollected Accounts,”

found on columns (a), (d), (f) and (g) of Page 2 of Schedule LSM-4. As discussed in paragraph no. 4, below, UES is seeking protective treatment of this information for only a limited period of time.

(c) UES is also seeking protective treatment of confidential information provided to the Staff and OCA by e-mail on September 17, 2010.

In support of this motion, UES states as follows:

1. In its Petition, UES seeks Commission approval of the results of the Default Service solicitation, and approval of Proposed Default Service Tariffs for G1 and non-G-1 customers beginning November 1, 2010. As required by Order No. 24,511 (Docket DE 05-064), the Petition contains a Bid Evaluation Report (“Report”) in which UES provides a detailed analysis of the solicitation process. See Exhibit RSF-1, Schedule RSF-1. In addition, UES has provided Schedule LSM-4 which contains the calculation of the G1 Default Service Power Supply charges and supply related working capital, respectively.

2. Tab A of the Report contains the following information and material: a brief narrative discussion of the comparison of the bids received; identification of the suppliers who responded to the Request for Proposals (“RFP”) issued by UES on August 10, 2010; a pricing summary consisting of a comparison of prices bid by all bidders, a summary of each bidder’s financial security requirements of UES and each bidder’s own provision of financial security and creditworthiness: information provided by each bidder upon their submission of the proposal submission form; the contact list used by UES during the RFP process, including a summary of UES’ communications with each contact

and UES' expectations with regard to each potential bidder's intention to bid; and the final Power Supply Agreement ("PSA") redlined against the original PSA as issued.

3. UES seeks protection from public disclosure of all of the information contained in Tab A because it is confidential commercial and financial information. The bidding suppliers' information, including each supplier's identity, bid price and non-price terms, and other information provided to UES in response to the RFP, has been provided to UES pursuant to express understandings that this material will be maintained as confidential. UES submits that suppliers will be reluctant to participate in future solicitations by UES, and may completely refuse to participate in this market, if their confidential bid information is publicly disclosed. Disclosure of this information may detrimentally impact upon such suppliers' ability to participate in competitive solicitations in other markets within the northeast region as well. For the same reasons, UES seeks protection from public disclosure of the confidential information provided to Commission Staff and the Office of Consumer Advocate by e-mail on September 17, 2010.

4. UES also requests confidential treatment for the "Total G1 Class DS Supplier Charges," "Working Capital Requirement," "Supply Related Working Capital," and "Provision for Uncollected Accounts," found on columns (a), (d), (f) and (g) of Page 2 of Schedule LSM-4. UES seeks confidential treatment of this information because if any of it is disclosed, the G1 class Wholesale Rate may be calculated. For example, since the kWh purchases are provided elsewhere, the Total G1 Class DS Supplier Charges must remain confidential, because dividing that number by the purchases would yield the confidential Wholesale Rate. Additionally, since there is a known relationship between

the Supplier Charges, the Working Capital Requirement, and Working Capital Costs, it is necessary not only to protect the Working Capital Requirement and associated Working Capital Costs, but also another cost element such as the Provision for Uncollected Accounts. Since the G1 class has just one supplier with monthly pricing, without protection of the Provision for Uncollected Accounts, the Supplier Charges and Working Capital Costs of this supplier may be derived.

5. UES does not claim that the “Supplier Charges,” “Provision for Uncollected Accounts,” “Supply Related Working Capital” and “Working Capital Requirement” are confidential information. However, UES seeks to redact this information from the publicly available material for a limited period because revealing it would allow a person to compute information – the Wholesale Rate - which is confidential. As a result of the Settlement Agreement in Docket DE 05-064, UES’ supply-related working capital costs are to be recovered through default service rates. Thus, the inclusion of the above items in the attached schedule is necessary in order to show the calculation of the default service rate.

6. It is UES’ understanding that a wholesale supplier is obligated, pursuant to certain reporting requirements, to report to the Federal Energy Regulatory Commission (“FERC”) the price and volume of its wholesale contractual sales during each quarter, and to identify the party to whom the sale has been made, within 30 days of the end of that quarter. See FERC Docket No. RM01-8-000, Order No. 2001, 99 FERC ¶ 61, 107, 18 CFR Parts 2 and 35, issued April 25, 2002. This information is then available to the public electronically from FERC through its Electronic Quarterly Reports. Until such time as this pricing information is required by FERC to be made public in this manner, it

is the expectation and intent of the winning supplier to keep this information confidential so as to avoid disclosing price information which may be leveraged against it in other contemporaneous negotiations. Thus, it is critical that the Wholesale Rate and the "Supplier Charges," "Provision for Uncollected Accounts," "Supply related Working Capital Costs" and Working Capital Requirement" described above be redacted only until the Wholesale rate becomes publicly available at FERC, so that a person would not be able to derive the precise Wholesale Rate under the contract. Accordingly, UES is seeking that the information concerning the 3 month G1 contract be protected until May 1, 2011; that the information concerning the 12 month Non G-1 contract be protected until February 1, 2012; and that the information concerning the 24 month Non G-1 contract be protected until February 1, 2013.

7. R.S.A. 91-A:5(IV) expressly exempts from the public disclosure requirements of the Right-to-Know law, R.S.A. 91-A, any records pertaining to "confidential, commercial or financial information." The Commission's rule on confidential treatment of public records, Puc 203.08, also recognizes that confidential, commercial or financial information may be appropriately protected from public disclosure pursuant to an order of the Commission.

8. UES' request for a protective order is not inconsistent with the public disclosure requirements of the Right-to-Know law, R.S.A. 91-A. This statute generally provides open access to public records, but the Commission has recognized that the determination whether to disclose confidential information involves a balancing of the public's interest in full disclosure with the countervailing commercial or private interests for non-disclosure. In this instance, the interests in support of a protective order of

limited duration, in addition to those discussed above, include as well the interest of the State in promoting a competitive market for electricity, as expressed in RSA 374-F:1. The Commission has granted UES' request for confidential treatment of similar information contained in its previous DS tariff filings. UES submits that the considerations which the Commission determined supported approval of the protective order in those instances apply to the present filing. In Order No. 24,682, the Commission agreed that the information in "Provision for Uncollected Accounts" and "Supply-Related Working Capital" taken in combination would reveal the wholesale cost of power from the winning bidders and therefore constitutes confidential commercial or financial information protected from disclosure by RSA 91-A. In past DS proceedings, the Commission has also recognized the necessity of protecting information concerning the payment terms of the supply contracts from public disclosure.

WHEREFORE, UES respectfully requests that the Commission issue an order protecting the confidential information specified herein from public disclosure.

Respectfully submitted,

UNITIL ENERGY SYSTEMS, INC.

By its Attorney,

  
Gary Epler  
Chief Regulatory Attorney  
Unitil Service Corporation  
65 Liberty Lane West  
Hampton, NH 03842  
Tel. (603) 773-6440

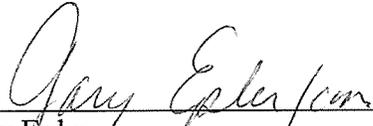
Dated: September 17, 2010

**CERTIFICATE OF SERVICE**

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

Meredith Hatfield, Consumer Advocate (by Hand-Delivery)  
Office of Consumer Advocate  
21 S. Fruit Street, Suite 18  
Concord, NH 03301-2429

Dated at Hampton, New Hampshire this 17th day of September, 2010.

  
\_\_\_\_\_  
Gary Epler

***SUMMARY OF LOW-INCOME  
 ELECTRIC ASSISTANCE PROGRAM DISCOUNTS***

**Low-Income Electric Assistance Program (LI-EAP) Discounts for Eligible Customers**

<b>Rate D</b>				
<u>Tier</u>	<u>Percentage of Federal Poverty Guidelines</u>	<u>Discount</u>	<u>Blocks</u>	<u>LI-EAP Discount(1)</u>
1	176 - 185	5%	Customer Charge	(\$0.42)
			First 250 kWh	(\$0.00615)
			Excess 250 kWh	(\$0.00640)
2	151 - 175	7%	Customer Charge	(\$0.59)
			First 250 kWh	(\$0.00861)
			Excess 250 kWh	(\$0.00896)
3	126 - 150	18%	Customer Charge	(\$1.51)
			First 250 kWh	(\$0.02215)
			Excess 250 kWh	(\$0.02305)
4	101 - 125	33%	Customer Charge	(\$2.77)
			First 250 kWh	(\$0.04060)
			Excess 250 kWh	(\$0.04225)
5	76 - 100	48%	Customer Charge	(\$4.03)
			First 250 kWh	(\$0.05905)
			Excess 250 kWh	(\$0.06145)
6	0 - 75	70%	Customer Charge	(\$5.88)
			First 250 kWh	(\$0.08612)
			Excess 250 kWh	(\$0.08962)

(1) Total utility charges from Supplement No. 2, Page 2 (excluding the Electricity Consumption Tax) plus Non-G1 class Fixed Default Service Rate multiplied by the appropriate discount.

Authorized by NHPUC Order No. \_\_\_\_\_ in Case No. DE 10-028, dated \_\_\_\_\_

Issued: September 17, 2010  
 Effective: November 1, 2010

Issued By: Mark H. Collin  
 Treasurer

DEFAULT SERVICE  
SCHEDULE DS

AVAILABILITY

This Schedule is for energy supply service only. Customers taking service hereunder must also take service under one of the Company's Delivery Service Schedules.

Default Service shall be available under this Schedule to all Customers, including Customers that return to utility-provided energy supply service after receiving energy supply service from a Competitive Supplier or self-supply (available to Market Participant End Users as described in NHPUC Order No. 24,172), or those Customers whose energy to be provided by a Competitive Supplier or self-supply does not reach the Company's distribution system for any reason.

CHARACTER OF SERVICE

Electricity will be supplied with the same characteristics as specified in the applicable Delivery Service Schedules.

DEFAULT SERVICE CHARGE

The Default Service Charges ("DSC") for each class are specified on Page 74 for the Non-G1 class and Page 75 for the G1 class, Calculation of the Default Service Charge.

DEFAULT SERVICE CHARGE RECONCILIATION

The DSC shall be calculated separately for the Non-G1 (all classes except G1) and the G1 classes. The DSC for the Non-G1 class will be calculated on a six month basis and shall be offered as a fixed charge or as a variable charge, as provided below. The DSC for the G1 class will be calculated on a three month basis and shall be offered as a variable charge only, as provided below. The DSC shall consist of two separate components, a Power Supply Charge and a Renewable Portfolio Standard (RPS) charge. The Power Supply Charge shall be based on a forecast of all Default Service costs, excluding the costs associated with complying with RPS, and shall include an annual reconciliation with interest for any over- or under-recoveries occurring in the prior period. The RPS Charge shall be based on a forecast of the costs to comply with RPS and shall include an annual reconciliation with interest for any over- or under-recoveries occurring in the prior period.

Separate reconciliation of costs and revenues for the Power Supply Charge and the RPS Charge, for both the Non-G1 and G1 classes, shall be performed on an annual basis effective May 1. Default Service costs included in the Power Supply Charge shall include wholesale supplier charges and GIS support payments, internal company administrative costs, supply-related working capital, external company administrative costs, and a provision for uncollectible accounts attributed to Default Service. External company administrative costs will be directly assigned to the Non-G1 or G1 class, as applicable. Costs that are common to both classes will be allocated to those classes based on kWh sales. Costs of uncollectible accounts will be directly assigned to the Non-G1 or G1 class. Default Service costs included in the RPS Charge shall include costs of compliance with the Renewable Portfolio Standard and associated working capital.

*Authorized by NHPUC Order No.*

*in Case No DE*

*dated*

Issued: September 17, 2010  
Effective: November 1, 2010

Issued by: Mark H. Collin  
Treasurer

**CALCULATION OF THE DEFAULT SERVICE CHARGE**

<b>Non-G1 Class Default Service:</b>	<u>Nov-10</u>	<u>Dec-10</u>	<u>Jan-11</u>	<u>Feb-11</u>	<u>Mar-11</u>	<u>Apr-11</u>	<u>Total</u>
<i>Power Supply Charge</i>							
1 Reconciliation	(\$16,806)	(\$19,941)	(\$21,368)	(\$18,607)	(\$18,308)	(\$16,294)	(\$111,325)
2 Total Costs	<u>\$4,135,671</u>	<u>\$5,219,851</u>	<u>\$6,188,946</u>	<u>\$5,438,446</u>	<u>\$4,801,961</u>	<u>\$4,202,547</u>	<u>\$29,987,423</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$4,118,865	\$5,199,910	\$6,167,578	\$5,419,839	\$4,783,653	\$4,186,253	\$29,876,098
4 kWh Purchases	<u>62,435,714</u>	<u>74,085,957</u>	<u>79,386,877</u>	<u>69,129,750</u>	<u>68,017,584</u>	<u>60,536,337</u>	<u>413,592,219</u>
5 Total, Before Losses (L.3 / L.4)	\$0.06597	\$0.07019	\$0.07769	\$0.07840	\$0.07033	\$0.06915	\$0.07224
6 Losses	<u>6.40%</u>						
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.07019	\$0.07468	\$0.08266	\$0.08342	\$0.07483	\$0.07358	
8 Total Retail Rate - Fixed Power Supply Charge (L.5 * (1+L.6))							\$0.07686
<i>Renewable Portfolio Standard (RPS) Charge</i>							
9 Reconciliation	\$1,619	\$1,921	\$2,059	\$1,793	\$1,764	\$1,570	\$10,726
10 Total Costs	<u>\$105,316</u>	<u>\$124,965</u>	<u>\$168,018</u>	<u>\$146,312</u>	<u>\$143,959</u>	<u>\$128,126</u>	<u>\$816,696</u>
11 Reconciliation plus Total Costs (L.9 + L.10)	\$106,935	\$126,886	\$170,077	\$148,105	\$145,723	\$129,696	\$827,422
12 kWh Purchases	<u>62,435,714</u>	<u>74,085,957</u>	<u>79,386,877</u>	<u>69,129,750</u>	<u>68,017,584</u>	<u>60,536,337</u>	<u>413,592,219</u>
13 Total, Before Losses (L.11 / L.12)	\$0.00171	\$0.00171	\$0.00214	\$0.00214	\$0.00214	\$0.00214	\$0.00200
14 Losses	<u>6.40%</u>						
15 Total Retail Rate - Variable RPS Charge (L.13 * (1+L.14))	\$0.00182	\$0.00182	\$0.00228	\$0.00228	\$0.00228	\$0.00228	
16 Total Retail Rate - Fixed RPS Charge (L.13 * (1+L.14))							\$0.00213
17 Total Retail Rate - Variable Default Service Charge (L.7 + L.15)	\$0.07201	\$0.07650	\$0.08494	\$0.08570	\$0.07711	\$0.07586	
18 Total Retail Rate - Fixed Default Service Charge (L.8+L.16)							\$0.07899

Authorized by NHPUC Order No. in Case No. DE 10-028, dated

**CALCULATION OF THE DEFAULT SERVICE CHARGE**

<b>G1 Class Default Service:</b>	<u>Nov-10</u>	<u>Dec-10</u>	<u>Jan-11</u>	<u>Total</u>
<i>Power Supply Charge</i>				
1 Reconciliation	(\$2,407)	(\$2,572)	(\$2,634)	(\$7,612)
2 Total Costs	<u>\$315,885</u>	<u>\$370,011</u>	<u>\$413,522</u>	<u>\$1,099,418</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$313,478	\$367,440	\$410,888	\$1,091,806
4 kWh Purchases	<u>5,125,497</u>	<u>5,475,852</u>	<u>5,608,358</u>	16,209,708
5 Total, Before Losses (L.3 / L.4)	\$0.06116	\$0.06710	\$0.07326	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.06397	\$0.07018	\$0.07663	
<i>Renewable Portfolio Standard (RPS) Charge</i>				
8 Reconciliation	\$3,670	\$3,921	\$4,016	\$11,608
9 Total Costs	<u>\$8,802</u>	<u>\$9,403</u>	<u>\$12,084</u>	<u>\$30,290</u>
10 Reconciliation plus Total Costs (L.8 + L.9)	\$12,472	\$13,325	\$16,101	\$41,897
11 kWh Purchases	<u>5,125,497</u>	<u>5,475,852</u>	<u>5,608,358</u>	16,209,708
12 Total, Before Losses (L.10 / L.11)	\$0.00243	\$0.00243	\$0.00287	
13 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
14 Total Retail Rate - Variable RPS Charge * (1+L.13))	\$0.00255	\$0.00255	\$0.00300	
15 Total Retail Rate - Variable Default Service Charge (L.7 + L.14)	\$0.06652	\$0.07273	\$0.07963	

Authorized by NHPUC Order No.

in Case No. DE 10-028, dated

Issued: September 17, 2010  
 Effective: November 1, 2010

Issued By: Mark H. Collin  
 Treasurer

**UNITIL ENERGY SYSTEMS, INC.**

**DIRECT TESTIMONY OF**

**ROBERT S. FURINO**

**New Hampshire Public Utilities Commission**

**Docket No. DE 10-028**

**September 17, 2010**

**0001**

## TABLE OF CONTENTS

I.	INTRODUCTION .....	3
II.	PURPOSE OF TESTIMONY.....	4
III.	SOLICITATION PROCESS .....	7
IV.	RENEWABLE PORTFOLIO STANDARD COMPLIANCE .....	12
V.	RENEWABLE SOURCE OPTION UPDATE.....	13
VI.	CONCLUSION.....	15

## LIST OF SCHEDULES

- Schedule RSF-1: Bid Evaluation Report**
- Schedule RSF-2: Request for Proposals**
- Schedule RSF-3: Customer Migration Report**
- Schedule RSF-4: RPS Compliance Cost Estimates**
- Schedule RSF-5: Historical Pricing by Customer Group**
- Schedule RSF-6: RSO Rate Calculation and Bill Impacts**

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Robert S. Furino. My business address is 6 Liberty Lane West,  
4 Hampton, NH.

5

6 **Q. What is your relationship with Unitil Energy Systems, Inc.?**

7 A. I am employed by Unitil Service Corp. (the "Service Company") as Director of  
8 the Energy Contracts department. The Service Company provides professional  
9 services to Unitil Energy Systems, Inc. ("UES").

10

11 **Q. Please briefly describe your educational and business experience.**

12 A. I received my Bachelor of Arts Degree in Economics from the University of  
13 Maine in 1991. I joined the Service Company in March 1994 as an Associate  
14 DSM Analyst in the Regulatory Services Department and have worked in the  
15 Regulatory, Product Development, Finance and Energy Contracts  
16 departments. My primary responsibilities involve energy supply acquisition.

17

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

3 A. Yes. I have testified before the Commission on many occasions.  
4

5 **II. PURPOSE OF TESTIMONY**

6 **Q. Please describe the purpose of your testimony.**

7 A. My testimony documents the solicitation process followed by UES in its  
8 acquisition of Default Service power supplies ("DS") for its G1 and Non-G1  
9 customers as approved by the Commission in Order No. 24,511, granting UES'  
10 Petition for Approval of a Default Service Supply Proposal for G1 and Non-G1  
11 Customers and Approval of Solicitation Process as amended by the Settlement  
12 Agreement filed with the Commission on August 11, 2005 (the "Order"). With  
13 the current RFP, UES has contracted for a 3-month DS power supply for its G1  
14 customers, 25% of DS power supply for Non-G1 customers for 24 months (two  
15 years) and 25% of DS power supply for Non-G1 customers for 12 months (one  
16 year), all for service beginning November 1, 2010.  
17

1 I describe how UES solicited for bids from wholesale suppliers to provide the  
2 supply requirements in accordance with the terms of the Order as UES has done  
3 in prior DS supply solicitations. I also describe how the proposals received were  
4 evaluated and the winning bidder was chosen. Supporting documentation and  
5 additional detail of the solicitation process followed is provided in the Bid  
6 Evaluation Report (“Report”), attached as Schedule RSF-1. A copy of the RFP as  
7 issued is attached as Schedule RSF-2, and an updated Customer Migration Report  
8 is attached as Schedule RSF-3. The Customer Migration Report shows monthly  
9 retail sales and customer counts supplied by competitive generation, total retail  
10 sales and customer counts (the sum of default service and competitive generation)  
11 and the percentage of sales and customers supplied by competitive generation.  
12 The report provides a rolling 12-month history which covers the period from July  
13 2009 through June 2010.

14  
15 Renewable Portfolio Standard (RPS) Compliance Cost Estimates are included as  
16 Schedule RSF-4. My testimony reviews UES’ approach to compliance with the  
17 RPS which went into effect in January 2008. Schedule RSF-4 details projected  
18 obligations and price assumptions for the coming rate period. The price  
19 assumptions listed in Schedule RSF-4 are based on recent market data.

1 Lastly, two new exhibits are provided. Schedule RSF-5 provides historical price  
2 data by customer group that is no longer subject to confidential treatment. This  
3 schedule provides pricing histories associated with the most recent 3-month rate  
4 periods for G1 customers or 6-month rate periods for non-G1 customers for which  
5 all pricing is currently subject to the Federal Energy Regulatory Commission's  
6 ("FERC") quarterly reporting requirements. The other new schedule, Schedule  
7 RSF-6 provides the calculation of proposed Renewable Source Option ("RSO")  
8 rates for the 6-month period beginning November 1, 2010. This schedule  
9 supports the rates presented in the proposed Schedule RSO tariff sheets, provided  
10 in Schedule LSM-1 and also provides estimated bill impacts.

11  
12 **Q. Please summarize the approvals UES is requesting from the Commission.**

13 A. UES requests that the Commission:

- 14 • Find that: UES has followed the solicitation process approved by the  
15 Commission; UES' analysis of the bids submitted was reasonable; and UES  
16 has supplied a reasonable rationale for its choice of the winning suppliers.
- 17 • Find that price estimates of renewable energy certificates ("RECs") proposed  
18 by UES, based on actual purchases or current market prices, are appropriate  
19 for inclusion in retail rates.

- 1           • On the basis of these findings, conclude that the power supply costs resulting  
2           from the solicitation are reasonable and that the amounts payable to the sellers  
3           under the supply agreement are approved for inclusion in retail rates.
- 4           • Issue an order granting the approvals requested in UES' Petition on or before  
5           September 24, 2010, which is five (5) business days after the date of this  
6           filing.
- 7           • Approve the proposed Renewable Source Option Charges for the 6 month  
8           period beginning November 1, 2010, as shown in the proposed Schedule RSO  
9           tariff sheets provided in Schedule LSM-1.

10

11   **III. SOLICITATION PROCESS**

12   **Q. Please discuss the Solicitation Process UES employed to secure the supply**  
13   **agreement for DS power supplies.**

14   A. In the same manner as its prior solicitations for default service supplies, UES  
15   conducted an open solicitation in which it actively sought interest among potential  
16   suppliers and provided potential suppliers with access to sufficient information to  
17   enable them to assess the risks and obligations associated with providing the  
18   services sought. UES did not discriminate in favor of or against any individual

1 potential supplier who expressed interest in the solicitation. UES negotiated with  
2 all potential suppliers who submitted proposals to obtain the most favorable terms  
3 from each potential supplier. The structure, timing and requirements associated  
4 with the solicitation are fully described in the RFP issued on August 10, 2010,  
5 which is attached as Schedule RSF-2, as well as summarized in the Report  
6 attached as Schedule RSF-1.

7

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

9 A. UES announced the RFP's availability electronically to all participants in  
10 NEPOOL by notifying all members of the NEPOOL Markets Committee via  
11 email. UES also announced the issuance of the RFP via email to a list of power  
12 suppliers and other entities such as distribution companies, consultants, brokers  
13 and members of public agencies who have previously expressed interest in  
14 receiving copies of UES's solicitations. UES followed up the email  
15 announcements with telephone calls to the power suppliers to solicit their interest.  
16 In addition, UES issued a media advisory to the power markets trade press  
17 announcing the issuance of the RFP. The announcement was carried by  
18 *Megawatt Daily* on August 10, 2010.

19

1    **Q.    What information was provided in the RFP to potential suppliers?**

2    A.    The RFP described the details of UES' DS, the related customer-switching rules,  
3           and the form of power service sought. To gain the greatest level of market  
4           interest in supplying the load, UES provided potential bidders with appropriate  
5           and accessible information. Data provided included historical hourly default  
6           service loads and daily capacity tags for each customer group; historical monthly  
7           retail sales and customer counts by rate class and supply type; a generic listing of  
8           large customers showing annual sales, peak demands, and capacity tag values as  
9           well as supply type (default service or competitive generation); and the evaluation  
10          loads, which are the estimated monthly volumes that UES would use to weight  
11          bids in terms of price. The hourly load data and capacity tags were updated prior  
12          to final bidding. All documents and data files were provided to potential suppliers  
13          via UES' corporate website ([www.unitil.com/rfp](http://www.unitil.com/rfp)).

14  
15   **Q.    How did UES evaluate the bids received?**

16   A.    UES evaluated the bids on both quantitative and qualitative criteria, including  
17          price, creditworthiness, willingness to extend adequate credit to UES to facilitate  
18          the transaction, capability of performing the terms of the RFP in a reliable manner  
19          and the willingness to enter into contractual terms acceptable to UES. UES

1 compared the pricing strips proposed by the bidders by calculating weighted  
2 average prices for the supply requirement using the evaluation loads that were  
3 issued along with the RFP.

4  
5 UES selected Hess Corporation (“Hess”) as the supplier for the 3-month G1  
6 supply requirement, TransCanada Power Marketing, LTD (“TCPM”) as the  
7 supplier for 25% Non-G1 requirement for 24 months (two years), and PSEG  
8 Energy Resources & Trade LLC (“PSEG”) as the supplier for the 25% Non-G1  
9 requirement for 12 months (one year). UES believes that Hess, TCPM and PSEG  
10 each offered the best overall value in terms of both price and non-price  
11 considerations for the respective supply requirements sought.

12  
13 **Q. Please describe the contents of the Bid Evaluation Report.**

14 A. Schedule RSF-1 contains the Report which further details the solicitation process,  
15 the evaluation of bids, and the selection of the winning bidder. The Report  
16 contains a narrative discussion of the solicitation process. A confidential section  
17 labeled “Tab A” follows the narrative. Tab A includes additional discussion  
18 regarding the selection of the winning bidders and presents several supporting  
19 exhibits that list the suppliers who participated, the pricing they submitted and

1 other information considered by UES in evaluating final proposals, including red-  
2 lined versions of the final supply agreements. UES seeks protective treatment of  
3 all materials in provided in Tab A.

4

5 On the basis of the information and analysis contained in the Report, UES submits  
6 that it has complied with the Commission's requirements set forth in the Order,  
7 and that the resulting DS power supply costs are reasonable and that the amounts  
8 payable to the sellers under the supply agreements should be approved for  
9 inclusion in retail rates.

10

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

13 A. UES' next default service solicitation will be for one hundred percent (100%) of  
14 G1 supplies for a three-month period beginning February 1, 2011. UES plans to  
15 issue an RFP for these supplies on November 9, 2010, with a filing for approval  
16 of solicitation results planned for December 10, 2010 and approval anticipated by  
17 December 17, 2010.

18

1 **IV. RENEWABLE PORTFOLIO STANDARD COMPLIANCE**

2 **Q. Please review the method by which UES intends to comply with the**  
3 **Renewable Portfolio Standard requirements.**

4 A. In accordance with the settlement agreement dated July 16, 2009, , UES will  
5 acquire 2010 RECs needed for RPS compliance by means of issuing two REC  
6 RFPs. UES will issue the first of these RFPs on October 11, 2010 seeking  
7 approximately 50% of its 2010 REC obligations. To date, UES has not procured  
8 any 2010 RECs.

9  
10 **Q. Please describe UES' estimates of RPS compliance costs.**

11 A. The current solicitation is for default service power supplies during 2010 and  
12 2011. Schedule RSF-4 lists the percentage of sales for which UES must purchase  
13 RECs for RPS compliance in 2010 and 2011. Based on current market prices as  
14 communicated to UES by brokers of renewable products, UES estimates the cost  
15 of Class I RECs at \$20.00 for 2010 and 2011; Class II RECs at \$50.00 for 2010  
16 and 2011; Class III RECs at \$25.00 for 2010 and 2011; and Class IV RECs at  
17 \$25.00 for 2010 and 2011.

18

1    **V.    RENEWABLE SOURCE OPTION UPDATE**

2    **Q.    Please briefly describe UES' RSO program which was approved by the**  
3    **Commission on May 7, 2010 in docket, DE 09-224.**

4    A.    The RSO Program, which the company is marketing to customers as the Green  
5    Neighbor Program, is an optional service that allows Domestic and Regular  
6    General Service default service customers who are not receiving payment  
7    assistance to financially support renewable generation. Through the program,  
8    customers may choose to have 25 percent, 50 percent or 100 percent of their  
9    consumption matched with purchases of Class I and Class II Renewable Energy  
10   Certificates ("RECs"). These REC purchases will be incremental to UES's RPS  
11   obligations. A customer who chooses to participate will be billed an additional  
12   charge – the Renewable Source Option Charge ("RSOC"), per Schedule RSO of  
13   the Company's tariff, based on the level of participation chosen. UES will  
14   purchase both Class I and Class II RECs in proportion to the respective  
15   requirements established in the New Hampshire Code of Administrative Rules  
16   Chapter Puc 2500 ("Puc 2500") for these types of RECs in a given calendar year.  
17  
18   With each default service filing that proposes non-G1 rates, UES will review its  
19   RSOC rates and propose new RSOC rates as appropriate for each of the three

1 options available. With the current filing, UES proposes to maintain the current  
2 RSOC rates since its underlying REC cost estimates have not changed. With each  
3 default service filing, UES will provide an update on program activity.  
4

5 **Q. Please describe UES' efforts to implement the RSO program.**

6 A. The Company has implemented systems and accounting changes, performed  
7 customer service representative training, and designed marketing materials  
8 intended to inform and attract eligible customers to participate in this optional  
9 program. As stated earlier, the program is being offered to customers as the  
10 Green Neighbor Program. UES promoted the program to eligible employees  
11 during the months of July and August to set the program in motion. UES also  
12 used testimonials and pictures of willing employees who enrolled in the program  
13 in its web-based and print collateral. A social media campaign centered on a  
14 dedicated Facebook page was developed as part of the marketing efforts. The  
15 Green Neighbor Program was officially launched on September 4, 2010 through a  
16 press release that went to all major media outlets in UES' service territory.  
17 Additional marketing efforts included magnetic signs for UES service trucks  
18 (which serve as moving billboards), new customer service messaging and  
19 customer bill inserts. Welcome kits, in both electronic and paper form were

1 created to recognize a customer's participation in the program. Window clings,  
2 postcards and electronic badges (that can be used for email or social media pages)  
3 are among the contents of the welcome kits.  
4

5 **Q. What information on the RSO Program does the Company intend to provide**  
6 **with its periodic updates?**

7 A. UES will submit updates on the RSO, or Green Neighbor Program, activity to the  
8 Commission with each quarterly default service filing. The updates will describe  
9 promotional activities undertaken and list participation data. Participation data  
10 will include the number of customers participating by rate class and option  
11 chosen, their kilowatt-hour consumption and the aggregate quantities of Class I  
12 and Class II RECs that will be purchased as a result of the program. Estimates of  
13 the projected annual revenue generated under the program (which ultimately go to  
14 fund renewable generation) will also be provided.  
15

16 **VI. CONCLUSION**

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

18 A. Yes, it does

**DE 10-028 – Unitil Energy Systems, Inc.**

**Default Service RFP  
Bid Evaluation Report**

Large Customers (100%): November 1, 2010– January 31, 2011

Small Customers (25%): November 1, 2010- October 31, 2011

Small Customers (25%): November 1, 2010- October 31, 2012

*RFP Issue Date: August 10, 2010*

**REDACTED VERSION**

File Date: September 17, 2010

Unitil Energy Systems, Inc. (“UES”)  
Default Service RFP  
Bid Evaluation Report

*Table of Contents*

*Introduction*..... 3  
*Solicitation Process*..... 4  
*Selection of Winning Bidders*..... 6

## Unitil Energy Systems, Inc. Bid Evaluation Report

### ***Introduction***

On Tuesday August 10, 2010 UES announced that its Request for Proposals (“RFP”) for Default Service (“DS”) supplies for the period beginning November 1, 2010 was available. In accordance with UES’ DS supply proposal as approved by the Commission in Order No. 24,511 (“the Order”), UES issued this RFP to obtain fixed monthly price offers to supply default service customers; one-hundred percent (100%) of G1, or large customer group, for a three-month period, twenty-five percent (25%) of non-G1, or small customer group, for a period of one year, and twenty-five percent (25%) of non-G1 for a period of two years. Contract deliveries will begin November 1, 2010.

The RFP document issued on August 10, 2010, was consistent in form and substance to the prior RFP issued by UES on May 11, 2010. Shortly after issuance, UES filed with the Commission a redlined version of the current RFP, marked to show changes from the RFP issued on May 11, 2010. A copy of the RFP documents issued to the market on August 10, 2010, including the Proposal Submission Form, the proposed Power Supply Agreement (“PSA”), and the proposed PSA Amendment is attached to the petition as Schedule RSF-2.

UES received a positive response to this RFP, receiving bids from capable suppliers who competed to serve the load requirements. UES awarded the three-month G1 customer default service requirement to Hess Corporation (“Hess”), the one-year non-G1 customer default service requirement to PSEG Energy Resources & Trade LLC (“PSEG”) and the two-year non-G1 customer default service requirement to TransCanada Power Marketing, LTD (“TCPM”). In UES’ opinion, these suppliers offered the best overall value for the respective service requirements. The default service power supply prices obtained by UES are the result of a competitive solicitation and are reflective of current market

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

UES’ 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 attached as Tab A to this Report. Details of the market response, including bid prices, and certain non-price considerations and selection rationale, are included in the Tab A materials.

### ***Solicitation Process***

UES accomplished market notification of the RFP by announcing its availability electronically to all participants in NEPOOL, in particular, to the members of the NEPOOL Markets Committee on Tuesday August 10, 2010. UES also announced the issuance of the RFP to a list of contacts from energy companies who have previously expressed interest in receiving copies of UES’ solicitations. During the process of soliciting interest in the RFP, the list was updated as appropriate. The list includes individuals representing 32 separate power suppliers who were provided with the announcement; this count does not include other distribution companies, consultants or brokers (unless working on behalf of a named client who might participate), or members of public agencies. In addition, UES issued a media advisory to the power markets trade press announcing the issuance of the RFP.

The RFP documents and accompanying data files were provided to interested parties using Until Corporation’s website ([www.unitil.com/rfp](http://www.unitil.com/rfp)), under “Current Procurement” for UES (please note, those documents can now be found under the “Concluded Procurements” section). The RFP described the particulars of UES’ 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”), a proposed PSA Amendment for use by existing suppliers and various data files.

To gain the greatest level of market interest in supplying the loads, UES endeavored to provide potential bidders with appropriate and accessible information. Along with the RFP, UES provided potential bidders with historical hourly loads and daily capacity tag values for UES' DS customers for the period from January 1, 2009 through June 30, 2010. UES also provided an Excel spreadsheet containing historic retail monthly sales and customers reports from May 2003 through June 2010. 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. The hourly loads and daily capacity file was updated prior to final bidding to provide data through August 2010.

The RFP instructed potential suppliers on how to access class average load shape (8760 hours) data located on Unitil Corporation's website and provided distribution loss factors associated with each rate class. Data on large customer characteristics and migration activity was also provided. The data included a generic listing of all G1 customers showing each customer's annual energy consumption, peak demand and ICAP tag for the capacity year starting June 1, 2010, each customer's current supply type (default service or competitive generation), date of last transaction and meter read billing cycle. Lastly, UES provided 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 weight 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 Tuesday, August 31, 2010, 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 Tuesday, September 14, 2010 UES received final pricing from bidders and conducted its evaluation. UES selected and notified Hess, PSEG and TCPM as the winners of the service requirements. All other bidders were notified that they were not selected.

### ***Selection of Winning Bidders***

UES based its selection of winning bidders on both quantitative and qualitative criteria. When the indicative bids were received, UES 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. When final bids were received, UES compiled weighted average prices using the evaluation loads that were issued to bidders along with the RFP. UES then evaluated the price and non-price aspects of the final bids received. The comparison of bids contained in Tab A, which is confidential and which includes materials documenting UES' rationale for its selection of winning bidders, is attached.

# Unitil Energy Systems, Inc. (“UES”)

## Default Service Request for Proposals

### UES Service Requirements

Large Customers (100%): November 1, 2010– January 31, 2011

Small Customers (25%): November 1, 2010– October 31, 2011

Small Customers (25%): November 1, 2010– October 31, 2012

Issue Date: August 10, 2010

# Unitil Energy Systems, Inc. (“UES”)

## Default Service Request for Proposals Table of Contents

I. <u>Introduction</u> .....	1
II. <u>Description of Default Service</u> .....	2
<u>Data Provided</u> .....	2
III. <u>General Provisions</u> .....	4
<u>Terms and Conditions</u> .....	4
<u>Proposal Process and Submission Dates</u> .....	4
<u>Contact Person and Questions</u> .....	5
<u>Right to Select Supplier</u> .....	6
<u>Customer Billing and Customer Service</u> .....	6
IV. <u>Service Features</u> .....	6
<u>Supply Obligation Period</u> .....	6
<u>Delivery Point</u> .....	6
<u>Form of Service</u> .....	6
<u>Renewable Portfolio Standards</u> .....	7
V. <u>Proposal Requirements</u> .....	7
<u>Requested Information</u> .....	7
<u>Proposed Pricing</u> .....	8
<u>Bidder Requirements</u> .....	8
VI. <u>Evaluation Criteria</u> .....	8
Appendix A: Proposal Submission Form	
Appendix B: Proposed Power Supply Agreement (PSA)	
Appendix B1: Proposed PSA Amendment	

**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’s retail customers beginning on May 1, 2003.

On September 9, 2005, the NHPUC approved UES’ plan for procurement of default service supply for the period beginning May 1, 2006<sup>2</sup>. UES procures the power supply required to meet its default service obligations for small customers through four full requirements contract blocks, each for an equal share (25%) of the service requirement. Two of these contracts are for one-year terms and two are for two-year terms. One of the one-year contracts begins on May 1 each year and the other begins on November 1 each year. One of the two-year contracts begins every third May 1 and the other begins every third November 1. UES procures the power supply required to meet its default service obligations for large customers through quarterly contracts for the full (100%) requirements. Each quarter, UES procures a replacement contract for its large customers.

Via this request for proposals (“RFP”), UES is seeking competing fixed monthly price offers to supply three default service contracts. One contract is for 100% of large customer default service requirements, three months in duration; one for 25% of small customers default service requirements for 12 months in duration; and one for 25% of small customers default service requirements for 24 months in duration. All contract deliveries will begin November 1, 2010.

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 supplier. This RFP and supporting materials can be obtained on Unitil’s website at the following address: [www.unitil.com/rfp](http://www.unitil.com/rfp), under “Current Procurement” for UES. The complete RFP text is available as a single ZIP file (“UES\_DS\_RFP\_Package\_2010-08.zip”). In addition, the RFP and its appendices, including the submission form, bid sheet and proposed contract, 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 Kristen Cote at (603) 773-6429 or at [cotek@unitil.com](mailto:cotek@unitil.com) with any questions regarding these materials.

---

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

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

**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 unique customer group and supply period combination sought will be evaluated and awarded separately.

<b>Load Asset Description</b>	<b>Customer Rate Classes</b>	<b>Load Asset #</b>
UES Small Default Load	D, G2, OL	11451, 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, 2009 through June 30, 2010. 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\_Hourly\_Loads\_Cap\_Tags\_2010-08.xls”.

Historic Retail Monthly Sales Report

Monthly sales data from May 2003 through June 2010 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\_2010-08.xls”.

Class Average Load Shapes (8760 hours), as measured at the customer meter level, are available on Unutil’s website at the following address:

<http://services.unutil.com/content/xls/UESPROFILES.xls>.

Distribution System Loss Factor 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.

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

Large Customer Activity is demonstrated by a generic listing of the annual retail energy consumption, peak demands and ICAP tags of UES’s G1 customers. The tags reflect the capacity year which began June 1, 2010. This listing indicates each customer’s current supply type (default service or competitive generation), date of last transaction, and billing cycle. Please see the file named “UES\_Large\_Customers\_2010-08.xls.”

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. The Evaluation Loads are included on the bid sheets. Please see the file named “Bid\_Sheets\_2010-08.xls.”

### III. General Provisions

#### Terms and Conditions

For those default service loads that respondents choose to bid, respondents must offer fixed monthly prices 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.

Along with this RFP, UES has provided a proposed contract (“Power Supply Agreement”) which details the contractual terms and conditions under which default service as sought herein will be provided. Please see the file named “App\_B\_Power\_Agreement\_2010-08.doc”. UES is generally willing to adopt or amend previously negotiated or executed agreements. Please see the file named “App\_B1\_PSA\_Amend\_2010-08.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.

Item	Date
Issue DS RFP	Tuesday 8/10/2010
Proposal Submission Forms Due (includes indicative pricing and contract comments)	Tuesday 8/31/2010
Final Pricing Due	Tuesday 9/14/2010 10:00AM
Winning Supplier Notified	9/14/2010– 1pm EPT
Contracts Executed	Wednesday, 9/15/2010
File for Approval of Rates	Friday, 9/17/2010
Anticipated Approval of Rates	Friday 9/24/2010

UES DS Service Commences	Monday, 11/1/2010
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Respondents to this RFP must submit a completed Proposal Submission Form, including indicative pricing and any proposed contract modifications on or before August 31, 2010 and final pricing on September 14, 2010, as shown above. All submissions should be marked “UES DS RFP 2010-08” and sent via e-mail to energy\_contracts@unitil.com. Please direct any questions to Kristen Cote at (603) 773-6429 or at cotek@unitil.com

Proposal Submission Forms are attached as Appendix A. Please see the file named “App\_A\_Submission\_Form\_2010-08.doc.” Forms are due on **Tuesday, August 31, 2010**

Indicative Pricing is due along with the Proposal Submission Form. Indicative pricing should be submitted using the “Indicative Pricing” sheet from the Microsoft Excel file called “Bid\_Sheets\_2010-08.xls”. Bidders will find that all cells highlighted in yellow are where inputs should be entered.

Contract Comments, on either the full Power Supply Agreement or on the Amendment, are also due along with the Proposal Submission Form. 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.

Final Pricing should be submitted on the “Final Pricing” sheet from the Microsoft Excel file called “Bid\_Sheets\_2010-08.xls”. Respondent’s name must be clearly marked. Final pricing is due by **10:00 a.m. EPT on Tuesday, September 14, 2010**.

Winner Notified. 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 Tuesday, September 14, 2010**. Other bidders will be notified they were not selected shortly thereafter.

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 Kristen Cote at (603) 773-6429 or at cotek@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 Large Default Load	100%	Nov. 1, 2010	Jan. 31, 2011
UES Small Default Load	25%	Nov. 1, 2010	Oct. 31, 2011
UES Small Default Load	25%	Nov. 1, 2010	Oct. 31, 2012

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 10019 (Large Customer Group), 11451 and 11452 (Small Customer Group). The percentage Ownership Share for each load asset shall be as listed on the table above under Supply Obligation Period. 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

A minimum Electric Renewable Portfolio Standard (RPS) was established on May 11<sup>th</sup> 2007, implementing RPS requirements in New Hampshire beginning in January 2008. There are no requirements to provide renewable energy credits (RECs) for RPS compliance associated with the service sought herein.

## **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\_Submission\_Form\_2010-08.doc." Respondents are asked to complete the submission form and return it to Kristen Cote 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 has included with this RFP a copy of its most recent financials. Please see the file named “UES\_Financials\_2010-08.zip.” 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

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.

#### 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;
- 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; please see file named "Bid\_Sheets\_2010\_08.xls," as described at the end of Section II.

**Appendix A: Proposal Submission Form**

Please see the file named “App\_A\_Submission\_Form\_2010-08.doc”

**Appendix B: Proposed Power Supply Agreement (PSA)**

Please see the file named “App\_B1\_PSA\_Amend\_2010-08.doc”

**Appendix B1: Proposed PSA Amendment**

Please see the file named “App\_B\_Power\_Agreement\_2010-08.doc”

UES Default Service RFP  
Proposal Submission Form  
Due: Tue., August 31, 2010

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RESPONDENT: \_\_\_\_\_

**APPENDIX A: PROPOSAL SUBMISSION FORM**

RESPONDENT: \_\_\_\_\_

**1. General Information**

Name of Respondent	
Name of Parent or Guarantor (if any)	
<p>Principal contact person</p> <ul style="list-style-type: none"> <li>- Name</li> <li>- Title</li> <li>- Company</li> <li>- Mailing address</li> <li>- Telephone number</li> <li>- Fax number</li> <li>- E-mail address</li> </ul>	
<p>Secondary contact person (if any)</p> <ul style="list-style-type: none"> <li>- Name</li> <li>- Title</li> <li>- Company</li> <li>- Mailing address</li> <li>- Telephone number</li> <li>- Fax number</li> <li>- E-mail address</li> </ul>	
<p>Legal status of Respondent (e.g., sole proprietorship, partnership, limited partnership, joint venture, or corporation)</p>	
<p>State of incorporation, residency or organization</p>	
<p>The names of all general and limited partners (if Respondent is a partnership)</p>	

RESPONDENT: \_\_\_\_\_

Description of Respondent and all relevant affiliated entities and joint ventures	
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**2. Financial Information**

<i>Please provide the following for Respondent and/or Parent/Guarantor (as appropriate)</i>	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.		

RESPONDENT: \_\_\_\_\_

### 3. Defaults and Adverse Situations

<p>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.</p> <p>Explain the situation, its outcome and all other relevant facts associated with the event described.</p> <p>Please also identify the name, title and telephone number of the principal manager of the customer/client who asserted the event of default or noncompliance.</p>	
<p>Describe any facts presently known to Respondent that might adversely affect its ability to provide the service bid herein as provided for in the Request for Proposals.</p>	

### 4. NEPOOL and Power Supply Experience

<p>Is Respondent a member of NEPOOL?</p>	
<p>Please list Respondent's NEPOOL Participant ID.</p>	
<p>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.</p>	

RESPONDENT: \_\_\_\_\_

<p>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.</p>	
<p>Has Respondent previously provided Default Service to UES?</p> <p>If response is "NO", please provide references as requested below.</p> <p>----- --</p> <p>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.</p>	<p>YES or NO</p> <p>-----</p> <p>1.</p> <p>2.</p> <p>3.</p>

**5. Non Price Terms**

<p>Does Respondent extend sufficient financial credit to UES to facilitate the transactions sought via this RFP?</p>	<p>YES or NO</p>
<p>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.</p>	

UES Default Service RFP  
Proposal Submission Form  
Due: Tue. August 31, 2010,

RESPONDENT: \_\_\_\_\_

<p>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?</p>	<p>YES or NO</p>
<p>Please list all regulatory approvals required before service can commence.</p>	
<p>Is Respondent willing to enter into contractual terms substantially as proposed in the Power Supply Agreement contained in Appendix B?</p>	<p>YES or NO</p>
<p>Please provide any proposed modifications to the Power Supply Agreement in Appendix B or to the PSA Amendment in Appendix B1.</p> <p>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.</p>	

## POWER SUPPLY AGREEMENT

This POWER SUPPLY AGREEMENT (“Agreement”) is dated as of September 15, 2010 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 August 10, 2010 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.

**Affiliate** 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.

**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 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.

**Commencement Date** 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.

**Competitive Supplier Terms** 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.

**Conclusion Date** means the end of the HE 2400 EPT on the date set forth for the applicable Service Requirement on Schedule 2 of Appendix A.

**Contract Rate** 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.

**Credit Rating** 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.

**Credit Requirements** 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).

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

**Customer Group** means the Small Customer Group or the Large Customer Group, as the case may be.

**Customer Initiation Date** 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.

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

**Default Service** means the provision of Requirements by Seller at the Delivery Point to the Buyer to meet all needs of Default Service Customers.

**Default Service Customer(s)** means the retail customer(s) in each Customer Group taking service pursuant to Schedule DS of the Retail Delivery Tariff during the applicable Delivery Term.

**Delivered Energy** 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.

**Delivery Point** means the PTF location where Requirements are settled under ISO Rules. The Points of Interconnection between the Buyer and either Public Service Company of New Hampshire or various small power producers, listed in Appendix C. The Buyer may add or remove Points of Interconnection to its service territory.

**Delivery Term(s)** 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.

**GAAP** means General 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.

**Interest Rate** 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.

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

**ISO Manuals** means the ISO Manual M-06 Financial Transmission Rights, the ISO Manual M-11 Market Operations, the ISO Manual M-20 Installed Capacity, the ISO Manual M-27 Tariff Accounting, the ISO Manual M-28 Market Rule 1 Accounting, the ISO Manual M-29 Billing, the ISO Manual M-35 Definitions and Abbreviations, the ISO Manual M-36 Forward Reserve, the ISO Manual M-LRP Load Response Program, as they may be amended, restated, or succeeded from time to time. In the event that ISO adopts additional manuals, then these shall also be included in this definition.

**ISO Rules** 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.

**Large Customer Group** 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.

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

**MWh** means Megawatt-hour.

**NE-GIS** 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.

**NE-GIS Certificates** 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.

**NEPOOL Agreement** means the Second Restated New England Power Pool Agreement dated as 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.

**PTF** means facilities categorized as Pool Transmission Facilities under ISO Rules.

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

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

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

**Service Requirement** 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.

**Shareholder Equity** means the Common Stock Equity as defined in the audited annual financial statements prepared in accordance with current U.S. GAAP. However, Shareholder Equity shall be exclusive of accumulated Other Comprehensive Income.

**Small Customer Group** means the retail customers assigned to the following customer rate classes: Domestic Delivery Service Schedule D, Regular General Service Schedule G2, and Outdoor Lighting Service Schedule OL.

### **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 Commencement of Supply

- (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 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 Distribution Service Interruptions

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. Using the NE-GIS, then the Seller would be obligated to transfer the NE-GIS Certificates, associated with the Service Requirements into the Buyer's NE-GIS Account. The Buyer would be obligated to confirm such transfers in the NE-GIS.

### 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 October 1, 2010, 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 Responsibilities

(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, 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, Reliability Must-Run Operating Reserves (“RMR”) other than RMR Operating Reserve charges that are monthly fixed-cost charges paid to resources pursuant to agreements negotiated under Market Rule 1, Appendix A, Section 6, net commitment period compensation (“NCPC”) other than RMR NCPC charges that are monthly fixed-cost charges paid to resources pursuant to agreements negotiated under Market Rule 1 Appendix A, Section 6,

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.

### **Section 5.2 Billing and Payment**

(a) On or before the tenth (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 Challenge to Invoices

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 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

(a) 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. The Buyer will normally report to the ISO and to Seller Seller's estimated Delivered Energy by 1:00 P.M. EPT of the second following Business Day. 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. 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 ISO Settlement Power System Model Implementation

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:

(a) 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 Security

(a) If (i) with respect to Seller or Seller's credit support provider, [Seller's credit support provider], the Credit Rating of Seller or Seller's credit support provider is downgraded by Moody's and S&P, such that its Credit Rating is below an Investment Grade; or (ii) with respect to Buyer, its Shareholder Equity is at any time less than \$25,000,000 (each 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 or Seller has and maintains an Investment Grade Credit Rating or at least the minimum Shareholder Equity 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 or its Shareholder Equity, 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  
Director, Energy Contracts

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. Mark H. Collin  
Treasurer  
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 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 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 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 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 superceded, 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 then-current 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. 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 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.



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.

UNITIL ENERGY SYSTEMS, INC.

BY: \_\_\_\_\_

Its \_\_\_\_\_

[COMPANY]

BY: \_\_\_\_\_

Its \_\_\_\_\_

**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 August 10, 2010

Service Requirement	Load Asset Name and ID	Load Responsibility	Schedule 1	Schedule 2
100% UES Large Customer Group	UES Large Default Load, 10019	100%	Nov. 1, 2010	Jan. 31, 2011
25% UES Small Customer Group	UES Small Default Load, 11451, 11452	25%	Nov. 1, 2010	Oct. 31, 2011
25% UES Small Customer Group	UES Small Default Load, 11451, 11452	25%	Nov. 1, 2010	Oct. 31, 2012

**APPENDIX B**  
**Monthly Contract Rate by Service Requirement**  
**Dollars per MWh**

For service pursuant to Buyer's RFP issued on August 10, 2010

Service Requirement	Nov. 2010	Dec. 2010	Jan. 2011
100% UES Large Customer Group (3 months)			

Service Requirement	Nov.-10	Dec.-10	Jan.-11	Feb. -11	Mar.-11	Apr.-11
25% UES Small Customer Group (12 months)						
	May-11	Jun.-11	Jul.-11	Aug.-11	Sep.-11	Oct.-11

Service Requirement	Nov.-10	Dec.-10	Jan.-11	Feb. -11	Mar.-11	Apr.-11
25% UES Small Customer Group (24 months)						
	May-11	Jun.-11	Jul.-11	Aug.-11	Sep.-11	Oct.-11
	Nov.-11	Dec.-11	Jan.-12	Feb. -12	Mar.-12	Apr.-12
	May-12	Jun.-12	Jul.-12	Aug.-12	Sep.-12	Oct.-12

APPENDIX C  
POINTS OF INTERCONNECTION, REFERRED TO AS  
DELIVERY POINT

<b><u>Points of Interconnection</u></b>	<b><u>Nominal Delivery Voltage</u></b>	<b><u>Metering Point</u></b>	<b><u>Nominal Metering Voltage</u></b>
Garvins	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Concord Steam	3 $\phi$ , 4 wire, 7.9/13.8 kV	At Connection Point	3 $\phi$ , 4 wire, 7.9/13.8 kV
New Hampshire Hydro			
Lower Penacook Falls (1)	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Connection Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Upper Penacook Falls (1)	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Connection Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Briar Hydro (1)	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Connection Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
SES Concord Company L.P. (1)	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Connection Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Hollis (Plains)	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Penacook	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Danville	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Guinea Road	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Kingston	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Timber Swamp	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV
Great Bay	3 $\phi$ , 4 wire, 19.9/34.5 kV	At Delivery Point	3 $\phi$ , 4 wire, 19.9/34.5 kV

(1) 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 September 15, 2010 (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 October 1, 2010, 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 August 10, 2010.
2. Appendix B is amended as attached hereto. The amendment adds pricing associated with the results of the RFP issued by Buyer on August 10, 2010.
3. Article 2 shall be modified to add the following definitions (*unless already incorporated into Agreement*):

Amendment No. [X], dated September 15, 2010  
to Power Sales Agreement dated mmmm, dd, yyyy

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.

UNITIL ENERGY SYSTEMS, INC.

BY:

Its \_\_\_\_\_

[Company Name]

BY:

Its \_\_\_\_\_

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 **August 10, 2010**

Service Requirement	Load Asset Name and ID	Load Responsibility	Schedule 1	Schedule 2
100% UES Large Customer Group	UES Large Default Load, 10019	100%	Nov. 1, 2010	Jan. 31, 2011
25% UES Small Customer Group	UES Small Default Load, 11451, 11452	25%	Nov. 1, 2010	Oct. 31, 2011
25% UES Small Customer Group	UES Small Default Load, 11451, 11452	25%	Nov. 1, 2010	Oct. 31, 2012

Amendment No. [X], dated September 15, 2010  
to Power Sales Agreement dated mmmm, dd, yyyy

**APPENDIX B**  
**Monthly Contract Rate by Service Requirement**  
**Dollars per MWh**

For service pursuant to Buyer's RFP issued on **August 10, 2010**

Service Requirement	Nov. 2010	Dec. 2010	Jan. 2011
100% UES Large Customer Group (3 months)			

Service Requirement	Nov.-10	Dec.-10	Jan.-11	Feb. -11	Mar.-11	Apr.-11
25% UES Small Customer Group (12 months)						
	May-11	Jun.-11	Jul.-11	Aug.-11	Sep.-11	Oct.-11

Service Requirement	Nov.-10	Dec.-10	Jan.-11	Feb. -11	Mar.-11	Apr.-11
25% UES Small Customer Group (24 months)						
	May-11	Jun.-11	Jul.-11	Aug.-11	Sep.-11	Oct.-11
	Nov.-11	Dec.-11	Jan.-12	Feb. -12	Mar.-12	Apr.-12
	May-12	Jun.-12	Jul.-12	Aug.-12	Sep.-12	Oct.-12

Amendment No. [X], dated September 15, 2010  
to Power Sales Agreement dated mmmm, dd, yyyy

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
Jul-09	46,200	2,969,404	20,579,313	124,500	23,719,417
Aug-09	60,321	4,075,873	25,609,535	116,254	29,861,983
Sep-09	64,641	4,693,181	24,758,410	124,561	29,640,793
Oct-09	51,760	4,384,999	22,982,268	131,378	27,550,404
Nov-09	75,425	4,236,124	22,613,600	121,259	27,046,408
Dec-09	74,000	4,748,182	23,224,599	138,856	28,185,637
Jan-10	144,826	5,811,224	23,282,497	184,862	29,423,409
Feb-10	399,286	5,559,584	22,906,266	160,905	29,026,040
Mar-10	330,571	5,306,658	21,823,475	165,668	27,626,371
Apr-10	260,953	5,932,133	24,092,687	180,503	30,466,276
May-10	201,284	5,585,564	22,698,064	175,182	28,660,094
Jun-10	157,196	6,331,077	26,699,373	199,196	33,386,842

RETAIL SALES (kWh) by CUSTOMER CLASS  
Total Sales

Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Jul-09	39,487,448	30,258,996	31,048,428	785,781	101,580,653
Aug-09	45,694,434	32,412,156	32,371,261	754,634	111,232,486
Sep-09	43,197,838	31,253,101	31,169,381	742,015	106,362,335
Oct-09	35,172,516	26,863,110	28,729,567	761,003	91,526,196
Nov-09	35,880,892	25,482,064	28,037,649	701,170	90,101,775
Dec-09	41,630,125	27,214,356	28,372,560	744,582	97,961,623
Jan-10	52,034,217	31,417,267	28,962,938	781,671	113,196,093
Feb-10	41,734,628	27,335,060	27,583,716	679,553	97,332,957
Mar-10	37,052,932	25,613,525	26,369,617	683,355	89,719,429
Apr-10	38,742,368	27,901,591	29,469,447	760,832	96,874,237
May-10	33,658,032	26,346,840	27,685,686	729,045	88,419,604
Jun-10	36,833,169	28,358,117	31,940,278	716,118	97,847,682

RETAIL SALES (kWh) by CUSTOMER CLASS  
Competitive Generation Sales as a Percentage of Total Sales

Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Jul-09	0.1%	9.8%	66.3%	15.8%	23.4%
Aug-09	0.1%	12.6%	79.1%	15.4%	26.8%
Sep-09	0.1%	15.0%	79.4%	16.8%	27.9%
Oct-09	0.1%	16.3%	80.0%	17.3%	30.1%
Nov-09	0.2%	16.6%	80.7%	17.3%	30.0%
Dec-09	0.2%	17.4%	81.9%	18.6%	28.8%
Jan-10	0.3%	18.5%	80.4%	23.6%	26.0%
Feb-10	1.0%	20.3%	83.0%	23.7%	29.8%
Mar-10	0.9%	20.7%	82.8%	24.2%	30.8%
Apr-10	0.7%	21.3%	81.8%	23.7%	31.4%
May-10	0.6%	21.2%	82.0%	24.0%	32.4%
Jun-10	0.4%	22.3%	83.6%	27.8%	34.1%

Unitil Energy Systems, Inc.  
Customer Migration Report

CUSTOMER COUNT by CLASS  
Customers Served by Competitive Generation

Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Jul-09	1	196	86	50	333
Aug-09	16	283	99	65	463
Sep-09	16	317	99	71	503
Oct-09	24	376	98	75	573
Nov-09	27	391	98	77	593
Dec-09	28	419	99	82	628
Jan-10	85	428	97	87	697
Feb-10	120	490	100	96	806
Mar-10	124	488	101	97	810
Apr-10	123	509	102	98	832
May-10	123	536	105	100	864
Jun-10	123	568	105	103	899

Total Customers

Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Jul-09	63,765	10,831	151	1,832	76,579
Aug-09	63,858	10,828	152	1,828	76,666
Sep-09	63,819	10,810	151	1,820	76,600
Oct-09	63,581	10,882	158	1,823	76,444
Nov-09	63,480	10,774	151	1,819	76,224
Dec-09	63,482	10,787	148	1,812	76,229
Jan-10	63,280	10,789	149	1,814	76,032
Feb-10	63,340	10,791	148	1,813	76,092
Mar-10	63,437	10,818	149	1,813	76,217
Apr-10	63,614	10,845	149	1,811	76,419
May-10	63,804	10,862	149	1,810	76,625
Jun-10	63,815	10,866	152	1,806	76,639

CUSTOMER COUNT by CLASS  
Percentage of Customers Served by Competitive Generation

Month	DOMESTIC	REGULAR GENERAL	LARGE GENERAL	OUTDOOR LIGHTING	TOTAL
Jul-09	0.0%	1.8%	57.0%	2.7%	0.4%
Aug-09	0.0%	2.6%	65.1%	3.6%	0.6%
Sep-09	0.0%	2.9%	65.6%	3.9%	0.7%
Oct-09	0.0%	3.5%	62.0%	4.1%	0.7%
Nov-09	0.0%	3.6%	64.9%	4.2%	0.8%
Dec-09	0.0%	3.9%	66.9%	4.5%	0.8%
Jan-10	0.1%	4.0%	65.1%	4.8%	0.9%
Feb-10	0.2%	4.5%	67.6%	5.3%	1.1%
Mar-10	0.2%	4.5%	67.8%	5.4%	1.1%
Apr-10	0.2%	4.7%	68.5%	5.4%	1.1%
May-10	0.2%	4.9%	70.5%	5.5%	1.1%
Jun-10	0.2%	5.2%	69.1%	5.7%	1.2%

UES Default Service RFP Issued August 10, 2010  
 For Loads to be Served beginning November 1, 2010  
 RPS Compliance Cost Estimates, Non-G1 Customers

**RPS Obligation**

Year	Month	Class I	Class II	Class III	Class IV
2010	Nov-10	1.0%	0.04%	5.5%	1.0%
2010	Dec-10	1.0%	0.04%	5.5%	1.0%
2011	Jan-11	2.0%	0.08%	6.5%	1.0%
2011	Feb-11	2.0%	0.08%	6.5%	1.0%
2011	Mar-11	2.0%	0.08%	6.5%	1.0%
2011	Apr-11	2.0%	0.08%	6.5%	1.0%
2011	May-11	2.0%	0.08%	6.5%	1.0%
2011	Jun-11	2.0%	0.08%	6.5%	1.0%
2011	Jul-11	2.0%	0.08%	6.5%	1.0%
2011	Aug-11	2.0%	0.08%	6.5%	1.0%
2011	Sep-11	2.0%	0.08%	6.5%	1.0%
2011	Oct-11	2.0%	0.08%	6.5%	1.0%
2011	Nov-11	2.0%	0.08%	6.5%	1.0%
2011	Dec-11	2.0%	0.08%	6.5%	1.0%
2012	Jan-12	3.0%	0.15%	6.5%	1.0%
2012	Feb-12	3.0%	0.15%	6.5%	1.0%
2012	Mar-12	3.0%	0.15%	6.5%	1.0%
2012	Apr-12	3.0%	0.15%	6.5%	1.0%
2012	May-12	3.0%	0.15%	6.5%	1.0%
2012	Jun-12	3.0%	0.15%	6.5%	1.0%
2012	Jul-12	3.0%	0.15%	6.5%	1.0%
2012	Aug-12	3.0%	0.15%	6.5%	1.0%
2012	Sep-12	3.0%	0.15%	6.5%	1.0%
2012	Oct-12	3.0%	0.15%	6.5%	1.0%

**Market Price Assumptions**

Class I	Class II	Class III	Class IV
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
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\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00

**Non-G1 Customer Costs**

G1 Sales (MWH)	Class I	Class II	Class III	Class IV	RPS Cost	Cost \$/MWH
58,657	\$ 11,731	\$ 1,173	\$ 80,654	\$ 14,664	\$ 108,223	\$ 1.85
69,601	\$ 13,920	\$ 1,392	\$ 95,702	\$ 17,400	\$ 128,414	\$ 1.85
74,581	\$ 29,833	\$ 2,983	\$ 121,195	\$ 18,645	\$ 172,656	\$ 2.32
64,946	\$ 25,979	\$ 2,598	\$ 105,538	\$ 16,237	\$ 150,351	\$ 2.32
63,902	\$ 25,561	\$ 2,556	\$ 103,840	\$ 15,975	\$ 147,933	\$ 2.32
56,874	\$ 22,750	\$ 2,275	\$ 92,420	\$ 14,218	\$ 131,663	\$ 2.32
57,083	\$ 22,833	\$ 2,283	\$ 92,761	\$ 14,271	\$ 132,148	\$ 2.32
65,253	\$ 26,101	\$ 2,610	\$ 106,035	\$ 16,313	\$ 151,060	\$ 2.32
78,388	\$ 31,355	\$ 3,136	\$ 127,381	\$ 19,597	\$ 181,469	\$ 2.32
74,920	\$ 29,968	\$ 2,997	\$ 121,745	\$ 18,730	\$ 173,440	\$ 2.32
62,447	\$ 24,979	\$ 2,498	\$ 101,476	\$ 15,612	\$ 144,564	\$ 2.32
62,270	\$ 24,908	\$ 2,491	\$ 101,188	\$ 15,567	\$ 144,154	\$ 2.32
62,703	\$ 25,081	\$ 2,508	\$ 101,892	\$ 15,676	\$ 145,157	\$ 2.32
69,112	\$ 27,645	\$ 2,764	\$ 112,307	\$ 17,278	\$ 159,995	\$ 2.32
76,288	\$ 45,773	\$ 5,722	\$ 123,967	\$ 19,072	\$ 194,533	\$ 2.55
68,525	\$ 41,115	\$ 5,139	\$ 111,353	\$ 17,131	\$ 174,738	\$ 2.55
65,069	\$ 39,041	\$ 4,880	\$ 105,736	\$ 16,267	\$ 165,925	\$ 2.55
58,014	\$ 34,808	\$ 4,351	\$ 94,272	\$ 14,503	\$ 147,935	\$ 2.55
58,215	\$ 34,929	\$ 4,366	\$ 94,599	\$ 14,554	\$ 148,447	\$ 2.55
66,460	\$ 39,876	\$ 4,984	\$ 107,997	\$ 16,615	\$ 169,472	\$ 2.55
79,761	\$ 47,856	\$ 5,982	\$ 129,611	\$ 19,940	\$ 203,390	\$ 2.55
76,296	\$ 45,778	\$ 5,722	\$ 123,981	\$ 19,074	\$ 194,555	\$ 2.55
63,653	\$ 38,192	\$ 4,774	\$ 103,436	\$ 15,913	\$ 162,315	\$ 2.55
63,465	\$ 38,079	\$ 4,760	\$ 103,130	\$ 15,866	\$ 161,834	\$ 2.55

UES Default Service RFP Issued August 10, 2010  
 For Loads to be Served beginning November 1, 2010  
 RPS Compliance Cost Estimates, G1 Customers

**RPS Obligation**

Year	Month	Class I	Class II	Class III	Class IV
2010	Nov-10	1.0%	0.04%	5.5%	1.0%
2010	Dec-10	1.0%	0.04%	5.5%	1.0%
2011	Jan-11	2.0%	0.08%	6.5%	1.0%
2011	Feb-11	2.0%	0.08%	6.5%	1.0%
2011	Mar-11	2.0%	0.08%	6.5%	1.0%
2011	Apr-11	2.0%	0.08%	6.5%	1.0%
2011	May-11	2.0%	0.08%	6.5%	1.0%
2011	Jun-11	2.0%	0.08%	6.5%	1.0%
2011	Jul-11	2.0%	0.08%	6.5%	1.0%

**Market Price Assumptions**

Class I	Class II	Class III	Class IV
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00
\$ 20.00	\$ 50.00	\$ 25.00	\$ 25.00

**G1 Customer Costs**

G1 Sales (MWH)	Class I	Class II	Class III	Class IV	RPS Cost	Cost \$/MWH
4,901	\$ 980	\$ 98	\$ 6,738	\$ 1,225	\$ 9,041	\$ 1.85
5,235	\$ 1,047	\$ 105	\$ 7,199	\$ 1,309	\$ 9,659	\$ 1.85
5,362	\$ 2,145	\$ 214	\$ 8,714	\$ 1,341	\$ 12,413	\$ 2.32
5,015	\$ 2,006	\$ 201	\$ 8,150	\$ 1,254	\$ 11,611	\$ 2.32
5,147	\$ 2,059	\$ 206	\$ 8,364	\$ 1,287	\$ 11,915	\$ 2.32
5,169	\$ 2,068	\$ 207	\$ 8,400	\$ 1,292	\$ 11,966	\$ 2.32
5,590	\$ 2,236	\$ 224	\$ 9,084	\$ 1,398	\$ 12,942	\$ 2.32
5,456	\$ 2,182	\$ 218	\$ 8,866	\$ 1,364	\$ 12,630	\$ 2.32
6,418	\$ 2,567	\$ 257	\$ 10,429	\$ 1,605	\$ 14,858	\$ 2.32

UES Default Service RFP Issued August 10, 2010  
 For Loads to be Served beginning November 1, 2010  
 Historical Pricing by Customer Group, No Longer Confidential\*

	<b>Non-G1 Purchases (MWH)</b>	<b>Wtd Avg Price</b>	<b>Change Prior Period</b>	<b>Change Prior Year</b>	<b>G1 Purchases (MWH)</b>	<b>Wtd Avg Price</b>	<b>Change Prior Period</b>	<b>Change Prior Year</b>
May-06	70,305				15,726			
Jun-06	79,123				17,324	\$ 84.62		
Jul-06	95,779	\$ 93.95			18,379			
Aug-06	82,034				17,441			
Sep-06	65,740				16,173	\$ 82.78	-2.2%	
Oct-06	66,306				15,199			
Nov-06	67,743				13,804			
Dec-06	77,648				12,696	\$ 95.69	15.6%	
Jan-07	79,401	\$ 105.15	11.9%		12,174			
Feb-07	73,355				10,815			
Mar-07	71,776				10,958	\$ 94.94	-0.8%	
Apr-07	64,124				7,741			
May-07	65,126				8,858			
Jun-07	72,191				11,158	\$ 85.15	-10.3%	0.6%
Jul-07	81,556	\$ 89.53	-14.9%	-4.7%	11,131			
Aug-07	85,025				10,064			
Sep-07	68,290				8,401	\$ 91.56	7.5%	10.6%
Oct-07	64,828				8,207			
Nov-07	68,609				7,640			
Dec-07	81,067				7,868	\$ 85.77	-6.3%	-10.4%
Jan-08	77,974	\$ 94.47	5.5%	-10.2%	7,957			
Feb-08	71,687				7,374			
Mar-08	72,906				7,422	\$ 86.43	0.8%	-9.0%
Apr-08	62,570				7,298			
May-08	63,019				7,666			
Jun-08	73,166				9,872	\$ 110.64	28.0%	29.9%
Jul-08	88,166	\$ 95.33	0.9%	6.5%	14,280			
Aug-08	77,703				13,212			
Sep-08	68,822				12,215	\$ 135.08	22.1%	47.5%
Oct-08	67,104				11,353			
Nov-08	70,542				10,565			
Dec-08	75,622				10,122	\$ 97.28	-28.0%	13.4%
Jan-09	84,921	\$ 104.00	9.1%	10.1%	9,764			
Feb-09	69,604				9,217			
Mar-09	71,707				9,559	\$ 87.50	-10.1%	1.2%
Apr-09	62,159				9,480			
May-09	62,509				10,271			
Jun-09	64,376				10,605	\$ 63.24	-27.7%	-42.8%
Jul-09	74,365	\$ 79.09	-23.9%	-17.0%	10,233			
Aug-09	84,233				7,197			
Sep-09	61,898				6,264	\$ 61.48	-2.8%	-54.5%
Oct-09	64,026				6,046			
Nov-09	62,674				5,874			
Dec-09	78,383				5,714	\$ 71.42	16.2%	-26.6%
Jan-10	76,784	\$ 82.32	4.1%	-20.8%	5,466			
Feb-10	65,710				4,644			
Mar-10	71,449				4,663	\$ 77.63	8.7%	-11.3%
Apr-10	58,005				5,090			

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

UES Default Service RFP Issued August 10, 2010  
 For Loads to be Served beginning November 1, 2010  
 Renewable Source Option Charge (RSOC) Rate Calculation and Estimated Bill Impacts

*Calculation Class I and Class II REC Proportional Shares*

Year	Month	Class I RPS Req	Class II RPS Req	Total RPS Req	Class I Share	Class II Share	Total Shares
2010	Nov-10	1.00%	0.04%	1.04%	96.15%	3.85%	100.00%
2010	Dec-10	1.00%	0.04%	1.04%	96.15%	3.85%	100.00%
2011	Jan-11	2.00%	0.08%	2.08%	96.15%	3.85%	100.00%
2011	Feb-11	2.00%	0.08%	2.08%	96.15%	3.85%	100.00%
2011	Mar-11	2.00%	0.08%	2.08%	96.15%	3.85%	100.00%
2011	Apr-11	2.00%	0.08%	2.08%	96.15%	3.85%	100.00%

*Calculation of Renewable Source Option Charges (RSOC)*

	Class I	Class II	Combined
% Total RPS Obligations for period	96.15%	3.85%	100.00%
Estimated REC cost, \$/MWh	\$20.00	\$50.00	\$21.15
Estimated REC Cost, \$/kWh			\$0.02115
<b>Renewable Source Option Charge, 25% Plan (\$/kWh)</b>			<b>\$0.00529</b>
<b>Renewable Source Option Charge, 50% Plan (\$/kWh)</b>			<b>\$0.01058</b>
<b>Renewable Source Option Charge, 100% Plan (\$/kWh)</b>			<b>\$0.02115</b>

*Calculation of Monthly Bill Impacts*

	Monthly kWh	Monthly Bill Impact		
		25% Option	50% Option	100% Option
Renewable Source Option Charge		\$0.00529	\$0.01058	\$0.02115
<b>Residential, mean</b>	662	\$3.50	\$7.00	\$14.00
<b>Residential, median</b>	553	\$2.92	\$5.85	\$11.70
<b>Small Business</b>	3,000	\$15.87	\$31.73	\$63.46

**UNITIL ENERGY SYSTEMS, INC.**

**DIRECT TESTIMONY OF  
LINDA S. MCNAMARA**

**New Hampshire Public Utilities Commission**

**Docket No. DE 10-028**

**September 17, 2010**

## **TABLE OF CONTENTS**

<b>I. INTRODUCTION</b>	<b>Page 1</b>
<b>II. PURPOSE OF TESTIMONY</b>	<b>Page 1</b>
<b>III. RETAIL RATE CALCULATIONS</b>	<b>Page 2</b>
<b>IV. BILL IMPACTS</b>	<b>Page 12</b>
<b>V. CONCLUSION</b>	<b>Page 13</b>

## **LIST OF SCHEDULES**

**Schedule LSM-1: Redline Tariffs**

**Schedule LSM-2: 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**

**Schedule LSM-5: G1 Class Retail Rate Calculations - Renewable Portfolio  
Standard Charge**

**Schedule LSM-6: Annual Update to Internal Administrative Costs**

**Schedule LSM-7: Class Bill Impacts**

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 I at Unitol Service Corp. ("USC"), which  
8 provides centralized management and administrative services to all Unitol  
9 Corporation's affiliates including Unitol Energy Systems, Inc. ("UES").

10

11 **Q. Please describe your business and educational background.**

12 A. In 1994 I graduated *cum laude* 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?**

1 A. The purpose of my testimony is to present and explain the proposed changes to  
2 UES' Default Service Charge ("DSC") effective November 1, 2010, as reflected  
3 in the redline tariffs provided as Schedule LSM-1.  
4

5 **III. RETAIL RATE CALCULATIONS**

6 **Q. What is the proposed Non-G1 Class DSC?**

7 A. As shown on Schedule LSM-1, Page 1, the proposed Non-G1 Fixed DSC is  
8 \$0.07899 per kWh for the Non-G1 Class for the period November 1, 2010  
9 through April 30, 2011. The proposed Non-G1 Variable DSC for this same  
10 period is also shown on this page. The proposed Non-G1 class Fixed DSC has  
11 also been incorporated into the Summary of Low-Income Electric Assistance  
12 Program Discounts, shown on Page 3 of Schedule LSM-1.  
13

14 The proposed DSC are comprised of two components, as shown on Schedule  
15 LSM-1, Page 1: A Power Supply Charge and a Renewable Portfolio Standard  
16 ("RPS") Charge.  
17

18 **Q. What is the proposed Power Supply Charge and RPS Charge?**

19 A. For the period November 1, 2010 through April 30, 2011, the proposed Non-G1  
20 Fixed Power Supply Charge is \$0.07686 per kWh and the proposed Non-G1  
21 Fixed RPS Charge is \$0.00213. Both of these figures, as well as the variable  
22 amounts for the same period, are shown on Schedule LSM-1, Page 1.

1

2 **Q. How does this rate compare to the current rate?**

3 A. The Non-G1 Fixed DSC of \$0.07899 per kWh is a decrease of \$0.00590 per kWh  
4 from the current DSC of \$0.08489 per kWh. This decrease reflects lower contract  
5 costs for the period November 1, 2010 through April 30, 2011 compared to the  
6 contract costs for the current period May 1, 2010 through October 31, 2010.

7

8 **Q. Please describe the calculation of the Non-G1 class DSC.**

9 A. The rate calculations for the Non-G1 class Power Supply Charges, Fixed and  
10 Variable, are provided on Schedule LSM-2, Page 1. The rate calculations for the  
11 Non-G1 class RPS Charges, Fixed and Variable, are provided on Schedule LSM-  
12 3, Page 1. Both charges are calculated in the same manner.

13

14 The Variable Charge is calculated by dividing the total costs for the month,  
15 including a partial reconciliation of costs and revenues through January 31, 2010<sup>1</sup>,

---

<sup>1</sup> In its March 12, 2010 filing, UES provided the Non-G1 Class Power Supply Charge reconciliation balance as of January 31, 2010, as adjusted, in the amount of (\$224,673). UES apportioned this balance based on kWh over the twelve month period May 2010 through April 2011 as follows: (\$113,347) in May-October 2010 and (\$111,325) in November 2010-April 2011. As shown on Schedule LSM-2, Page 1, the reconciliation amount used in this filing is (\$111,325). Also in its March 12, 2010 filing, UES provided the Non-G1 Class RPS Charge reconciliation balance as of January 31, 2010, as adjusted, in the amount of \$21,646. UES apportioned this

1 by the estimated monthly Non-G1 kWh purchases. An estimated loss factor of  
2 6.4% is then added to arrive at the proposed retail Variable Charges. The Fixed  
3 Charge is calculated in a similar manner, except that the calculation is based on  
4 totals for the entire six month period.

5

6 **Q. Have you provided support for the total forecast costs shown on Page 1,**  
7 **line 2 of Schedule LSM-2?**

8 A. The details of forecasted costs for the period November 2010 through April  
9 2011 are provided on Schedule LSM-2, Page 2. Line items for the various  
10 costs included in default service are shown and include: Total Non-G1 Class  
11 DS Supplier Charges, GIS Support Payments, Supply Related Working  
12 Capital, Provision for Uncollected Accounts, Internal Company  
13 Administrative Costs, Legal Charges, and Consulting Outside Service  
14 Charges.

15

16 **Q. Have you provided support for the total forecast costs shown on Page 1,**  
17 **line 2 of Schedule LSM-3?**

---

balance based on kWh over the twelve month period May 2010 through April 2011 as follows:  
\$10,921 in May-October 2010 and \$10,726 in November 2010-April 2011. As shown on  
Schedule LSM-2, Page 1, the reconciliation amount used in this filing is \$10,726.

1 A. The details of forecasted costs for the period November 2010 through April  
2 2011 are provided on Schedule LSM-3, Page 2. Costs include Renewable  
3 Energy Credits (“RECs”) and the associated working capital.  
4

5 **Q. How is working capital calculated?**

6 A. Working capital included in the Power Supply Charge equals the sum of  
7 working capital for Total Non-G1 Class DS Supplier Charges plus GIS  
8 Support Payments, as shown on Schedule LSM-2, Page 2. It is calculated by  
9 multiplying the product of Total Non-G1 Class DS Supplier Charges plus GIS  
10 Support Payments and the number of days lag divided by 365 days (i.e. the  
11 working capital requirement) by the prime rate.  
12

13 The calculation of working capital for RECs is included in the RPS Charge  
14 and is shown on Schedule LSM-3, Page 2. It is calculated by multiplying the  
15 product of RECs and the number of days lead divided by 365 days (i.e. the  
16 working capital requirement) by the prime rate.  
17

18 The calculation of working capital included in the Power Supply Charge and  
19 the RPS Charge both rely on the results of the 2009 Default Service and  
20 Renewable Energy Credits Lead Lag Study. The Non-G1 class Power Supply  
21 Charge working capital calculation uses 15.90 days and the Non-G1 class RPS  
22 Charge working capital calculation uses (301.67) days.

1

2 **Q. How is the Provision for Uncollected Accounts shown on Schedule LSM-**  
3 **2 determined?**

4 A. As ordered as part of UES' last default service filing, UES, Staff, and with  
5 notice to the OCA, were required to meet prior to the next default service  
6 filing to discuss the allocation of uncollected costs to the Non-G1 and G1  
7 customer classes and present further information, including proposed revised  
8 tariffs if appropriate, at or before the next default service hearing.

9

10 As directed, UES and Staff<sup>2</sup> met and discussed this matter. Currently, UES  
11 allocates net uncollected accounts to the Non-G1 and G1 classes based on  
12 each class's default service kWh billed each month. Beginning November 1,  
13 2010, UES and Staff recommend that UES charge the monthly write-offs of  
14 uncollected accounts to Non-G1 and G1 default service costs based on the  
15 actual gross default service uncollected accounts by class. Any recoveries  
16 would be allocated between Non-G1 and G1 default service, with the  
17 allocation also based on the monthly gross write-off amounts. A letter  
18 communicating this proposal was filed with the Commission on September 3,  
19 2010.

20

---

<sup>2</sup> Notice of the meeting was provided to the OCA, which chose not to participate.

1 **Q. Has UES presented a tariff reflecting this change?**

2 A. Yes. A redline Schedule DS, reflecting this revision, is provided as Schedule  
3 LSM-1, Page 4.

4  
5 **Q. Has UES included its annual update to internal company administrative  
6 costs associated with providing default service?**

7 A. Yes. The updated internal company administrative costs associated with  
8 providing default service proposed for effect November 1, 2010 are provided  
9 on Schedule LSM-6. Pages 1 and 2 of Schedule LSM-6 are formatted  
10 identically to those submitted as part of the update last year.

11  
12 The Settlement Agreement in DE 05-064 allows UES to update these costs  
13 annually based on changes to labor costs and associated overheads. The labor  
14 hours allocated to DS reflect test year values and are not adjusted. UES has  
15 used an overhead rate of 95% based on the average for calendar year 2009.

16 The updated labor costs by department are detailed on Schedule LSM-6, Page  
17 2 of 2.

18  
19 As shown on Page 1 of 2, the revised internal administrative costs associated  
20 with providing DS are \$60,373. \$23,991 of that amount is attributable to the  
21 Non-G1 class and \$36,382 is attributable to the G1 class. The current internal

1 administrative costs associated with providing DS are \$63,536, with \$25,417  
2 attributable to the Non-G1 class and \$38,119 attributable to the G1 class.

3

4 **Q. What is the proposed G1 Class DSC?**

5 A. Schedule LSM-1, Page 2, shows the proposed G1 Variable DSC of \$0.06652 per  
6 kWh in November 2010, \$0.07273 per kWh in December 2010, and \$0.07963 per  
7 kWh in January 2011. There is no fixed option DSC for the G1 class.

8

9 The proposed DSC are comprised of two componets, as shown on Schedule LSM-  
10 1, Page 2: A Power Supply Charge and a Renewable Portfolio Standard (“RPS”)  
11 Charge.

12

13 **Q. What is the proposed Power Supply Charge and RPS Charge?**

14 A. Schedule LSM-1, Page 2, shows the proposed G1 Variable Power Supply Charges  
15 of \$0.06397 per kWh in November 2010, \$0.07018 per kWh in December 2010,  
16 and \$0.07663 per kWh in January 2011.

17

18 Also shown on Schedule LSM-1, Page 2, is the proposed G1 Variable RPS  
19 Charge of \$0.00255 per kWh in November and December 2010, and \$0.00300 per  
20 kWh in January 2011.

21

22 **Q. How do the G1 DSC compare to the current rate?**

1 A. The current DSC, based on a simple three-month average, is \$0.06697 per kWh.  
2 The proposed rate, based on a simple three-month average, is \$0.07296 per kWh.  
3 This is an increase of \$0.00599 per kWh, on average, from the current rate. The  
4 increase reflects current market prices.

5

6 **Q. Please describe the calculation of the G1 class DSC.**

7 A. The rate calculations for the Variable Power Supply Charges are provided on  
8 Schedule LSM-4, Page 1. The rate calculations for the Variable RPS Charges are  
9 provided on Schedule LSM-5, Page 1. Both charges are calculated in the same  
10 manner.

11

12 The Variable Charge is calculated by dividing the costs for each month, including  
13 a partial reconciliation of costs and revenues through January 31, 2010<sup>3</sup>, by the

---

<sup>3</sup> In its March 12, 2010 filing, UES provided the G1 Class Power Supply Charge reconciliation balance as of January 31, 2010, as adjusted, in the amount of (\$32,250). UES apportioned this balance based on kWh over the twelve month period May 2010 through April 2011 as follows: (\$8,550) in May-July 2010, (\$8,504) in August-October 2010, (\$7,612) in November 2010-January 2011, and (\$7,583) in February-April 2011. As shown on Schedule LSM-4, Page 1, the reconciliation amount used in this filing is (\$7,612). Also in its March 12, 2010 filing, UES provided the G1 Class RPS Charge reconciliation balance as of January 31, 2010, as adjusted, in the amount of \$49,175. UES apportioned this balance based on kWh over the twelve month period May 2010 through April 2011 as follows: \$13,038 in May-July 2010,

1 estimated G1 kWh purchases for the corresponding month. An estimated loss  
2 factor of 4.591% is then added to arrive at the proposed retail Variable Charges.

3

4 **Q. Have you provided support for the total forecast costs shown on Page 1,**  
5 **line 2 of Schedule LSM-4?**

6 A. The details of forecasted costs included in the Power Supply Charge for the  
7 period November 2010 through January 2011 are provided on Schedule LSM-  
8 4, Page 2. Line items for the various costs included in default service are  
9 shown and include: Total G1 Class DS Supplier Charges, GIS Support  
10 Payments, Supply Related Working Capital, Provision for Uncollected  
11 Accounts, Internal Company Administrative Costs, Legal Charges, and  
12 Consulting Outside Service Charges.

13

14 **Q. Have you provided support for the total forecast costs shown on Page 1,**  
15 **line 2 of Schedule LSM-5?**

16 A. The details of forecasted costs included in the RPS Charge for the period  
17 November 2010 through January 2011 are provided on Schedule LSM-5, Page

---

\$12,967 in August-October 2010, \$11,608 in November 2010-January 2011, and \$11,563 in  
February-April 2011. As shown on Schedule LSM-5, Page 1, the reconciliation amount used in  
this filing is \$11,608.

1           2. Costs include Renewable Energy Credits (“RECs”) and the associated  
2           Working Capital.

3  
4   **Q.   How is working capital calculated?**

5   A.   Working capital included in the Power Supply Charge equals the sum of  
6           working capital for Total G1 Class DS Supplier Charges plus GIS Support  
7           Payments, as shown on Schedule LSM-4, Page 2. It is calculated by  
8           multiplying the product of Total G1 Class DS Supplier Charges plus GIS  
9           Support Payments and the number of days lag divided by 365 days (i.e. the  
10          working capital requirement) by the prime rate.

11  
12          The calculation of working capital for RECs is included in the RPS Charge  
13          and is shown on Schedule LSM-5, Page 2. It is calculated by multiplying the  
14          product of RECs and the number of days lead divided by 365 days (i.e. the  
15          working capital requirement) by the prime rate.

16  
17          The calculation of working capital included in the Power Supply Charge and  
18          the RPS Charge both rely on the results of the 2009 Default Service and  
19          Renewable Energy Credits Lead Lag Study. The G1 class Power Supply  
20          Charge working capital calculation uses 13.72 days and the G1 class RPS  
21          Charge working capital calculation uses (297.66) days.

22

1 **IV. BILL IMPACTS**

2 **Q. Have you included any bill impacts associated with the proposed DSC rate**  
3 **changes?**

4 A. Typical bill impacts as a result of changes to the DSC have been provided in  
5 Schedule LSM-7.

6

7 Pages 1 through 3 provide a table comparing the existing rates to the proposed  
8 rates for all the rate classes. These pages also show the impact on a typical bill  
9 for each class in order to identify the effect of each rate component on a typical  
10 bill.

11

12 Page 4 shows bill impacts to the residential class based on the mean and median  
13 use. Page 4 is provided in a format similar to Pages 1 through 3.

14

15 Page 5 provides the overall average class bill impacts as a result of changes to the  
16 DSC. As shown, for customers on Default Service, the residential class will  
17 decrease about 4.1%, general service will decrease about 4.2%, large general  
18 service will increase about 5.5% and outdoor lighting will decrease about 2.4%.

19

20 Pages 6 through 11 of Schedule LSM-7 provide typical bill impacts for all classes  
21 for a range of usage levels.

22

1 V. CONCLUSION

2 Q. Does that conclude your testimony?

3 A. Yes, it does.

**CALCULATION OF THE DEFAULT SERVICE CHARGE**

(R)

<b>Non-G1 Class Default Service:</b>	<b>May-10</b>	<b>Jun-10</b>	<b>Jul-10</b>	<b>Aug-10</b>	<b>Sep-10</b>	<b>Oct-10</b>	<b>Total</b>
<b>Power Supply Charge</b>							
1 Reconciliation	(\$16,099)	(\$18,428)	(\$21,804)	(\$21,688)	(\$17,803)	(\$17,524)	(\$113,347)
2 Total Costs	<u>\$4,721,482</u>	<u>\$5,530,518</u>	<u>\$6,830,374</u>	<u>\$6,988,403</u>	<u>\$5,299,468</u>	<u>\$5,285,776</u>	<u>\$34,656,022</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$4,705,383	\$5,512,090	\$6,808,569	\$6,966,715	\$5,281,665	\$5,268,252	\$34,542,674
4 kWh Purchases	<u>63,001,518</u>	<u>72,116,000</u>	<u>85,328,322</u>	<u>84,873,727</u>	<u>69,670,112</u>	<u>68,579,121</u>	<u>443,568,800</u>
5 Total, Before Losses (L.3 / L.4)	\$0.07469	\$0.07643	\$0.07979	\$0.08208	\$0.07581	\$0.07682	\$0.07787
6 Losses	<u>6.40%</u>						
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.07947	\$0.08133	\$0.08490	\$0.08734	\$0.08066	\$0.08174	
8 Total Retail Rate - Fixed Power Supply Charge (L.5 * (1+L.6))							\$0.08286
<b>Renewable Portfolio Standard (RPS) Charge</b>							
9 Reconciliation	\$1,551	\$1,775	\$2,101	\$2,090	\$1,715	\$1,688	\$10,921
10 Total Costs	<u>\$118,486</u>	<u>\$135,627</u>	<u>\$160,474</u>	<u>\$159,619</u>	<u>\$131,029</u>	<u>\$128,975</u>	<u>\$834,210</u>
11 Reconciliation plus Total Costs (L.9 + L.10)	\$120,037	\$137,402	\$162,575	\$161,709	\$132,744	\$130,663	\$845,131
12 kWh Purchases	<u>63,001,518</u>	<u>72,116,000</u>	<u>85,328,322</u>	<u>84,873,727</u>	<u>69,670,112</u>	<u>68,579,121</u>	<u>443,568,800</u>
13 Total, Before Losses (L.11 / L.12)	\$0.00191	\$0.00191	\$0.00191	\$0.00191	\$0.00191	\$0.00191	\$0.00191
14 Losses	<u>6.40%</u>						
15 Total Retail Rate - Variable RPS Charge (L.13 * (1+L.14))	\$0.00203	\$0.00203	\$0.00203	\$0.00203	\$0.00203	\$0.00203	
16 Total Retail Rate - Fixed RPS Charge (L.13 * (1+L.14))							\$0.00203
17 Total Retail Rate - Variable Default Service Charge (L.7 + L.15)	\$0.08150	\$0.08336	\$0.08693	\$0.08937	\$0.08269	\$0.08377	
18 Total Retail Rate - Fixed Default Service Charge (L.8+L.16)							\$0.08489

As shown on Schedule LSM-2, Page 1

<b>Non-G1 Class Default Service:</b>	<b>Nov-10</b>	<b>Dec-10</b>	<b>Jan-11</b>	<b>Feb-11</b>	<b>Mar-11</b>	<b>Apr-11</b>	<b>Total</b>
<b>Power Supply Charge</b>							
1 Reconciliation	(\$16,806)	(\$19,941)	(\$21,368)	(\$18,607)	(\$18,308)	(\$16,294)	(\$111,325)
2 Total Costs	<u>\$4,135,671</u>	<u>\$5,219,851</u>	<u>\$6,188,946</u>	<u>\$5,438,446</u>	<u>\$4,801,961</u>	<u>\$4,202,547</u>	<u>\$29,987,423</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$4,118,865	\$5,199,910	\$6,167,578	\$5,419,839	\$4,783,653	\$4,186,253	\$29,876,098
4 kWh Purchases	<u>62,435,714</u>	<u>74,085,957</u>	<u>79,386,877</u>	<u>69,129,750</u>	<u>68,017,584</u>	<u>60,536,337</u>	<u>413,592,219</u>
5 Total, Before Losses (L.3 / L.4)	\$0.06597	\$0.07019	\$0.07769	\$0.07840	\$0.07033	\$0.06915	\$0.07224
6 Losses	<u>6.40%</u>						
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.07019	\$0.07468	\$0.08266	\$0.08342	\$0.07483	\$0.07358	
8 Total Retail Rate - Fixed Power Supply Charge (L.5 * (1+L.6))							\$0.07686

As shown on Schedule LSM-3, Page 1

9 Reconciliation	\$1,619	\$1,921	\$2,059	\$1,793	\$1,764	\$1,570	\$10,726
10 Total Costs	<u>\$105,316</u>	<u>\$124,965</u>	<u>\$168,018</u>	<u>\$146,312</u>	<u>\$143,959</u>	<u>\$128,126</u>	<u>\$816,696</u>

NHPUC No. 3 - Electricity Delivery

Unitil Energy Systems, Inc.

(I)

**CALCULATION OF THE DEFAULT SERVICE CHARGE**

<b>G1 Class Default Service:</b>	<b>Aug-10</b>	<b>Sep-10</b>	<b>Oct-10</b>	<b>Total</b>	As shown on Schedule LSM-4, Page 1			
					<b>Nov-10</b>	<b>Dec-10</b>	<b>Jan-11</b>	<b>Total</b>
<b>Power Supply Charge</b>								
1 Reconciliation	(\$2,944)	(\$2,837)	(\$2,723)	(\$8,504)	(\$2,407)	(\$2,572)	(\$2,634)	(\$7,612)
2 Total Costs	\$817,627	\$668,912	\$638,455	\$2,124,994	\$315,885	\$370,011	\$413,522	\$1,099,418
3 Reconciliation plus Total Costs (L.1 + L.2)	\$814,683	\$666,075	\$635,732	\$2,116,490	\$313,478	\$367,440	\$410,888	\$1,091,806
4 kWh Purchases	11,801,216	11,375,729	10,917,662	34,094,607	5,125,497	5,475,852	5,608,358	16,209,708
5 Total, Before Losses (L.3 / L.4)	\$0.06903	\$0.05855	\$0.05823		\$0.06116	\$0.06710	\$0.07326	
6 Losses	4.591%	4.591%	4.591%		4.591%	4.591%	4.591%	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.07220	\$0.06124	\$0.06090		\$0.06397	\$0.07018	\$0.07663	
<b>Renewable Portfolio Standard (RPS) Charge</b>								
8 Reconciliation	\$4,488	\$4,327	\$4,152	\$12,967	\$3,670	\$3,921	\$4,016	\$11,608
9 Total Costs	\$20,265	\$19,534	\$18,748	\$58,547	\$8,802	\$9,403	\$12,084	\$30,290
10 Reconciliation plus Total Costs (L.8 + L.9)	\$24,754	\$23,861	\$22,900	\$71,514	\$12,472	\$13,325	\$16,101	\$41,897
11 kWh Purchases	11,801,216	11,375,729	10,917,662	34,094,607	5,125,497	5,475,852	5,608,358	16,209,708
12 Total, Before Losses (L.10 / L.11)	\$0.00210	\$0.00210	\$0.00210		\$0.00243	\$0.00243	\$0.00287	
13 Losses	4.591%	4.591%	4.591%		4.591%	4.591%	4.591%	
14 Total Retail Rate - Variable RPS Charge (L.12 * (1+L.13))	\$0.00219	\$0.00219	\$0.00219		\$0.00255	\$0.00255	\$0.00300	
15 Total Retail Rate - Variable Default Service Charge (L.7 + L.14)	\$0.07439	\$0.06343	\$0.06309		\$0.06652	\$0.07273	\$0.07963	

Authorized by NHPUC Order No. 25,116 in Case No. DE 10-028, dated June 18, 2010

Issued: September 17, 2010

Effective: November 1, 2010

Issued By: Mark H. Collin

Treasurer

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

Supplement No. 2  
 Third Second Revised Page 4  
 Superseding Second First Revised Page 4

(I)

***SUMMARY OF LOW-INCOME  
 ELECTRIC ASSISTANCE PROGRAM DISCOUNTS***

**Low-Income Electric Assistance Program (LI-EAP) Discounts for Eligible Customers**

<b><u>Rate D</u></b>					
<u>Tier</u>	<u>Percentage of Federal Poverty Guidelines</u>	<u>Discount</u>	<u>Blocks</u>	<u>LI-EAP Discount(1)</u>	<u>LI-EAP Discount(1)</u>
1	176 - 185	5%	Customer Charge	( <del>\$0.42</del> )	(\$0.42)
			First 250 kWh	( <del>\$0.00645</del> )	(\$0.00615)
			Excess 250 kWh	( <del>\$0.00670</del> )	(\$0.00640)
2	151 - 175	7%	Customer Charge	( <del>\$0.59</del> )	(\$0.59)
			First 250 kWh	( <del>\$0.00903</del> )	(\$0.00861)
			Excess 250 kWh	( <del>\$0.00938</del> )	(\$0.00896)
3	126 - 150	18%	Customer Charge	( <del>\$1.51</del> )	(\$1.51)
			First 250 kWh	( <del>\$0.02321</del> )	(\$0.02215)
			Excess 250 kWh	( <del>\$0.02411</del> )	(\$0.02305)
4	101 - 125	33%	Customer Charge	( <del>\$2.77</del> )	(\$2.77)
			First 250 kWh	( <del>\$0.04255</del> )	(\$0.04060)
			Excess 250 kWh	( <del>\$0.04420</del> )	(\$0.04225)
5	76 - 100	48%	Customer Charge	( <del>\$4.03</del> )	(\$4.03)
			First 250 kWh	( <del>\$0.06189</del> )	(\$0.05905)
			Excess 250 kWh	( <del>\$0.06429</del> )	(\$0.06145)
6	0 - 75	70%	Customer Charge	( <del>\$5.88</del> )	(\$5.88)
			First 250 kWh	( <del>\$0.09025</del> )	(\$0.08612)
			Excess 250 kWh	( <del>\$0.09375</del> )	(\$0.08962)

(1) Total utility charges from Supplement No. 2, Page 2 (excluding the Electricity Consumption Tax) plus Non-G1 class Fixed Default Service Rate multiplied by the appropriate discount.

Authorized by NHPUC Order No. ~~25,133~~ in Case No. ~~DE 10-172~~, dated ~~July 30, 2010~~

Issued: September 17, 2010 ~~July 30, 2010~~  
 Effective: November 1, 2010 ~~August 1, 2010~~

Issued By: Mark H. Collin  
 Treasurer

DEFAULT SERVICE  
SCHEDULE DS

AVAILABILITY

This Schedule is for energy supply service only. Customers taking service hereunder must also take service under one of the Company's Delivery Service Schedules.

Default Service shall be available under this Schedule to all Customers, including Customers that return to utility-provided energy supply service after receiving energy supply service from a Competitive Supplier or self-supply (available to Market Participant End Users as described in NHPUC Order No. 24,172), or those Customers whose energy to be provided by a Competitive Supplier or self-supply does not reach the Company's distribution system for any reason.

CHARACTER OF SERVICE

Electricity will be supplied with the same characteristics as specified in the applicable Delivery Service Schedules.

DEFAULT SERVICE CHARGE

The Default Service Charges ("DSC") for each class are specified on Page 74 for the Non-G1 class and Page 75 for the G1 class, Calculation of the Default Service Charge.

DEFAULT SERVICE CHARGE RECONCILIATION

The DSC shall be calculated separately for the Non-G1 (all classes except G1) and the G1 classes. The DSC for the Non-G1 class will be calculated on a six month basis and shall be offered as a fixed charge or as a variable charge, as provided below. The DSC for the G1 class will be calculated on a three month basis and shall be offered as a variable charge only, as provided below. The DSC shall consist of two separate components, a Power Supply Charge and a Renewable Portfolio Standard (RPS) charge. The Power Supply Charge shall be based on a forecast of all Default Service costs, excluding the costs associated with complying with RPS, and shall include an annual reconciliation with interest for any over- or under-recoveries occurring in the prior period. The RPS Charge shall be based on a forecast of the costs to comply with RPS and shall include an annual reconciliation with interest for any over- or under-recoveries occurring in the prior period.

Separate reconciliation of costs and revenues for the Power Supply Charge and the RPS Charge, for both the Non-G1 and G1 classes, shall be performed on an annual basis effective May 1. Default Service costs included in the Power Supply Charge shall include wholesale supplier charges and GIS support payments, internal company administrative costs, supply-related working capital, external company administrative costs, and a provision for uncollectible accounts attributed to Default Service. External company administrative costs will be directly assigned to the Non-G1 or G1 class, as applicable. Costs that are common to both classes will be allocated to those classes based on kWh sales. Costs of uncollectible accounts ~~will~~ be ~~directly assigned~~ allocated to the Non-G1 ~~or~~ and G1 classes ~~based on kWh~~. Default Service costs included in the RPS Charge shall include costs of compliance with the Renewable Portfolio Standard and associated working capital.

*Authorized by NHPUC Order No. ~~24,980~~ in Case No DE ~~09-009~~ dated ~~June 19, 2009~~*

Issued: ~~June 12, 2009~~ September 17, 2010  
Effective: ~~August 1, 2009~~ November 1, 2010

Issued by: Mark H. Collin  
Treasurer

Unitil Energy Systems, Inc.  
 Calculation of Non-G1 Class Default Service Power Supply Charge

	<u>Nov-10</u>	<u>Dec-10</u>	<u>Jan-11</u>	<u>Feb-11</u>	<u>Mar-11</u>	<u>Apr-11</u>	<u>Total</u>
1 Reconciliation (1)	(\$16,806)	(\$19,941)	(\$21,368)	(\$18,607)	(\$18,308)	(\$16,294)	(\$111,325)
2 Total Costs (Page 2)	\$4,135,671	\$5,219,851	\$6,188,946	\$5,438,446	\$4,801,961	\$4,202,547	\$29,987,423
3 Reconciliation plus Total Costs (L.1 + L.2)	\$4,118,865	\$5,199,910	\$6,167,578	\$5,419,839	\$4,783,653	\$4,186,253	\$29,876,098
4 kWh Purchases	62,435,714	74,085,957	79,386,877	69,129,750	68,017,584	60,536,337	413,592,219
5 Total, Before Losses (L.3 / L.4)	\$0.06597	\$0.07019	\$0.07769	\$0.07840	\$0.07033	\$0.06915	\$0.07224
6 Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.07019	\$0.07468	\$0.08266	\$0.08342	\$0.07483	\$0.07358	
8 Total Retail Rate - Fixed Power Supply Charge (L.5 * (1+L.6))							\$0.07686

(1) As filed in UES' March 12, 2010 Default Service filing. Power Supply Charge balance as of January 31, 2010, as adjusted, allocated between rate periods (May-October 2010 and November 2010-April 2011) and then to each month on equal per kWh basis.

Total Power Supply Charge reconciliation for May 1, 2010-April 30, 2011	(\$224,673)
Reconciliation amount for May-October 2010	(\$113,347)
Reconciliation amount for November 2010-April 2011	(\$111,325)
Total	(\$224,673)

<i>Calculation of Working Capital Supplier Charges and GIS Support Payments</i>											
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	Total Non-G1 Class DS Supplier Charges (1)	GIS Support Payments	Number of Days of Lag / 365	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	Total Costs (sum a + b + f + g + h + i + j)
Nov-10	\$4,099,373	\$539	4.36%	\$178,599	3.25%	\$5,804	\$27,955	\$1,999	\$0	\$0	\$4,135,671
Dec-10	\$5,186,573	\$640	4.36%	\$225,963	3.25%	\$7,344	\$23,296	\$1,999	\$0	\$0	\$5,219,851
Jan-11	\$6,136,804	\$685	4.36%	\$267,359	3.25%	\$8,689	\$40,768	\$1,999	\$0	\$0	\$6,188,946
Feb-11	\$5,387,454	\$597	4.36%	\$234,712	3.25%	\$7,628	\$40,768	\$1,999	\$0	\$0	\$5,438,446
Mar-11	\$4,751,878	\$587	4.36%	\$207,025	3.25%	\$6,728	\$40,768	\$1,999	\$0	\$0	\$4,801,961
Apr-11	<u>\$4,141,745</u>	<u>\$523</u>	4.36%	<u>\$180,444</u>	3.25%	<u>\$5,864</u>	<u>\$52,416</u>	<u>\$1,999</u>	<u>\$0</u>	<u>\$0</u>	<u>\$4,202,547</u>
Total	\$29,703,827	\$3,571		\$1,294,103		\$42,058	\$225,971	\$11,996	\$0	\$0	\$29,987,423

(1) Estimates based on monthly average wholesale rate times estimated monthly purchases.

Unitil Energy Systems, Inc.  
 Calculation of Non-G1 Class Default Service Renewable Portfolio Standard (RPS) Charge

Schedule LSM-3  
 Page 1 of 2

	<u>Nov-10</u> <u>Estimated</u>	<u>Dec-10</u> <u>Estimated</u>	<u>Jan-11</u> <u>Estimated</u>	<u>Feb-11</u> <u>Estimated</u>	<u>Mar-11</u> <u>Estimated</u>	<u>Apr-11</u> <u>Estimated</u>	<u>Total</u>
1 Reconciliation	\$1,619	\$1,921	\$2,059	\$1,793	\$1,764	\$1,570	\$10,726
2 Total Costs (Page 2)	<u>\$105,316</u>	<u>\$124,965</u>	<u>\$168,018</u>	<u>\$146,312</u>	<u>\$143,959</u>	<u>\$128,126</u>	<u>\$816,696</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$106,935	\$126,886	\$170,077	\$148,105	\$145,723	\$129,696	\$827,422
4 kWh Purchases	<u>62,435,714</u>	<u>74,085,957</u>	<u>79,386,877</u>	<u>69,129,750</u>	<u>68,017,584</u>	<u>60,536,337</u>	<u>413,592,219</u>
5 Total, Before Losses (L.3 / L.4)	\$0.00171	\$0.00171	\$0.00214	\$0.00214	\$0.00214	\$0.00214	\$0.00200
6 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>
7 Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6))	\$0.00182	\$0.00182	\$0.00228	\$0.00228	\$0.00228	\$0.00228	
8 Total Retail Rate - Fixed RPS Charge (L.5 * (1+L.6))							\$0.00213

(1) As filed in UES' March 12, 2010 Default Service filing. RPS Charge balance as of January 31, 2010, as adjusted, allocated between rate periods (May-October 2010 and November 2010-April 2011) and then to each month on equal per kWh basis.

Total reconciliation for May 1, 2010-April 30, 2011	\$21,646
Reconciliation amount for May-October 2010	\$10,921
Reconciliation amount for November 2010-April 2011	<u>\$10,726</u>
Total	\$21,646

	(a)	<i>Calculation of Working Capital</i>				(f)
	Renewable Energy Credits (1)	(b) Number of Days of Lag / 365	(c) Working Capital Requirement (a*b)	(d) Prime Rate	(e) Supply Related Working Capital (c * d)	Total Costs (sum a + e)
Nov-10	\$108,223	(82.65%)	(\$89,445)	3.25%	(\$2,907)	\$105,316
Dec-10	\$128,414	(82.65%)	(\$106,134)	3.25%	(\$3,449)	\$124,965
Jan-11	\$172,656	(82.65%)	(\$142,699)	3.25%	(\$4,638)	\$168,018
Feb-11	\$150,351	(82.65%)	(\$124,264)	3.25%	(\$4,039)	\$146,312
Mar-11	\$147,933	(82.65%)	(\$122,265)	3.25%	(\$3,974)	\$143,959
Apr-11	<u>\$131,663</u>	(82.65%)	<u>(\$108,818)</u>	3.25%	<u>(\$3,537)</u>	<u>\$128,126</u>
Total	\$839,239		(\$693,625)		(\$22,543)	\$816,696

(1) Schedule RSF-4.

Unitil Energy Systems, Inc.  
 Calculation of G1 Large General Service Class Default Service Power Supply Charge

Schedule LSM-4  
 Page 1 of 2

	<u>Nov-10</u> <u>Estimated</u>	<u>Dec-10</u> <u>Estimated</u>	<u>Jan-11</u> <u>Estimated</u>	<u>Total</u>
1 Reconciliation (1)	(\$2,407)	(\$2,572)	(\$2,634)	(\$7,612)
2 Total Costs (Page 2)	<u>\$315,885</u>	<u>\$370,011</u>	<u>\$413,522</u>	<u>\$1,099,418</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$313,478	\$367,440	\$410,888	\$1,091,806
4 kWh Purchases	<u>5,125,497</u>	<u>5,475,852</u>	<u>5,608,358</u>	16,209,708
5 Total, Before Losses (L.3 / L.4)	\$0.06116	\$0.06710	\$0.07326	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.06397	\$0.07018	\$0.07663	

(1) As filed in UES' March 12, 2010 Default Service filing. Power Supply Charge balance as of January 31, 2010, as adjusted, allocated between rate periods (May-July 2010, August-October 2010, November 2010-January 2011, and February-April 2011) and then to each month on equal per kWh basis.

Total Power Supply Charge reconciliation for May 1, 2010-April 30, 2011	(\$32,250)
Reconciliation amount for May-July 2010	(\$8,550)
Reconciliation amount for August-October 2010	(\$8,504)
Reconciliation amount for November 2010-January 2011	(\$7,612)
Reconciliation amount for February-April 2011	<u>(\$7,583)</u>
Total	(\$32,250)

# Redacted

Unitil Energy Systems, Inc.  
Itemized Costs for G1 Class Default Service Power Supply Charge

Schedule LSM-4  
Page 2 of 2

<i>Calculation of Working Capital Supplier Charges and GIS Support Payments</i>											
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	
Total G1 Class DS Supplier Charges (1)	GIS Support Payments	Number of Days of Lag / 365	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	Total Costs (sum a + b + f + g + h + i + j)	
Nov-10	Redacted	\$44	3.76%	Redacted	3.25%	Redacted	Redacted	\$3,032	\$0	\$0	\$315,885
Dec-10	Redacted	\$47	3.76%	Redacted	3.25%	Redacted	Redacted	\$3,032	\$0	\$0	\$370,011
Jan-11	Redacted	<u>\$48</u>	3.76%	Redacted	3.25%	Redacted	Redacted	<u>\$3,032</u>	<u>\$0</u>	<u>\$0</u>	<u>\$413,522</u>
Total	Redacted	\$140		Redacted		Redacted	Redacted	\$9,096	\$0	\$0	\$1,099,418

(1) Estimates based on monthly average wholesale rate times estimated monthly purchases.

Unitil Energy Systems, Inc.  
 Calculation of G1 Class Default Service Renewable Portfolio Standard (RPS) Charge

Schedule LSM-5  
 Page 1 of 2

	<b><u>Nov-10</u></b> <b><u>Estimated</u></b>	<b><u>Dec-10</u></b> <b><u>Estimated</u></b>	<b><u>Jan-11</u></b> <b><u>Estimated</u></b>	<b><u>Total</u></b>
1 Reconciliation (1)	\$3,670	\$3,921	\$4,016	\$11,608
2 Total Costs (Page 2)	<u>\$8,802</u>	<u>\$9,403</u>	<u>\$12,084</u>	<u>\$30,290</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$12,472	\$13,325	\$16,101	\$41,897
4 kWh Purchases	<u>5,125,497</u>	<u>5,475,852</u>	<u>5,608,358</u>	16,209,708
5 Total, Before Losses (L.3 / L.4)	\$0.00243	\$0.00243	\$0.00287	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6))	\$0.00255	\$0.00255	\$0.00300	

(1) As filed in UES' March 12, 2010 Default Service filing. RPS Charge balance as of January 31, 2010, as adjusted, allocated between rate periods (May-July 2010, August-October 2010, November 2010-January 2011, and February-April 2011) and then to each month on equal per kWh basis.

Total RPS Charge reconciliation for May 1, 2010-April 30, 2011	\$49,175
Reconciliation amount for May-July 2010	\$13,038
Reconciliation amount for August-October 2010	\$12,967
Reconciliation amount for November 2010-January 2011	\$11,608
Reconciliation amount for February-April 2011	<u>\$11,563</u>
Total	\$49,175

Unitil Energy Systems, Inc.  
Itemized Costs for G1 Class Default Service Renewable Portfolio Standard Charge

	(a)	<i>Calculation of Working Capital</i>				(f)
	Renewable Energy Credits (1)	(b) Number of Days of Lag / 365	(c) Working Capital Requirement (a*b)	(d) Prime Rate	(e) Supply Related Working Capital (c * d)	Total Costs (sum a + e)
Nov-10	\$9,041	(81.55%)	(\$7,373)	3.25%	(\$240)	\$8,802
Dec-10	\$9,659	(81.55%)	(\$7,877)	3.25%	(\$256)	\$9,403
Jan-11	<u>\$12,413</u>	(81.55%)	<u>(\$10,123)</u>	3.25%	<u>(\$329)</u>	<u>\$12,084</u>
Total	\$31,114		(\$25,374)		(\$825)	\$30,290

(1) Schedule RSF-4.

**Unitil Energy Systems, Inc.**  
**Internal Administrative Costs associated with Default Service**

		<u>G1 Class</u>	<u>Non-G1 Class</u>	<u>Total</u>	<u>Notes:</u>
<b>Energy Contracts Department:</b>					
1	Average Cost of Labor per Hour	\$36.66	\$36.66	\$36.66	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>249.4</u>	<u>150.6</u>	<u>400.0</u>	
3	Cost of Labor	\$9,143	\$5,521	\$14,664	
4	Overhead (Line 3 * Overhead rate)	<u>\$8,686</u>	<u>\$5,245</u>	<u>\$13,931</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$17,829</b></u>	<u><b>\$10,766</b></u>	<u><b>\$28,595</b></u>	
<b>Regulatory Services Department:</b>					
1	Average Cost of Labor per Hour	\$43.79	\$43.79	\$43.79	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>88.0</u>	<u>35.0</u>	<u>123.0</u>	
3	Cost of Labor	\$3,854	\$1,533	\$5,386	
4	Overhead (Line 3 * Overhead rate)	<u>\$3,661</u>	<u>\$1,456</u>	<u>\$5,117</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$7,514</b></u>	<u><b>\$2,989</b></u>	<u><b>\$10,503</b></u>	
<b>Accounts Payable Department:</b>					
1	Average Cost of Labor per Hour	\$22.24	\$22.24	\$22.24	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>6.0</u>	<u>6.0</u>	<u>12.0</u>	
3	Cost of Labor	\$133	\$133	\$267	
4	Overhead (Line 3 * Overhead rate)	<u>\$127</u>	<u>\$127</u>	<u>\$254</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$260</b></u>	<u><b>\$260</b></u>	<u><b>\$520</b></u>	
<b>General Accounting Department:</b>					
1	Average Cost of Labor per Hour	\$38.46	\$38.46	\$38.46	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>6.0</u>	<u>6.0</u>	<u>12.0</u>	
3	Cost of Labor	\$231	\$231	\$462	
4	Overhead (Line 3 * Overhead rate)	<u>\$219</u>	<u>\$219</u>	<u>\$438</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$450</b></u>	<u><b>\$450</b></u>	<u><b>\$900</b></u>	
<b>Finance Department:</b>					
1	Average Cost of Labor per Hour	\$38.58	\$38.58	\$38.58	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>26.0</u>	<u>26.0</u>	<u>52.0</u>	
3	Cost of Labor	\$1,003	\$1,003	\$2,006	
4	Overhead (Line 3 * Overhead rate)	<u>\$953</u>	<u>\$953</u>	<u>\$1,906</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$1,956</b></u>	<u><b>\$1,956</b></u>	<u><b>\$3,912</b></u>	
<b>Communications Department:</b>					
1	Average Cost of Labor per Hour	\$45.95	\$45.95	\$45.95	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>60.0</u>	<u>60.0</u>	<u>120.0</u>	
3	Cost of Labor	\$2,757	\$2,757	\$5,514	
4	Overhead (Line 3 * Overhead rate)	<u>\$2,619</u>	<u>\$2,619</u>	<u>\$5,238</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$5,376</b></u>	<u><b>\$5,376</b></u>	<u><b>\$10,752</b></u>	
<b>Business Development Department:</b>					
1	Average Cost of Labor per Hour	\$40.48	\$40.48	\$40.48	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>8.0</u>	<u>0.0</u>	<u>8.0</u>	
3	Cost of Labor	\$324	\$0	\$324	
4	Overhead (Line 3 * Overhead rate)	<u>\$308</u>	<u>\$0</u>	<u>\$308</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$631</b></u>	<u><b>\$0</b></u>	<u><b>\$631</b></u>	
<b>Information Systems Department:</b>					
1	Average Cost of Labor per Hour	\$39.79	\$39.79	\$39.79	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>3.6</u>	<u>1.4</u>	<u>5.0</u>	
3	Cost of Labor	\$143	\$56	\$199	
4	Overhead (Line 3 * Overhead rate)	<u>\$136</u>	<u>\$53</u>	<u>\$189</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$279</b></u>	<u><b>\$109</b></u>	<u><b>\$388</b></u>	
<b>Customer Service Department:</b>					
1	Average Cost of Labor per Hour	\$22.28	\$22.28	\$22.28	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>48.0</u>	<u>48.0</u>	<u>96.0</u>	
3	Cost of Labor	\$1,069	\$1,069	\$2,139	
4	Overhead (Line 3 * Overhead rate)	<u>\$1,016</u>	<u>\$1,016</u>	<u>\$2,032</u>	2
5	<b>Total Labor and Overhead Cost</b>	<u><b>\$2,085</b></u>	<u><b>\$2,085</b></u>	<u><b>\$4,171</b></u>	
<b>TOTAL ANNUAL COST</b>		<u><b>\$36,382</b></u>	<u><b>\$23,991</b></u>	<u><b>\$60,373</b></u>	

Notes:

- 1) See Schedule LSM-6, Page 2 of 2.
- 2) Based on Unitil Service Corp. overhead rate of 95% (2009 average rate).

**Unitil Service Corp.**  
**Average Cost of Labor per Hour by Department**

<u>Department</u> (a)	<u>Full Time Equivalent (1)</u> (b)	<u>Annualized Base Labor</u> (c)	<u>Open Positions</u> (d)	<u>Open Positions (2)</u> (e)	<u>Total Positions</u> (b) + (d) = (f)	<u>Total Salaries</u> (c) + (e) = (g)	<u>Avg Hrly Labor Cost (3)</u> (g) ÷ (f) ÷ 2080 = (h)
Energy Contracts	7.00	\$533,790	0.00	\$0	7.00	\$533,790	\$36.66
Regulatory / Legal	9.00	\$819,675	0.00	\$0	9.00	\$819,675	\$43.79
Accounts Payable	4.00	\$191,515	1.00	\$39,831	5.00	\$231,346	\$22.24
General Accounting	18.30 (4)	\$1,463,875	0.00	\$0	18.30	\$1,463,875	\$38.46
Finance	6.00	\$498,194	1.00	\$63,585	7.00	\$561,779	\$38.58
Communications	4.00	\$382,279	0.00	\$0	4.00	\$382,279	\$45.95
Business Development	16.00	\$1,347,150	0.00	\$0	16.00	\$1,347,150	\$40.48
Information Systems	16.00	\$1,242,527	1.00	\$164,441	17.00	\$1,406,968	\$39.79
Customer Service	48.00	\$2,250,792	4.00	\$159,324	52.00	\$2,410,116	\$22.28

(1) Annualized salaries of active employees as of January 1, 2010.

(2) Salary range midpoint of open positions as of January 1, 2010.

(3) Total Salaries ÷ Total positions ÷ (40 hours/wk \* 52 weeks/yr).

(4) Includes two part-time employees.

**Unitil Energy Systems, Inc.**  
**Typical Bill Impacts by Rate Component**

**Residential Rate D 500 kWh Bill**

	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$8.40	\$8.40	\$0.00	\$8.40	\$8.40	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge							
First 250 kWh	\$0.02248	\$0.02248	\$0.00000	\$5.62	\$5.62	\$0.00	0.0%
Excess 250 kWh	\$0.02748	\$0.02748	\$0.00000	\$6.87	\$6.87	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$8.44	\$8.44	\$0.00	0.0%
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	\$0.69	\$0.69	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$1.65	\$1.65	\$0.00	0.0%
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	<u>\$42.45</u>	<u>\$39.50</u>	<u>(\$2.95)</u>	<u>-4.0%</u>
First 250 kWh	\$0.12893	\$0.12303	(\$0.00590)				
Excess 250 kWh	\$0.13393	\$0.12803	(\$0.00590)				
Total Bill				\$74.12	\$71.17	(\$2.95)	-4.0%

\* Impacts do not include the Electricity Consumption Tax.

**Unitil Energy Systems, Inc.  
Typical Bill Impacts by Rate Component**

<b><u>Regular General G2 Quick Recovery Water Heating and Space Heating 2,000 kWh Typical Bill</u></b>							
	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$3.75	\$3.75	\$0.00	\$3.75	\$3.75	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge	\$0.02526	\$0.02526	\$0.00000	\$50.52	\$50.52	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$33.76	\$33.76	\$0.00	0.0%
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	\$2.76	\$2.76	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$6.60	\$6.60	\$0.00	0.0%
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	<u>\$169.78</u>	<u>\$157.98</u>	<u>(\$11.80)</u>	<u>-4.4%</u>
Total	\$0.13171	\$0.12581	(\$0.00590)	\$263.42	\$251.62	(\$11.80)	-4.4%
Total Bill				\$267.17	\$255.37	(\$11.80)	-4.4%

<b><u>Regular General G2 kWh Meter 125 kWh Typical Bill</u></b>							
	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$8.40	\$8.40	\$0.00	\$8.40	\$8.40	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge	\$0.03413	\$0.03413	\$0.00000	\$4.27	\$4.27	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$2.11	\$2.11	\$0.00	0.0%
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	\$0.17	\$0.17	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$0.41	\$0.41	\$0.00	0.0%
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	<u>\$10.61</u>	<u>\$9.87</u>	<u>(\$0.74)</u>	<u>-2.8%</u>
Total	\$0.14058	\$0.13468	(\$0.00590)	\$17.57	\$16.84	(\$0.74)	-2.8%
Total Bill				\$25.97	\$25.24	(\$0.74)	-2.8%

\* Impacts do not include the Electricity Consumption Tax.

**Unitil Energy Systems, Inc.**  
**Typical Bill Impacts by Rate Component**

<b>Regular General G2 Demand, 10 kW, 3,000 kWh Typical Bill</b>							
	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$11.00	\$11.00	\$0.00	\$11.00	\$11.00	\$0.00	0.0%
	<b><u>All kW</u></b>	<b><u>All kW</u></b>					
Distribution Charge	\$7.03	\$7.03	\$0.00	\$70.30	\$70.30	\$0.00	0.0%
Stranded Cost Charge	<u>\$0.24</u>	<u>\$0.24</u>	<u>\$0.00</u>	<u>\$2.40</u>	<u>\$2.40</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$7.27	\$7.27	\$0.00	\$72.70	\$72.70	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge	\$0.00438	\$0.00438	\$0.00000	\$13.14	\$13.14	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$50.64	\$50.64	\$0.00	0.0%
Stranded Cost Charge	\$0.00046	\$0.00046	\$0.00000	\$1.38	\$1.38	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$9.90	\$9.90	\$0.00	0.0%
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	<u>\$254.67</u>	<u>\$236.97</u>	<u>(\$17.70)</u>	<u>-4.3%</u>
Total	\$0.10991	\$0.10401	(\$0.00590)	\$329.73	\$312.03	(\$17.70)	-4.3%
Total Bill				\$413.43	\$395.73	(\$17.70)	-4.3%

<b>Large General - G1 550 kVa, 200,000 kWh Typical Bill</b>							
	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$108.86	\$108.86	\$0.00	\$108.86	\$108.86	\$0.00	0.0%
	<b><u>All kVa</u></b>	<b><u>All kVa</u></b>					
Distribution Charge	\$5.69	\$5.69	\$0.00	\$3,129.50	\$3,129.50	\$0.00	0.0%
Stranded Cost Charge	<u>\$0.34</u>	<u>\$0.34</u>	<u>\$0.00</u>	<u>\$187.00</u>	<u>\$187.00</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$6.03	\$6.03	\$0.00	\$3,316.50	\$3,316.50	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge	\$0.00438	\$0.00438	\$0.00000	\$876.00	\$876.00	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$3,376.00	\$3,376.00	\$0.00	0.0%
Stranded Cost Charge	\$0.00041	\$0.00041	\$0.00000	\$82.00	\$82.00	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$660.00	\$660.00	\$0.00	0.0%
Default Service Charge	<u>\$0.06697</u>	<u>\$0.07296</u>	<u>\$0.00599</u>	<u>\$13,394.00</u>	<u>\$14,592.00</u>	<u>\$1,198.00</u>	<u>5.5%</u>
Total	\$0.09194	\$0.09793	\$0.00599	\$18,388.00	\$19,586.00	\$1,198.00	5.5%
Total Bill				\$21,813.36	\$23,011.36	\$1,198.00	5.5%

\* Impacts do not include the Electricity Consumption Tax.

**Unitil Energy Systems, Inc.**  
**Typical Bill Impacts for Residential Rate Class based on Mean and Median Usage**

**Residential Rate D 645 kWh Bill - Mean Use\***

	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill**</u>	<u>As Revised Bill**</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$8.40	\$8.40	\$0.00	\$8.40	\$8.40	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge							
First 250 kWh	\$0.02248	\$0.02248	\$0.00000	\$5.62	\$5.62	\$0.00	0.0%
Excess 250 kWh	\$0.02748	\$0.02748	\$0.00000	\$10.85	\$10.85	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$10.89	\$10.89	\$0.00	0.0%
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	\$0.89	\$0.89	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.13	\$2.13	\$0.00	0.0%
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	<u>\$54.75</u>	<u>\$50.95</u>	<u>(\$3.81)</u>	<u>-4.1%</u>
First 250 kWh	\$0.12893	\$0.12303	(\$0.00590)				
Excess 250 kWh	\$0.13393	\$0.12803	(\$0.00590)				
Total Bill				\$93.53	\$89.73	(\$3.81)	-4.1%

**Residential Rate D 540 kWh Bill - Median Use\***

	8/1/2010	11/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill**</u>	<u>As Revised Bill**</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$8.40	\$8.40	\$0.00	\$8.40	\$8.40	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge							
First 250 kWh	\$0.02248	\$0.02248	\$0.00000	\$5.62	\$5.62	\$0.00	0.0%
Excess 250 kWh	\$0.02748	\$0.02748	\$0.00000	\$7.97	\$7.97	\$0.00	0.0%
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	\$9.12	\$9.12	\$0.00	0.0%
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	\$0.75	\$0.75	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$1.78	\$1.78	\$0.00	0.0%
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	<u>\$45.84</u>	<u>\$42.65</u>	<u>(\$3.19)</u>	<u>-4.0%</u>
First 250 kWh	\$0.12893	\$0.12303	(\$0.00590)				
Excess 250 kWh	\$0.13393	\$0.12803	(\$0.00590)				
Total Bill				\$79.47	\$76.29	(\$3.19)	-4.0%

\* Based on billing period January through December 2009.

\*\* Impacts do not include the Electricity Consumption Tax.

Unitil Energy Systems, Inc.  
Average Class Bill Impacts  
Due to Proposed Rate Changes Effective November 1, 2010

(A) <u>Class of Service</u>	(B) <u>Number of Customers</u>	(C) <u>Annual kWh Sales</u>	(D) <u>Annual kW / kVA Sales</u>	(E) <u>Proposed DSC Change \$</u>	(F) <u>Estimated Annual Revenue \$ Under Present Rates</u>	(G) <u>Estimated Annual Revenue \$ Under Proposed Rates</u>	(H) <u>Proposed Net Change Revenue \$</u>	(I) <u>% Change DSC Revenue</u>
Residential	738,543	486,378,217	n/a	(\$2,869,631)	\$70,499,859	\$67,630,227	(\$2,869,631)	(4.1%)
General Service	125,046	354,008,286	1,298,686	(\$2,088,649)	\$49,845,066	\$47,756,417	(\$2,088,649)	(4.2%)
Large General Service	1,822	364,679,187	996,528	\$2,184,428	\$39,566,881	\$41,751,309	\$2,184,428	5.5%
Outdoor Lighting	117,884	9,206,974	n/a	(\$54,321)	\$2,257,205	\$2,202,884	(\$54,321)	(2.4%)
Total	983,295	1,214,272,664		(\$2,828,173)	\$162,169,011	\$159,340,838	(\$2,828,173)	(1.7%)

(B), (C), (D) Test year billing determinants in DE 05-178

(E) Difference in proposed rate and current rate, times the billing determinants shown in Column (C). The proposed and current DSC for the G1 class used in this analysis are based on the average of the DSC for each 3-month period.

(F) Based on current rates times billing determinants shown in Columns (B), (C) and (D).

(G) Sum of Columns (E) and (F)

(H) Column (G) minus Column (F)

(I) Column (H) divided by Column (F)

**Unitil Energy Systems, Inc.**  
**Typical Bill Impacts - August 1, 2010 versus November 1, 2010**  
**Impacts do NOT include the Electricity Consumption Tax**  
**Impact on D Rate Customers**

<u>Average kWh</u>	<u>Total Bill Using Rates 8/1/2010</u>	<u>Total Bill Using Rates 11/1/2010</u>	<u>Total Difference</u>	<u>% Total Difference</u>
125	\$24.52	\$23.78	(\$0.74)	(3.0%)
250	\$40.63	\$39.16	(\$1.47)	(3.6%)
500	\$74.12	\$71.17	(\$2.95)	(4.0%)
600	\$87.51	\$83.97	(\$3.54)	(4.0%)
750	\$107.60	\$103.17	(\$4.42)	(4.1%)
1,000	\$141.08	\$135.18	(\$5.90)	(4.2%)
1,250	\$174.56	\$167.19	(\$7.38)	(4.2%)
1,500	\$208.05	\$199.20	(\$8.85)	(4.3%)
2,000	\$275.01	\$263.21	(\$11.80)	(4.3%)
3,500	\$475.91	\$455.26	(\$20.65)	(4.3%)
5,000	\$676.80	\$647.30	(\$29.50)	(4.4%)

	<u>Rates - Effective August 1, 2010</u>	<u>Rates - Proposed November 1, 2010</u>	<u>Difference</u>
Customer Charge	<b>\$8.40</b>	<b>\$8.40</b>	<b>\$0.00</b>
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge: First 250 kWh	\$0.02248	\$0.02248	\$0.00000
Excess 250 kWh	\$0.02748	\$0.02748	\$0.00000
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>
<b>TOTAL</b> First 250 kWh	<b>\$0.12893</b>	<b>\$0.12303</b>	<b>(\$0.00590)</b>
Excess 250 kWh	<b>\$0.13393</b>	<b>\$0.12803</b>	<b>(\$0.00590)</b>



<b>Unitil Energy Systems, Inc.</b> <b>Typical Bill Impacts - August 1, 2010 versus November 1, 2010</b> <b>Impacts do NOT include the Electricity Consumption Tax</b> <b>Impact on G2 kWh Meter Rate Customers</b>				
Average Monthly kWh	Total Bill Using Rates 8/1/2010	Total Bill Using Rates 11/1/2010	Total Difference	% Total Difference
15	\$10.51	\$10.42	(\$0.09)	(0.8%)
75	\$18.94	\$18.50	(\$0.44)	(2.3%)
150	\$29.49	\$28.60	(\$0.88)	(3.0%)
250	\$43.55	\$42.07	(\$1.47)	(3.4%)
350	\$57.60	\$55.54	(\$2.07)	(3.6%)
450	\$71.66	\$69.01	(\$2.66)	(3.7%)
550	\$85.72	\$82.47	(\$3.24)	(3.8%)
650	\$99.78	\$95.94	(\$3.83)	(3.8%)
750	\$113.84	\$109.41	(\$4.43)	(3.9%)
900	\$134.92	\$129.61	(\$5.31)	(3.9%)
	Rates - Effective August 1, 2010	Rates - Proposed November 1,	Difference	
kWh Meter Customer Charge	<b>\$8.40</b>	<b>\$8.40</b>	<b>\$0.00</b>	
	All kWh	All kWh	All kWh	
Distribution Charge	\$0.03413	\$0.03413	\$0.00000	
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	
<b>TOTAL</b>	<b>\$0.14058</b>	<b>\$0.13468</b>	<b>(\$0.00590)</b>	

<b>Unitil Energy Systems, Inc.</b> <b>Typical Bill Impacts - August 1, 2010 versus November 1, 2010</b> <b>Impacts do NOT include the Electricity Consumption Tax</b> <b>Impact on G2 QRWH and SH Rate Customers</b>				
Average kWh	Total Bill Using Rates 8/1/2010	Total Bill Using Rates 11/1/2010	Total Difference	% Total Difference
100	\$16.92	\$16.33	(\$0.59)	(3.5%)
200	\$30.09	\$28.91	(\$1.18)	(3.9%)
300	\$43.26	\$41.49	(\$1.77)	(4.1%)
400	\$56.43	\$54.07	(\$2.36)	(4.2%)
500	\$69.61	\$66.66	(\$2.95)	(4.2%)
750	\$102.53	\$98.11	(\$4.43)	(4.3%)
1,000	\$135.46	\$129.56	(\$5.90)	(4.4%)
1,500	\$201.32	\$192.47	(\$8.85)	(4.4%)
2,000	\$267.17	\$255.37	(\$11.80)	(4.4%)
2,500	\$333.03	\$318.28	(\$14.75)	(4.4%)
	Rates - Effective August 1, 2010	Rates - Proposed November 1, 2010	Difference	
Customer Charge	<b>\$3.75</b>	<b>\$3.75</b>	<b>\$0.00</b>	
	All kWh	All kWh	All kWh	
Distribution Charge	\$0.02526	\$0.02526	\$0.00000	
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000	
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000	
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>	
<b>TOTAL</b>	<b>\$0.13171</b>	<b>\$0.12581</b>	<b>(\$0.00590)</b>	

**Unitil Energy Systems, Inc.**  
**Typical Bill Impacts - August 1, 2010 versus November 1, 2010**  
**Impacts do NOT include the Electricity Consumption Tax**  
**Impact on G1 Rate Customers**

<b>Load Factor</b>	<b>Average Monthly kVa</b>	<b>Average Monthly kWh</b>	<b>Total Bill Using Rates 8/1/2010</b>	<b>Total Bill Using Rates 11/1/2010</b>	<b>Total Difference</b>	<b>% Total Difference</b>
25.0%	200	36,500	\$4,670.67	\$4,889.31	\$218.64	4.7%
25.0%	400	73,000	\$9,232.48	\$9,669.75	\$437.27	4.7%
25.0%	600	109,500	\$13,794.29	\$14,450.20	\$655.91	4.8%
25.0%	800	146,000	\$18,356.10	\$19,230.64	\$874.54	4.8%
25.0%	1,000	182,500	\$22,917.91	\$24,011.09	\$1,093.18	4.8%
25.0%	1,500	273,750	\$34,322.44	\$35,962.20	\$1,639.76	4.8%
25.0%	2,000	365,000	\$45,726.96	\$47,913.31	\$2,186.35	4.8%
25.0%	2,500	456,250	\$57,131.49	\$59,864.42	\$2,732.94	4.8%
25.0%	3,000	547,500	\$68,536.01	\$71,815.54	\$3,279.52	4.8%
40.0%	200	58,400	\$6,684.16	\$7,033.97	\$349.82	5.2%
40.0%	400	116,800	\$13,259.45	\$13,959.08	\$699.63	5.3%
40.0%	600	175,200	\$19,834.75	\$20,884.20	\$1,049.45	5.3%
40.0%	800	233,600	\$26,410.04	\$27,809.31	\$1,399.26	5.3%
40.0%	1,000	292,000	\$32,985.34	\$34,734.42	\$1,749.08	5.3%
40.0%	1,500	438,000	\$49,423.58	\$52,047.20	\$2,623.62	5.3%
40.0%	2,000	584,000	\$65,861.82	\$69,359.98	\$3,498.16	5.3%
40.0%	2,500	730,000	\$82,300.06	\$86,672.76	\$4,372.70	5.3%
40.0%	3,000	876,000	\$98,738.30	\$103,985.54	\$5,247.24	5.3%
57.0%	200	83,220	\$8,966.11	\$9,464.59	\$498.49	5.6%
57.0%	400	166,440	\$17,823.35	\$18,820.33	\$996.98	5.6%
57.0%	600	249,660	\$26,680.60	\$28,176.06	\$1,495.46	5.6%
57.0%	800	332,880	\$35,537.85	\$37,531.80	\$1,993.95	5.6%
57.0%	1,000	416,100	\$44,395.09	\$46,887.53	\$2,492.44	5.6%
57.0%	1,500	624,150	\$66,538.21	\$70,276.87	\$3,738.66	5.6%
57.0%	2,000	832,200	\$88,681.33	\$93,666.21	\$4,984.88	5.6%
57.0%	2,500	1,040,250	\$110,824.45	\$117,055.54	\$6,231.10	5.6%
57.0%	3,000	1,248,300	\$132,967.56	\$140,444.88	\$7,477.32	5.6%
71.0%	200	103,660	\$10,845.36	\$11,466.28	\$620.92	5.7%
71.0%	400	207,320	\$21,581.86	\$22,823.71	\$1,241.85	5.8%
71.0%	600	310,980	\$32,318.36	\$34,181.13	\$1,862.77	5.8%
71.0%	800	414,640	\$43,054.86	\$45,538.56	\$2,483.69	5.8%
71.0%	1,000	518,300	\$53,791.36	\$56,895.98	\$3,104.62	5.8%
71.0%	1,500	777,450	\$80,632.61	\$85,289.54	\$4,656.93	5.8%
71.0%	2,000	1,036,600	\$107,473.86	\$113,683.10	\$6,209.23	5.8%
71.0%	2,500	1,295,750	\$134,315.12	\$142,076.66	\$7,761.54	5.8%
71.0%	3,000	1,554,900	\$161,156.37	\$170,470.22	\$9,313.85	5.8%

	<b>Rates - Effective August 1, 2010</b>	<b>Rates - Proposed November 1, 2010</b>	<b>Difference</b>
Customer Charge	<b>\$108.86</b>	<b>\$108.86</b>	<b>\$0.00</b>
Distribution Charge	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Stranded Cost Charge	\$5.69	\$5.69	\$0.00
<b>TOTAL</b>	<u>\$0.34</u>	<u>\$0.34</u>	<u>\$0.00</u>
	<b>\$6.03</b>	<b>\$6.03</b>	<b>\$0.00</b>
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00438	\$0.00438	\$0.00000
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000
Stranded Cost Charge	\$0.00041	\$0.00041	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge*	<u>\$0.06697</u>	<u>\$0.07296</u>	<u>\$0.00599</u>
<b>TOTAL</b>	<u>\$0.09194</u>	<u>\$0.09793</u>	<u>\$0.00599</u>

\* Default Service Charges shown are based on the average of the DSC for each 3-month period.

**Unitil Energy Systems, Inc.**  
**Typical Bill Impacts - August 1, 2010 versus November 1, 2010**  
**Impacts do NOT include the Electricity Consumption Tax**  
**Impact on OL Rate Customers**

	<u>Nominal Watts</u>	<u>Lumens</u>	<u>Average Monthly kWh</u>	<u>Total Bill Using Rates 8/1/2010</u>	<u>Total Bill Using Rates 11/1/2010</u>	<u>Total Difference</u>	<u>% Total Difference</u>
<u>Mercury Vapor:</u>							
1	100	3,500	40	\$12.31	\$12.08	(\$0.24)	(1.9%)
2	175	7,000	67	\$16.97	\$16.57	(\$0.40)	(2.3%)
3	250	11,000	95	\$21.48	\$20.92	(\$0.56)	(2.6%)
4	400	20,000	154	\$30.30	\$29.39	(\$0.91)	(3.0%)
5	1,000	60,000	388	\$70.29	\$68.00	(\$2.29)	(3.3%)
6	250	11,000	95	\$22.26	\$21.70	(\$0.56)	(2.5%)
7	400	20,000	154	\$31.31	\$30.40	(\$0.91)	(2.9%)
8	1,000	60,000	388	\$67.26	\$64.97	(\$2.29)	(3.4%)
9	100	3,500	40	\$12.39	\$12.16	(\$0.24)	(1.9%)
10	175	7,000	67	\$16.37	\$15.97	(\$0.40)	(2.4%)
<u>High Pressure Sodium:</u>							
11	50	4,000	21	\$10.37	\$10.24	(\$0.12)	(1.2%)
12	100	9,500	43	\$13.95	\$13.69	(\$0.25)	(1.8%)
13	150	16,000	60	\$15.87	\$15.52	(\$0.35)	(2.2%)
14	250	30,000	101	\$23.01	\$22.42	(\$0.60)	(2.6%)
15	400	50,000	161	\$33.00	\$32.05	(\$0.95)	(2.9%)
16	1,000	140,000	398	\$71.05	\$68.70	(\$2.35)	(3.3%)
17	150	16,000	60	\$17.44	\$17.09	(\$0.35)	(2.0%)
18	250	30,000	101	\$24.09	\$23.50	(\$0.60)	(2.5%)
19	400	50,000	161	\$32.64	\$31.69	(\$0.95)	(2.9%)
20	1,000	140,000	398	\$71.29	\$68.94	(\$2.35)	(3.3%)
21	50	4,000	21	\$9.70	\$9.57	(\$0.12)	(1.3%)
22	100	95,000	43	\$13.16	\$12.90	(\$0.25)	(1.9%)

	<u>Rates - Effective August 1, 2010</u>	<u>Rates - Proposed November 1, 2010</u>	<u>Difference</u>
Customer Charge	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00438	\$0.00438	\$0.00000
External Delivery Charge	\$0.01688	\$0.01688	\$0.00000
Stranded Cost Charge	\$0.00138	\$0.00138	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge	<u>\$0.08489</u>	<u>\$0.07899</u>	<u>(\$0.00590)</u>
<b>TOTAL</b>	<b>\$0.11083</b>	<b>\$0.10493</b>	<b>(\$0.00590)</b>
<b><u>Luminaire Charges For Year Round Service:</u></b>			
	<u>Mercury Vapor Rate/Mo.</u>	<u>Mercury Vapor Rate/Mo.</u>	<u>Mercury Vapor Rate/Mo.</u>
1	\$7.88	\$7.88	\$0.00
2	\$9.54	\$9.54	\$0.00
3	\$10.95	\$10.95	\$0.00
4	\$13.23	\$13.23	\$0.00
5	\$27.29	\$27.29	\$0.00
6	\$11.73	\$11.73	\$0.00
7	\$14.24	\$14.24	\$0.00
8	\$24.26	\$24.26	\$0.00
9	\$7.96	\$7.96	\$0.00
10	\$8.94	\$8.94	\$0.00
	<u>Sodium Vapor Rate/Mo.</u>	<u>Sodium Vapor Rate/Mo.</u>	<u>Sodium Vapor Rate/Mo.</u>
11	\$8.04	\$8.04	\$0.00
12	\$9.18	\$9.18	\$0.00
13	\$9.22	\$9.22	\$0.00
14	\$11.82	\$11.82	\$0.00
15	\$15.16	\$15.16	\$0.00
16	\$26.94	\$26.94	\$0.00
17	\$10.79	\$10.79	\$0.00
18	\$12.90	\$12.90	\$0.00
19	\$14.80	\$14.80	\$0.00
20	\$27.18	\$27.18	\$0.00
21	\$7.37	\$7.37	\$0.00
22	\$8.39	\$8.39	\$0.00