

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax)

The effective rates listed below include an Electricity Consumption Tax, assessed in accordance with NH Statute RSA Chapter 83-E.

This tax, collected on behalf of the State of NH by each electric utility, is based on kWh consumed.

Each bill rendered for electric delivery service shall be calculated through the application of the effective rates as listed below.

<u>Class</u>		<u>Distribution Charge*</u>	<u>External Delivery Charge**</u>	<u>Stranded Cost Charge**</u>	<u>System Benefits Charge***</u> (1)	<u>Total Delivery Charges</u>	<u>Electricity Consumption Tax</u>	<u>Effective Delivery Rates (Incl. Electricity Consumption Tax)</u>
D	Customer Charge	\$8.40				\$8.40		\$8.40
	First 250 kWh	\$0.01810	\$0.01425	\$0.00495	\$0.00330	\$0.04060	\$0.00055	\$0.04115
	Excess 250 kWh	\$0.02310	\$0.01425	\$0.00495	\$0.00330	\$0.04560	\$0.00055	\$0.04615
G2	Customer Charge	\$11.00				\$11.00		\$11.00
	All kW	\$7.03		\$0.87		\$7.90		\$7.90
	All kWh	\$0.00000	\$0.01425	\$0.00167	\$0.00330	\$0.01922	\$0.00055	\$0.01977
G2 - kWh meter	Customer Charge	\$8.40				\$8.40		\$8.40
	All kWh	\$0.02975	\$0.01425	\$0.00495	\$0.00330	\$0.05225	\$0.00055	\$0.05280
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$3.75				\$3.75		\$3.75
	All kWh	\$0.02088	\$0.01425	\$0.00495	\$0.00330	\$0.04338	\$0.00055	\$0.04393
G1	Customer Charge	\$108.86	Secondary Voltage			\$108.86		\$108.86
	Customer Charge	\$64.51	Primary Voltage			\$64.51		\$64.51
	All kVA	\$5.69		\$1.24		\$6.93		\$6.93
	All kWh	\$0.00000	\$0.01425	\$0.00147	\$0.00330	\$0.01902	\$0.00055	\$0.01957
ALL GENERAL	Transformer Ownership Credit (kW/kVa)							(\$0.35)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)							2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)							3.50%

(1) Includes low-income portion of \$0.00150 per kWh and energy efficiency portion of \$0.00180 per kWh.

* Authorized by NHPUC Order No. 24,742 in Case No. DE 05-178, dated April 13, 2007

** Authorized by NHPUC Order No. in Case No. DE , dated

*** Authorized by NHPUC Order No. 24,903 in Case No. DE 08-097, dated September 30, 2008

Issued: July 14, 2009

Effective: August 1, 2009

Issued By: Mark H. Collin

Treasurer

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax) (continued)

<u>Class</u>	<u>Distribution Charge*</u>	<u>External Delivery Charge**</u>	<u>Stranded Cost Charge**</u>	<u>System Benefits Charge***</u> (1)	<u>Total Delivery Charges</u>	<u>Electricity Consumption Tax</u>	<u>Effective Delivery Rates (Incl. Electricity Consumption Tax)</u>
OL							
All kWh	\$0.00000	\$0.01425	\$0.00495	\$0.00330	\$0.02250	\$0.00055	\$0.02305

Luminaire Charges

<u>Lamp Size</u>		<u>Monthly kWh</u>	<u>Description</u>	<u>Price Per Luminaire</u>	
<u>Nominal Watts</u>	<u>Lumens (Approx.)</u>			<u>Per Mo.</u>	<u>Per Year</u>
100	3,500	40	Mercury Vapor Street	\$7.88	\$94.56
175	7,000	67	Mercury Vapor Street	\$9.54	\$114.48
250	11,000	95	Mercury Vapor Street	\$10.95	\$131.40
400	20,000	154	Mercury Vapor Street	\$13.23	\$158.76
1,000	60,000	388	Mercury Vapor Street	\$27.29	\$327.48
250	11,000	95	Mercury Vapor Flood	\$11.73	\$140.76
400	20,000	154	Mercury Vapor Flood	\$14.24	\$170.88
1,000	60,000	388	Mercury Vapor Flood	\$24.26	\$291.12
100	3,500	40	Mercury Vapor Power Bracket	\$7.96	\$95.52
175	7,000	67	Mercury Vapor Power Bracket	\$8.94	\$107.28
50	4,000	21	Sodium Vapor Street	\$8.04	\$96.48
100	9,500	43	Sodium Vapor Street	\$9.18	\$110.16
150	16,000	60	Sodium Vapor Street	\$9.22	\$110.64
250	30,000	101	Sodium Vapor Street	\$11.82	\$141.84
400	50,000	161	Sodium Vapor Street	\$15.16	\$181.92
1,000	140,000	398	Sodium Vapor Street	\$26.94	\$323.28
150	16,000	60	Sodium Vapor Flood	\$10.79	\$129.48
250	30,000	101	Sodium Vapor Flood	\$12.90	\$154.80
400	50,000	161	Sodium Vapor Flood	\$14.80	\$177.60
1,000	140,000	398	Sodium Vapor Flood	\$27.18	\$326.16
50	4,000	21	Sodium Vapor Power Bracket	\$7.37	\$88.44
100	9,500	43	Sodium Vapor Power Bracket	\$8.39	\$100.68

(1) Includes low-income portion of \$0.00150 per kWh and energy efficiency portion of \$0.00180 per kWh.

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Treasurer

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

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

<u>Rate D</u>				
<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	(\$0.00634)
			Excess 250 kWh	(\$0.00659)
2	151 - 175	7%	Customer Charge	(\$0.59)
			First 250 kWh	(\$0.00887)
			Excess 250 kWh	(\$0.00922)
3	126 - 150	18%	Customer Charge	(\$1.51)
			First 250 kWh	(\$0.02282)
			Excess 250 kWh	(\$0.02372)
4	101 - 125	33%	Customer Charge	(\$2.77)
			First 250 kWh	(\$0.04184)
			Excess 250 kWh	(\$0.04349)
5	76 - 100	48%	Customer Charge	(\$4.03)
			First 250 kWh	(\$0.06085)
			Excess 250 kWh	(\$0.06325)
6	0 - 75	70%	Customer Charge	(\$5.88)
			First 250 kWh	(\$0.08875)
			Excess 250 kWh	(\$0.09225)

(1) Total utility charges from Page 4 (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. _____, dated _____

Issued: July 14, 2009
 Effective: August 1, 2009

Issued By: Mark H. Collin
 Treasurer

CALCULATION OF THE EXTERNAL DELIVERY CHARGE

1. (Over)/under Recovery - Beginning Balance August 1, 2009	\$228,732
2. Estimated Total Costs (August 2009 - July 2010)	\$17,249,589
3. Estimated Interest (August 2009 - July 2010)	<u>(\$1,809)</u>
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$17,476,512
5. Estimated Calendar Month Deliveries in kWh (August 2009 - July 2010)	<u>1,226,188,039</u>
6. External Delivery Charge (\$/kWh) (L.5/L.6)	\$0.01425

Authorized by NHPUC Order No. in Case No. , dated

UNITIL ENERGY SYSTEMS, INC.

DIRECT TESTIMONY OF
LINDA S. MCNAMARA

New Hampshire Public Utilities Commission

Docket No.: DE 09-115

July 14, 2009

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LIST OF SCHEDULES

Schedule LSM-1: Stranded Cost Charge

Revised Schedule LSM-2: External Delivery Charge

Revised Schedule LSM-3: Redline Tariffs

Revised Schedule LSM-4: 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 Unitil Service Corp. ("USC"), which
8 provides centralized management and administrative services to all Unitil
9 Corporation's affiliates including Unitil Energy Systems, Inc. ("UES").

10

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

12 A. In 1994 I graduated *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, price
15 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
2 to UES' Stranded Cost Charge ("SCC") and External Delivery Charge
3 ("EDC"), effective August 1, 2009.

4
5 My testimony will focus on the reconciliation and rate development for the
6 SCC and EDC. Mr. Francis X. Wells is sponsoring testimony which
7 addresses the costs associated with each of these charges.

8

9 **III. SUMMARY OF TESTIMONY**

10 Q. Please summarize your testimony.

11 A. My testimony will provide support for the revisions to the SCC and EDC for
12 effect August 1, 2009. I will explain the rate development for these
13 mechanisms, review the actual and estimated data included in each rate,
14 describe the proposed tariff revisions, and provide bill impacts for each class.

15

16 Q. Is UES proposing any other rate changes for effect August 1, 2009?

17 A. Yes. On June 12th, UES submitted to the Commission its G1 class Default
18 Service tariff filing in DE 09-009, with a revision filed on June 18th. In that
19 filing, UES proposed Default Service rates for its G1 class based on the
20 winning bids, and proposed changes to its Default Service tariff for effect
21 August 1, 2009. The Commission approved UES' G1 class Default Service
22 rates on June 19, 2009 in Order No. 24,980. The approved rates have been

1 included in the G1 class typical bill comparisons in order to fully reflect all
2 changes to UES' rates effective August 1, 2009.

3

4 **IV. STRANDED COST CHARGE**

5 Q. What is the SCC?

6 A. The SCC is the mechanism by which UES recovers UPC's stranded costs
7 from retail customers. UPC's stranded costs are billed to UES in the form of
8 Contract Release Payments through the Amended System Agreement.

9

10 Q. What is UES' proposed SCC?

11 A. As shown on Schedule LSM-1, Page 1, UES is proposing a SCC of
12 \$0.00495/kWh for its Residential, Regular General Service kWh meter,
13 General Service Quick Recovery Water Heating, Space Heating, and
14 Controlled Off Peak Water Heating, and Outdoor Lighting classes,
15 \$0.00167/kWh and \$0.87/kW for its Regular General Service G2 class, and
16 \$0.00147/kWh and \$1.24/kVa for its Large General Service G1 class. The
17 charges are proposed to become effective August 1, 2009.

18

19 Q. How is the SCC calculated?

20 A. Schedule LSM-1, Page 1 provides the calculation for the SCC for all classes.
21 The rate is calculated in accordance with UES' tariff, Schedule SCC. The
22 class SCC obligations are calculated first based on a uniform per kWh charge,

1 and then applied to each class based on an appropriate rate design. In addition
2 to the energy based SCC, the Regular General Service G2 class and Large
3 General Service G1 class also pay a demand based SCC. In past filings, in
4 order to determine the energy based SCC, the calculated demand revenue was
5 subtracted from the total revenue calculated based on a uniform kWh charge.
6 However, because of the large decrease in the SCC, applying this method
7 resulted in negative energy charges. To avoid negative energy charges, UES
8 used the ratio of demand and energy revenue under current rates to develop
9 the demand and energy components of the SCC for effect August 1, 2009.

10

11 Q. How was the uniform per kWh rate for determining class SCC obligations
12 calculated?

13 A. The uniform SCC is calculated by dividing the prior period (over)/under
14 recovery as of July 31, 2009, plus the forecast of costs for the period August
15 2009 through July 2010, plus interest for the same period, by calendar month
16 kWh sales for August 2009 through July 2010. This uniform rate is applied
17 equally to all customer classes other than G2 and G1. This calculation is
18 provided on Schedule LSM-1, Page 1.

19

20 Q. How does the proposed SCC compare to the rate currently in effect?

1 A. The uniform rate is decreasing by \$0.00387 per kWh. The decrease is
2 primarily due to lower forecasted costs, primarily the expiration of Residual
3 Contract Obligations.
4

5 Q. Have you provided a reconciliation of costs and revenues in the SCC?

6 A. Schedule LSM-1, Page 2, provides the reconciliation of costs and revenues for
7 the two prior periods, May 2007 through April 2008 and May 2008 through
8 July 2009¹, while Page 3 provides the reconciliation for the forecast rate
9 period, August 2009 through July 2010. Actual data is provided for May
10 2007 through April 2009 and estimated data is provided for the remaining
11 months. This schedule summarizes the costs and revenues associated with
12 stranded costs and provides the computation of interest, which is calculated
13 based on average monthly balances using the prime rate, as described in the
14 tariff. As noted, the May 2008 beginning balance also includes the ending
15 balance in the Transition Service ("TS") Charge Balance which was approved
16 in Order No. 24,851. Details of the TS Charge Balance are provided on Pages
17 6 through 9 of Schedule LSM-1.
18

19 Q. Have you provided detail on the monthly revenues shown on Pages 2 and 3 of
20 Schedule LSM-1?

¹ As discussed in more detail by Mr. Wells, changes to the SCC and EDC are now made for effect August 1 of each year, instead of May 1.

1 A. Yes, revenue detail is shown on Schedule LSM-1, Page 4 for the period May
2 2007 through April 2008, May 2008 through July 2009, and August 2009
3 through July 2010. Actual data is included for May 2007 through April 2009
4 and the remaining months are forecast.

5

6 **V. EXTERNAL DELIVERY CHARGE**

7 Q. What is the EDC?

8 A. The EDC is the mechanism by which UES recovers the costs it incurs
9 associated with providing transmission services outside UES' system and
10 other costs for energy and transmission related services. For costs incurred
11 after May 1, 2006, the costs included in the EDC exclude Default Service
12 related external administrative charges, which have been moved for collection
13 through the DSC, per the Settlement Agreement in DE 05-064 dated August
14 11, 2005, and approved by the Commission in Order No. 24,511 on
15 September 9, 2005.

16

17 Q. What is UES' proposed EDC?

18 A. Revised Schedule LSM-2, Page 1, provides the proposed EDC of
19 \$0.01425/kWh applicable to all classes. This charge is proposed to become
20 effective August 1, 2009.

21

22 Q. How is the EDC calculated?

1 A. The EDC is calculated by summing the prior period (over)/under recovery as
2 of July 31, 2009, plus the estimated EDC costs and associated interest for the
3 period August 2009 through July 2010. The total is divided by estimated
4 calendar month kWh sales for the period August 2009 through July 2010.

5

6 Q. How does the proposed EDC compare to the rate currently in effect?

7 A. The rate has decreased by \$0.00099 per kWh. This decrease is due to a
8 decrease in the prior period balance, as well as decreased forecasted costs.
9 Mr. Wells' testimony provides further explanation regarding the costs in the
10 both the forecasted and current period.

11

12 Q. Have you provided a reconciliation of costs and revenues in the EDC?

13 A. Revised Schedule LSM-2, Page 2, provides the reconciliation of EDC costs
14 and revenues for the two prior periods, May 2007 through April 2008 and
15 May 2008 through July 2009, while Page 3 provides the reconciliation for the
16 forecast rate period, August 2009 through July 2010. Interest is computed on
17 average monthly balances using the prime rate, as described in the tariff.
18 These pages reflect actual data for the period May 2007 through April 2009
19 and estimated data for the remainder of the period. Detail on monthly revenue
20 is shown on Schedule LSM-2, Page 4 and Revised Schedule LSM-2, Page 5.

21

22 **VI. TARIFF CHANGES AND BILL IMPACTS**

1 Q. Has UES included tariff changes to reflect the proposed rate changes for effect
2 August 1, 2009?

3 A. Schedule LSM-3, Page 1 and Revised Schedule LSM-3, Page 2 are redline
4 tariffs of the SCC and EDC, respectively. Please note that these pages are
5 essentially the same as provided in Page 1 of Schedules LSM-1 and 2. Pages
6 3, 4 and 5 of Revised Schedule LSM-3 are redline tariffs of UES' Summary of
7 Delivery Service Rates and Summary of Low-Income Electric Assistance
8 Program Discounts. The Summary of Delivery Service Rates incorporates the
9 proposed SCC and EDC. Changes to the Summary of Low-Income Electric
10 Assistance Program Discounts were made to calculate the discounts under the
11 proposed rates.
12

13 Q. Have you included any bill impacts as a result of proposed rate changes
14 effective August 1, 2009?

15 A. Yes, rate changes and bill impacts as a result of changes to the SCC, EDC,
16 and the G1 Class DSC have been provided in Revised Schedule LSM-4.
17 Pages 1 through 3 provide a table comparing the existing rates to the proposed
18 rates for all the rate classes. These pages also show the impact on a typical
19 bill for each class in order to identify the effect of each rate component on a
20 typical bill.
21

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

3

4 Page 5 provides the overall average class bill impact as well as the impact
5 associated with all August 1 changes. As shown, for customers on Default
6 Service, the residential class average bill will decrease about 3.3%. General
7 Service (G2) average bills will also decrease about 3.4%. Large General
8 Service (G1) average bills will decrease about 5.8%, with 4.2% of this amount
9 due to changes in the SCC and EDC. Outdoor lighting average bills will
10 decrease about 2.0%.

11

12 Pages 6 through 11 of Revised Schedule LSM-4 provide typical bill impacts
13 for all classes for a range of usage levels.

14

15 **VII. CONCLUSION**

16 Q. Does that conclude your testimony?

17 A. Yes, it does.

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July 14~~June 17~~, 2009

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A. As shown on Schedule LSM-1, Page 1, UES is proposing a SCC of
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4 and then applied to each class based on an appropriate rate design. In addition
5 to the energy based SCC, the Regular General Service G2 class and Large
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7 order to determine the energy based SCC, the calculated demand revenue was
8 subtracted from the total revenue calculated based on a uniform kWh charge.
9 However, because of the large decrease in the SCC, applying this method
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11 used the ratio of demand and energy revenue under current rates to develop
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17 recovery as of July 31, 2009, plus the forecast of costs for the period August
18 2009 through July 2010, plus interest for the same period, by calendar month
19 kWh sales for August 2009 through July 2010. This uniform rate is applied
20 equally to all customer classes other than G2 and G1. This calculation is
21 provided on Schedule LSM-1, Page 1.

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1 Q. How does the proposed SCC compare to the rate currently in effect?

2 A. The uniform rate is decreasing by \$0.00387 per kWh. The decrease is
3 primarily due to lower forecasted costs, primarily the expiration of Residual
4 Contract Obligations.

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6 Q. Have you provided a reconciliation of costs and revenues in the SCC?

7 A. Schedule LSM-1, Page 2, provides the reconciliation of costs and revenues for
8 the two prior periods, May 2007 through April 2008 and May 2008 through
9 July 2009¹, while Page 3 provides the reconciliation for the forecast rate
10 period, August 2009 through July 2010. Actual data is provided for May
11 2007 through April 2009 and estimated data is provided for the remaining
12 months. This schedule summarizes the costs and revenues associated with
13 stranded costs and provides the computation of interest, which is calculated
14 based on average monthly balances using the prime rate, as described in the
15 tariff. As noted, the May 2008 beginning balance also includes the ending
16 balance in the Transition Service ("TS") Charge Balance which was approved
17 in Order No. 24,851. Details of the TS Charge Balance are provided on Pages
18 6 through 9 of Schedule LSM-1.

19

¹ As discussed in more detail by Mr. Wells, changes to the SCC and EDC are now made for effect August 1 of each year, instead of May 1.

1 Q. Have you provided detail on the monthly revenues shown on Pages 2 and 3 of
2 Schedule LSM-1?

3 A. Yes, revenue detail is shown on Schedule LSM-1, Page 4 for the period May
4 2007 through April 2008, May 2008 through July 2009, and August 2009
5 through July 2010. Actual data is included for May 2007 through April 2009
6 and the remaining months are forecast.

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9 Q. What is the EDC?

10 A. The EDC is the mechanism by which UES recovers the costs it incurs
11 associated with providing transmission services outside UES' system and
12 other costs for energy and transmission related services. For costs incurred
13 after May 1, 2006, the costs included in the EDC exclude Default Service
14 related external administrative charges, which have been moved for collection
15 through the DSC, per the Settlement Agreement in DE 05-064 dated August
16 11, 2005, and approved by the Commission in Order No. 24,511 on
17 September 9, 2005.

18
19 Q. What is UES' proposed EDC?

20 A. Revised Schedule LSM-2, Page 1, provides the proposed EDC of
21 \$0.01425+594/kWh applicable to all classes. This charge is proposed to
22 become effective August 1, 2009.

1

2 Q. How is the EDC calculated?

3 A. The EDC is calculated by summing the prior period (over)/under recovery as
4 of July 31, 2009, plus the estimated EDC costs and associated interest for the
5 period August 2009 through July 2010. The total is divided by estimated
6 calendar month kWh sales for the period August 2009 through July 2010.

7

8 Q. How does the proposed EDC compare to the rate currently in effect?

9 A. The rate has ~~dein~~creased by \$0.000~~99~~⁶⁷ per kWh. This ~~dein~~crease is due to a
10 decrease in the prior period balance, as well as deincreased forecasted costs;
11 ~~and is slightly offset due to a decrease in the prior period balance.~~ Mr. Wells'
12 testimony provides further explanation regarding the ~~increased~~ costs in the
13 both the forecasted and current period.

14

15 Q. Have you provided a reconciliation of costs and revenues in the EDC?

16 A. Revised Schedule LSM-2, Page 2, provides the reconciliation of EDC costs
17 and revenues for the two prior periods, May 2007 through April 2008 and
18 May 2008 through July 2009, while Page 3 provides the reconciliation for the
19 forecast rate period, August 2009 through July 2010. Interest is computed on
20 average monthly balances using the prime rate, as described in the tariff.
21 These pages reflect actual data for the period May 2007 through April 2009

and estimated data for the remainder of the period. Detail on monthly revenue is shown on Schedule LSM-2, Pages 4 and Revised Schedule LSM-2, Page 5.

VI. TARIFF CHANGES AND BILL IMPACTS

Q. Has UES included tariff changes to reflect the proposed rate changes for effect August 1, 2009?

A. Schedule LSM-3, Page 1 and Revised Schedule LSM-3, Page 2 are redline tariffs of the SCC and EDC, respectively. Please note that these pages are essentially the same as provided in Page 1 of Schedules LSM-1 and 2. Pages 3, 4 and 5 of Revised Schedule LSM-3 are redline tariffs of UES' Summary of Delivery Service Rates and Summary of Low-Income Electric Assistance Program Discounts. The Summary of Delivery Service Rates incorporates the proposed SCC and EDC. Changes to the Summary of Low-Income Electric Assistance Program Discounts were made to calculate the discounts under the proposed rates.

Q. Have you included any bill impacts as a result of proposed rate changes effective August 1, 2009?

A. Yes, rate changes and bill impacts as a result of changes to the SCC, EDC, and the G1 Class DSC have been provided in Revised Schedule LSM-4. Pages 1 through 3 provide a table comparing the existing rates to the proposed rates for all the rate classes. These pages also show the impact on a typical

1 bill for each class in order to identify the effect of each rate component on a
2 typical bill.

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

6
7 Page 5 provides the overall average class bill impact as well as the impact
8 associated with all August 1 changes~~both filings~~. As shown, for customers on
9 Default Service, the residential class average bill will decrease about 3.32.2%.
10 General Service (G2) average bills will also decrease about 3.42.2%. Large
11 General Service (G1) average bills will decrease about 4.35.8%, with 4.22.7%
12 of this amount due to changes in the SCC and EDC. Outdoor lighting average
13 bills will decrease about 2.01.3%.

14
15 Pages 6 through 11 of Revised Schedule LSM-4 provide typical bill impacts
16 for all classes for a range of usage levels.

17
18 **VII. CONCLUSION**

19 Q. Does that conclude your testimony?

20 A. Yes, it does.

UNITIL ENERGY SYSTEMS. INC.
CALCULATION OF THE EXTERNAL DELIVERY CHARGE
Effective August 1, 2009

1. (Over)/under Recovery - Beginning Balance August 1, 2009	\$228,732	Page 3 of 6
2. Estimated Total Costs (August 2009 - July 2010)	\$17,249,589	Page 3 of 6
3. Estimated Interest (August 2009 - July 2010)	<u>(\$1,809)</u>	Page 3 of 6
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$17,476,512	L.1 + L.2 + L.3
5. Estimated Calendar Month Deliveries in kWh (August 2009 - July 2010) (1)	<u>1,226,188,039</u>	
6. External Delivery Charge (\$/kWh) (L.5/L.6)	\$0.01425	L.5 / L.6

(1) Schedule LSM-2, page 5.

August 2009 - July 2010 Billed kWh 1,225,589,792
- July 2009 Unbilled kWh (67,585,551)
+ July 2010 Unbilled kWh 68,183,798
Calendar Month Deliveries 1,226,188,039

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
May-07	Recast	(\$1,427,060)	\$773,762	\$684,156	(\$1,337,454)	(\$1,382,257)	8.25%	31	(\$9,685)	(\$1,347,139)
Jun-07	Recast	(\$1,347,139)	\$972,967	\$767,954	(\$1,142,126)	(\$1,244,632)	8.25%	30	(\$8,440)	(\$1,150,565)
Jul-07	Recast	(\$1,150,565)	\$1,054,275	\$782,494	(\$878,784)	(\$1,014,675)	8.25%	31	(\$7,110)	(\$885,894)
Jan-07	Recast	(\$885,894)	\$1,292,638	\$818,946	(\$412,201)	(\$649,048)	8.25%	31	(\$4,548)	(\$416,749)
Sep-07	Recast	(\$416,749)	\$767,923	\$749,491	(\$398,317)	(\$407,533)	8.25%	30	(\$2,763)	(\$401,080)
Oct-07	Recast	(\$401,080)	\$832,989	\$589,473	(\$157,564)	(\$279,322)	8.25%	31	(\$1,957)	(\$159,521)
Nov-07	Recast	\$50,679 (1)	\$865,498	\$832,399	\$83,778	\$67,229	8.25%	30	\$456	\$84,234
Dec-07	Recast	\$84,234	\$829,675	\$842,891	\$71,018	\$77,626	8.25%	31	\$544	\$71,562
Jan-08	Actual	\$71,562	\$952,092	\$737,950	\$285,704	\$178,633	7.50%	31	\$1,135	\$286,838
Feb-08	Actual	\$286,838	\$975,169	\$714,236	\$547,772	\$417,305	7.50%	29	\$2,480	\$550,252
Mar-08	Actual	\$550,252	\$915,530	\$675,583	\$790,198	\$670,225	7.50%	31	\$4,258	\$794,456
Apr-08	Actual	\$794,456	<u>\$838,782</u>	<u>\$628,694</u>	\$1,004,543	\$899,500	6.00%	30	<u>\$4,424</u>	\$1,008,967
Total May-07 to Apr-08			\$11,071,301	\$8,824,267					(\$21,207)	

(1) Includes October 2007 Rate Case Surcharge balance of \$210,200.14, as approved by Secretarial Letter dated October 22, 2007 in DE 05-178.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
May-08	Actual	\$1,008,967	\$1,226,168	\$1,119,666	\$1,115,470	\$1,062,218	6.00%	31	\$5,398	\$1,120,868
Jun-08	Actual	\$1,120,868	\$1,492,427	\$1,231,503	\$1,381,792	\$1,251,330	6.00%	30	\$6,154	\$1,387,946
Jul-08	Actual	\$1,387,946	\$2,365,323	\$1,339,858	\$2,413,411	\$1,900,679	5.00%	31	\$8,049	\$2,421,460
Aug-08	Actual	\$2,421,460	\$1,249,426	\$1,132,659	\$2,538,227	\$2,479,844	5.00%	31	\$10,502	\$2,548,730
Sep-08	Actual	\$2,548,730	\$1,212,778	\$1,666,312	\$2,095,196	\$2,321,963	5.00%	30	\$9,516	\$2,104,712
Oct-08	Actual	\$2,104,712	\$1,070,745	\$1,456,697	\$1,718,760	\$1,911,736	5.00%	31	\$8,096	\$1,726,856
Nov-08	Actual	\$1,726,856	\$1,119,574	\$1,327,541	\$1,518,889	\$1,622,873	5.00%	30	\$6,651	\$1,525,540
Dec-08	Actual	\$1,525,540	\$1,250,085	\$1,461,911	\$1,313,715	\$1,419,627	5.00%	31	\$6,012	\$1,319,727
Jan-09	Actual	\$1,319,727	\$1,132,554	\$1,720,153	\$732,128	\$1,025,927	4.00%	31	\$3,485	\$735,613
Feb-09	Actual	\$735,613	\$1,451,602	\$1,492,404	\$694,811	\$715,212	4.00%	28	\$2,195	\$697,006
Mar-09	Actual	\$697,006	\$1,232,080	\$1,462,995	\$466,090	\$581,548	4.00%	31	\$1,976	\$468,066
Apr-09	Actual	\$468,066	\$1,116,342	\$1,315,734	\$268,674	\$368,370	3.25%	30	\$984	\$269,658
May-09	Estimate	\$269,658	\$1,170,430	\$1,569,672	(\$129,584)	\$70,037	3.25%	31	\$193	(\$129,390)
Jun-09	Estimate	(\$129,390)	\$1,715,596	\$1,553,231	\$32,975	(\$48,207)	3.25%	30	(\$129)	\$32,847
Jul-09	Estimate	\$32,847	<u>\$1,965,180</u>	<u>\$1,769,655</u>	\$228,371	\$130,609	3.25%	31	<u>\$361</u>	\$228,732
Total May-08 to Jul-09			\$20,770,312	\$21,619,991					\$69,444	

Unitil Energy Systems, Inc.
Reconciliation of External Delivery Costs and Revenues

Revised Schedule LSM-2
Page 3 of 6

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-09	Estimate	\$228,732	\$1,579,628	\$1,608,676	\$199,684	\$214,208	3.25%	31	\$591	\$200,275
Sep-09	Estimate	\$200,275	\$1,463,000	\$1,477,750	\$185,526	\$192,900	3.25%	30	\$515	\$186,041
Oct-09	Estimate	\$186,041	\$1,212,579	\$1,390,901	\$7,719	\$96,880	3.25%	31	\$267	\$7,986
Nov-09	Estimate	\$7,986	\$1,321,218	\$1,285,714	\$43,491	\$25,739	3.25%	30	\$69	\$43,559
Dec-09	Estimate	\$43,559	\$1,497,608	\$1,470,771	\$70,396	\$56,978	3.25%	31	\$157	\$70,553
Jan-10	Estimate	\$70,553	\$1,374,386	\$1,541,565	(\$96,626)	(\$13,036)	3.25%	31	(\$36)	(\$96,662)
Feb-10	Estimate	(\$96,662)	\$1,381,451	\$1,445,623	(\$160,834)	(\$128,748)	3.25%	28	(\$321)	(\$161,155)
Mar-10	Estimate	(\$161,155)	\$1,320,323	\$1,408,114	(\$248,947)	(\$205,051)	3.25%	31	(\$566)	(\$249,513)
Apr-10	Estimate	(\$249,513)	\$1,235,578	\$1,223,361	(\$237,295)	(\$243,404)	3.25%	30	(\$650)	(\$237,945)
May-10	Estimate	(\$237,945)	\$1,287,597	\$1,486,083	(\$436,431)	(\$337,188)	3.25%	31	(\$931)	(\$437,362)
Jun-10	Estimate	(\$437,362)	\$1,783,935	\$1,466,194	(\$119,620)	(\$278,491)	3.25%	30	(\$744)	(\$120,364)
Jul-10	Estimate	(\$120,364)	\$1,792,286	\$1,668,428	\$3,494	(\$58,435)	3.25%	31	(\$161)	\$3,332
Total Aug-09 to Jul-10			\$17,249,589	\$17,473,180					(\$1,809)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Total Billed kWh	Unbilled Factor	Unbilled kWh (a * b)	Proposed EDC	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue	Total Revenue (e + f + g)
Aug-09	Estimate	119,906,019	50.51%	60,569,050	\$0.01425	\$863,109	(\$1,030,004)	\$1,775,570	\$1,608,676
Sep-09	Estimate	105,726,218	55.37%	58,544,592	\$0.01425	\$834,260	(\$863,109)	\$1,506,599	\$1,477,750
Oct-09	Estimate	96,725,954	61.44%	59,425,725	\$0.01425	\$846,817	(\$834,260)	\$1,378,345	\$1,390,901
Nov-09	Estimate	96,202,130	55.56%	53,449,116	\$0.01425	\$761,650	(\$846,817)	\$1,370,880	\$1,285,714
Dec-09	Estimate	101,506,380	54.34%	55,154,736	\$0.01425	\$785,955	(\$761,650)	\$1,446,466	\$1,470,771
Jan-10	Estimate	109,613,886	49.01%	53,720,836	\$0.01425	\$765,522	(\$785,955)	\$1,561,998	\$1,541,565
Feb-10	Estimate	104,202,329	48.91%	50,965,735	\$0.01425	\$726,262	(\$765,522)	\$1,484,883	\$1,445,623
Mar-10	Estimate	97,176,622	54.13%	52,604,146	\$0.01425	\$749,609	(\$726,262)	\$1,384,767	\$1,408,114
Apr-10	Estimate	94,312,175	46.80%	44,141,867	\$0.01425	\$629,022	(\$749,609)	\$1,343,948	\$1,223,361
May-10	Estimate	93,181,118	59.29%	55,247,251	\$0.01425	\$787,273	(\$629,022)	\$1,327,831	\$1,486,083
Jun-10	Estimate	96,325,794	64.17%	61,812,274	\$0.01425	\$880,825	(\$787,273)	\$1,372,643	\$1,466,194
Jul-10	Estimate	110,711,166	61.59%	68,183,798	\$0.01425	\$971,619	(\$880,825)	\$1,577,634	\$1,668,428
Total Aug-09 to Jul-10		1,225,589,792		673,819,124		\$9,601,923	(\$9,660,307)	\$17,531,564	\$17,473,180

(R)

CALCULATION OF THE EXTERNAL DELIVERY CHARGE

1- (Over)/under Recovery - Beginning Balance May 2008	\$1,066,921	1. (Over)/under Recovery - Beginning Balance August 1, 2009	\$228,732
2- Estimated Total Costs (May 2008 - April 2009)	\$13,580,032	2. Estimated Total Costs (August 2009 - July 2010)	\$17,249,589
3- Estimated Interest (May 2008 - April 2009)	\$33,453	3. Estimated Interest (August 2009 - July 2010)	<u>(\$1,809)</u>
4- Costs to be Recovered (L.1 + L.2 + L.3)	\$14,680,406	4. Costs to be Recovered (L.1 + L.2 + L.3)	\$17,476,512
5- Estimated Calendar Month Deliveries in kWh (May 2008 - April 2009)	1,298,409,798	5. Estimated Calendar Month Deliveries in kWh (August 2009 - July 2010)	<u>1,226,188,039</u>
6- External Delivery Charge (\$/kWh) (L.5/L.6) effective May 1, 2008	\$0.01131	6. External Delivery Charge (\$/kWh) (L.5/L.6)	\$0.01425
7- Incremental Costs (June 2008 - April 2009)	\$3,300,019		
8- Estimated Calendar Month Deliveries in kWh (September 2008 - April 2009)	839,198,186		
9- Incremental Increase to External Delivery Charge (\$/kWh) (L. 7 / L. 8)	\$0.00393		
10- External Delivery Charge (\$/kWh) (L.6 + L. 9) effective September 1, 2008	0.01524		

Authorized by NHPUC Order No. 24,889 in Case No. DE 08-092, dated August 29, 2008

NHPUC No. 3 - Electricity Delivery

Unitil Energy Systems, Inc.

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax)

The effective rates listed below include an Electricity Consumption Tax, assessed in accordance with NH Statute RSA Chapter 83-E.

This tax, collected on behalf of the State of NH by each electric utility, is based on kWh consumed.

Each bill rendered for electric delivery service shall be calculated through the application of the effective rates as listed below.

Class		Distribution Charge*	External Delivery Charge***	(R) External Delivery Charge**	Stranded Cost- Charge**	(R) Stranded Cost Charge**	System Benefits Charge****	Total Delivery Charges	(R) Total Delivery Charges	Electricity Consumption Tax	Effective Delivery Rates (Incl. Electricity Consumption Tax)	(R) Effective Delivery Rates (Incl. Electricity Consumption Tax)
D	Customer Charge	\$8.40					(1)	\$8.40	\$8.40		\$8.40	\$8.40
	First 250 kWh	\$0.01810	\$0.01524	\$0.01425	\$0.00882	\$0.00495	\$0.00330	\$0.04546	\$0.04060	\$0.00055	\$0.04601	\$0.04115
	Excess 250 kWh	\$0.02310	\$0.01524	\$0.01425	\$0.00882	\$0.00495	\$0.00330	\$0.05046	\$0.04560	\$0.00055	\$0.05101	\$0.04615
G2	Customer Charge	\$11.00						\$11.00	\$11.00		\$11.00	\$11.00
	All kW	\$7.03			\$1.55	\$0.87		\$8.58	\$7.90		\$8.58	\$7.90
	All kWh	\$0.00000	\$0.01524	\$0.01425	\$0.00298	\$0.00167	\$0.00330	\$0.02152	\$0.01922	\$0.00055	\$0.02207	\$0.01977
G2 - kWh meter	Customer Charge	\$8.40						\$8.40	\$8.40		\$8.40	\$8.40
	All kWh	\$0.02975	\$0.01524	\$0.01425	\$0.00882	\$0.00495	\$0.00330	\$0.05711	\$0.05225	\$0.00055	\$0.05766	\$0.05280
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$3.75						\$3.75	\$3.75		\$3.75	\$3.75
	All kWh	\$0.02088	\$0.01524	\$0.01425	\$0.00882	\$0.00495	\$0.00330	\$0.04824	\$0.04338	\$0.00055	\$0.04879	\$0.04393
G1	Customer Charge	\$108.86	Secondary Voltage					\$108.86	\$108.86		\$108.86	\$108.86
	Customer Charge	\$64.51	Primary Voltage					\$64.51	\$64.51		\$64.51	\$64.51
	All kVA	\$5.69			\$2.25	\$1.24		\$7.94	\$6.93		\$7.94	\$6.93
	All kWh	\$0.00000	\$0.01524	\$0.01425	\$0.00267	\$0.00147	\$0.00330	\$0.02121	\$0.01902	\$0.00055	\$0.02176	\$0.01957
ALL GENERAL	Transformer Ownership Credit (kW/kVa)										(\$0.35)	(\$0.35)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)										2.00%	2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)										3.50%	3.50%

(1) Includes low-income portion of \$0.00150 per kWh and energy efficiency portion of \$0.00180 per kWh

* Authorized by NHPUC Order No. 24,742 in Case No. DE 05-178, dated April 13, 2007

** Authorized by NHPUC Order No. 24,851 in Case No. DE 08-040, dated April 23, 2008

*** Authorized by NHPUC Order No. 24,889 in Case No. DE 08-092, dated August 29, 2008

**** Authorized by NHPUC Order No. 24,903 in Case No. DE 08-097, dated September 30, 2008

Issued: July 14, 2009October 1, 2008

Effective: August 1, 2009October 1, 2008

Issued By: Mark H. Collin

Treasurer

NHPUC No. 3 - Electricity Delivery

Seventh Revised Page 5

Unitil Energy Systems, Inc.

Superseding Sixth Revised Page 5

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax) (continued)

<u>Class</u>	<u>Distribution Charge*</u>	(R) <u>External Delivery Charge***</u>	(R) <u>Stranded Cost Charge**</u>	(R) <u>System Benefits Charge****</u> (1)	(R) <u>Total Delivery Charges</u>	Electricity <u>Consumption Tax</u>	(R) <u>Effective Delivery Rates</u> (Incl. Electricity <u>Consumption Tax</u>)
OL							
All kWh	\$0.00000	\$0.01524 \$0.01425	\$0.00882 \$0.00495	\$0.00330	\$0.02736 \$0.02250	\$0.00055	\$0.02791 \$0.02305

Luminaire Charges

<u>Lamp Size</u>		<u>Monthly kWh</u>	<u>Description</u>	<u>Price Per Luminaire</u>	
<u>Nominal Watts</u>	<u>Lumens (Approx.)</u>			<u>Per Mo.</u>	<u>Per Year</u>
100	3,500	40	Mercury Vapor Street	\$7.88	\$94.56
175	7,000	67	Mercury Vapor Street	\$9.54	\$114.48
250	11,000	95	Mercury Vapor Street	\$10.95	\$131.40
400	20,000	154	Mercury Vapor Street	\$13.23	\$158.76
1,000	60,000	388	Mercury Vapor Street	\$27.29	\$327.48
250	11,000	95	Mercury Vapor Flood	\$11.73	\$140.76
400	20,000	154	Mercury Vapor Flood	\$14.24	\$170.88
1,000	60,000	388	Mercury Vapor Flood	\$24.26	\$291.12
100	3,500	40	Mercury Vapor Power Bracket	\$7.96	\$95.52
175	7,000	67	Mercury Vapor Power Bracket	\$8.94	\$107.28
50	4,000	21	Sodium Vapor Street	\$8.04	\$96.48
100	9,500	43	Sodium Vapor Street	\$9.18	\$110.16
150	16,000	60	Sodium Vapor Street	\$9.22	\$110.64
250	30,000	101	Sodium Vapor Street	\$11.82	\$141.84
400	50,000	161	Sodium Vapor Street	\$15.16	\$181.92
1,000	140,000	398	Sodium Vapor Street	\$26.94	\$323.28
150	16,000	60	Sodium Vapor Flood	\$10.79	\$129.48
250	30,000	101	Sodium Vapor Flood	\$12.90	\$154.80
400	50,000	161	Sodium Vapor Flood	\$14.80	\$177.60
1,000	140,000	398	Sodium Vapor Flood	\$27.18	\$326.16
50	4,000	21	Sodium Vapor Power Bracket	\$7.37	\$88.44
100	9,500	43	Sodium Vapor Power Bracket	\$8.39	\$100.68

(1) Includes low-income portion of \$0.00150 per kWh and energy efficiency portion of \$0.00180 per kWh.

* Authorized by NHPUC Order No. 24,742 in Case No. DE 05-178, dated April 13, 2007

~~** Authorized by NHPUC Order No. 24,851 in Case No. DE 08-040, dated April 23, 2008~~~~*** Authorized by NHPUC Order No. 24,889 in Case No. DE 08-092, dated August 29, 2008~~

**** Authorized by NHPUC Order No. 24,903 in Case No. DE 08-097, dated September 30, 2008

Issued: July 14, 2009 ~~October 1, 2008~~Effective: August 1, 2009 ~~October 1, 2008~~

Issued By: Mark H. Collin

Treasurer

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

Ninth Revised Page 6
 Superseding Eighth Revised Page 6

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

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

(R)

<u>Rate D</u>					
<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)	(\$0.42)
			First 250 kWh	(\$0.00658)	(\$0.00634)
			Excess 250 kWh	(\$0.00683)	(\$0.00659)
2	151 - 175	7%	Customer Charge	(\$0.59)	(\$0.59)
			First 250 kWh	(\$0.00921)	(\$0.00887)
			Excess 250 kWh	(\$0.00956)	(\$0.00922)
3	126 - 150	18%	Customer Charge	(\$1.51)	(\$1.51)
			First 250 kWh	(\$0.02370)	(\$0.02282)
			Excess 250 kWh	(\$0.02460)	(\$0.02372)
4	101 - 125	33%	Customer Charge	(\$2.77)	(\$2.77)
			First 250 kWh	(\$0.04344)	(\$0.04184)
			Excess 250 kWh	(\$0.04509)	(\$0.04349)
5	76 - 100	48%	Customer Charge	(\$4.03)	(\$4.03)
			First 250 kWh	(\$0.06319)	(\$0.06085)
			Excess 250 kWh	(\$0.06559)	(\$0.06325)
6	0 - 75	70%	Customer Charge	(\$5.88)	(\$5.88)
			First 250 kWh	(\$0.09215)	(\$0.08875)
			Excess 250 kWh	(\$0.09565)	(\$0.09225)

(1) Total utility charges from Page 4 (excluding the Electricity Consumption Tax) plus
 Non-G1 class Fixed Default Service Rate multiplied by the appropriate discount.

~~Authorized by NHPUC Order No. 24,949 in Case No. DE 09-009, dated March 20, 2009~~

Issued: July 14, 2009 ~~March 24, 2009~~
 Effective: August ~~May~~ 1, 2009

Issued By: Mark H. Collin
 Treasurer

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

Residential Rate D 500 kWh Bill

	5/1/2009	8/1/2009					%
<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	\$0.01810	\$0.01810	\$0.00000	\$4.53	\$4.53	\$0.00	0.0%
Excess 250 kWh	\$0.02310	\$0.02310	\$0.00000	\$5.78	\$5.78	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$7.62	\$7.13	(\$0.50)	-0.7%
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	\$4.41	\$2.48	(\$1.94)	-2.6%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$1.65	\$1.65	\$0.00	0.0%
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	<u>\$43.09</u>	<u>\$43.09</u>	<u>\$0.00</u>	<u>0.0%</u>
First 250 kWh	\$0.13164	\$0.12678	(\$0.00486)				
Excess 250 kWh	\$0.13664	\$0.13178	(\$0.00486)				
Total Bill				\$75.47	\$73.04	(\$2.43)	-3.2%

* Impacts do not include the Electricity Consumption Tax.

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

<u>Regular General G2 Quick Recovery Water Heating and Space Heating 2,000 kWh Typical Bill</u>							
	5/1/2009	8/1/2009					%
<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%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.02088	\$0.02088	\$0.00000	\$41.76	\$41.76	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$30.48	\$28.50	(\$1.98)	-0.7%
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	\$17.64	\$9.90	(\$7.74)	-2.8%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$6.60	\$6.60	\$0.00	0.0%
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	<u>\$172.36</u>	<u>\$172.36</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.13442	\$0.12956	(\$0.00486)	\$268.84	\$259.12	(\$9.72)	-3.6%
Total Bill				\$272.59	\$262.87	(\$9.72)	-3.6%

<u>Regular General G2 kWh Meter 125 kWh Typical Bill</u>							
	5/1/2009	8/1/2009					%
<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	\$0.02975	\$0.02975	\$0.00000	\$3.72	\$3.72	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$1.91	\$1.78	(\$0.12)	-0.5%
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	\$1.10	\$0.62	(\$0.48)	-1.8%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$0.41	\$0.41	\$0.00	0.0%
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	<u>\$10.77</u>	<u>\$10.77</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.14329	\$0.13843	(\$0.00486)	\$17.91	\$17.30	(\$0.61)	-2.3%
Total Bill				\$26.31	\$25.70	(\$0.61)	-2.3%

* Impacts do not include the Electricity Consumption Tax.

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

<u>Regular General G2 Demand, 10 kW, 3,000 kWh Typical Bill</u>							
	5/1/2009	8/1/2009					%
<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%
	<u>All kW</u>	<u>All kW</u>					
Distribution Charge	\$7.03	\$7.03	\$0.00	\$70.30	\$70.30	\$0.00	0.0%
Stranded Cost Charge	<u>\$1.55</u>	<u>\$0.87</u>	<u>(\$0.68)</u>	<u>\$15.50</u>	<u>\$8.70</u>	<u>(\$6.80)</u>	<u>-1.6%</u>
Total	\$8.58	\$7.90	(\$0.68)	\$85.80	\$79.00	(\$6.80)	-1.6%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$45.72	\$42.75	(\$2.97)	-0.7%
Stranded Cost Charge	\$0.00298	\$0.00167	(\$0.00131)	\$8.94	\$5.01	(\$3.93)	-0.9%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$9.90	\$9.90	\$0.00	0.0%
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	<u>\$258.54</u>	<u>\$258.54</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.10770	\$0.10540	(\$0.00230)	\$323.10	\$316.20	(\$6.90)	-1.6%
Total Bill				\$419.90	\$406.20	(\$13.70)	-3.3%

<u>Large General - G1 550 kVa, 200,000 kWh Typical Bill</u>							
	5/1/2009	8/1/2009					%
<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%
	<u>All kVa</u>	<u>All kVa</u>					
Distribution Charge	\$5.69	\$5.69	\$0.00	\$3,129.50	\$3,129.50	\$0.00	0.0%
Stranded Cost Charge	<u>\$2.25</u>	<u>\$1.24</u>	<u>(\$1.01)</u>	<u>\$1,237.50</u>	<u>\$682.00</u>	<u>(\$555.50)</u>	<u>-2.4%</u>
Total	\$7.94	\$6.93	(\$1.01)	\$4,367.00	\$3,811.50	(\$555.50)	-2.4%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$3,048.00	\$2,850.00	(\$198.00)	-0.8%
Stranded Cost Charge	\$0.00267	\$0.00147	(\$0.00120)	\$534.00	\$294.00	(\$240.00)	-1.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$660.00	\$660.00	\$0.00	0.0%
Default Service Charge	<u>\$0.07394</u>	<u>\$0.07205</u>	<u>(\$0.00189)</u>	<u>\$14,788.00</u>	<u>\$14,410.00</u>	<u>(\$378.00)</u>	<u>-1.6%</u>
Total	\$0.09515	\$0.09107	(\$0.00408)	\$19,030.00	\$18,214.00	(\$816.00)	-3.5%
Total Bill				\$23,505.86	\$22,134.36	(\$1,371.50)	-5.8%

* Impacts do not include the Electricity Consumption Tax. For the G1 Class, the proposed bill includes Default Service rates approved in DE 09-009. Default Service Charges shown are based on the average of the DSC for each 3-month period

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

Residential Rate D 662 kWh Bill - Mean Use*

	5/1/2009	8/1/2009					%
<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	\$0.01810	\$0.01810	\$0.00000	\$4.53	\$4.53	\$0.00	0.0%
Excess 250 kWh	\$0.02310	\$0.02310	\$0.00000	\$9.52	\$9.52	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$10.09	\$9.43	(\$0.66)	-0.7%
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	\$5.84	\$3.28	(\$2.56)	-2.6%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.18	\$2.18	\$0.00	0.0%
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	<u>\$57.05</u>	<u>\$57.05</u>	<u>\$0.00</u>	<u>0.0%</u>
First 250 kWh	\$0.13164	\$0.12678	(\$0.00486)				
Excess 250 kWh	\$0.13664	\$0.13178	(\$0.00486)				
Total Bill				\$97.61	\$94.39	(\$3.22)	-3.3%

Residential Rate D 553 kWh Bill - Median Use*

	5/1/2009	8/1/2009					%
<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	\$0.01810	\$0.01810	\$0.00000	\$4.53	\$4.53	\$0.00	0.0%
Excess 250 kWh	\$0.02310	\$0.02310	\$0.00000	\$7.00	\$7.00	\$0.00	0.0%
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	\$8.43	\$7.88	(\$0.55)	-0.7%
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	\$4.88	\$2.74	(\$2.14)	-2.6%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$1.82	\$1.82	\$0.00	0.0%
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	<u>\$47.66</u>	<u>\$47.66</u>	<u>\$0.00</u>	<u>0.0%</u>
First 250 kWh	\$0.13164	\$0.12678	(\$0.00486)				
Excess 250 kWh	\$0.13664	\$0.13178	(\$0.00486)				
Total Bill				\$82.71	\$80.02	(\$2.69)	-3.2%

* Based on billing period March 2008 through February 2009.

** Impacts do not include the Electricity Consumption Tax.

Unitil Energy Systems, Inc.
Average Class Bill Impacts
Due to Proposed Rate Changes Effective August 1, 2009

(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>Proposed SCC Change \$</u>	(G) <u>Proposed EDC Change \$</u>	(H) <u>Estimated Annual Revenue \$ Under Present Rates</u>	(I) <u>Estimated Annual Revenue \$ Under Proposed Rates</u>	(J) <u>Proposed Net Change Revenue \$</u>	(K) <u>% Change DSC Revenue</u>	(L) <u>% Change Net SCC & EDC Revenue</u>	(M) <u>% Change Net Revenue</u>
Residential	738,543	486,378,217	n/a	\$0	(\$1,882,284)	(\$481,514)	\$71,817,944	\$69,454,146	(\$2,363,798)	0.0%	(3.3%)	(3.3%)
General Service	125,046	354,008,286	1,298,686	\$0	(\$1,370,012)	(\$350,468)	\$50,804,944	\$49,084,464	(\$1,720,480)	0.0%	(3.4%)	(3.4%)
Large General Service	1,822	364,679,187	996,528	(\$689,244)	(\$1,411,308)	(\$361,032)	\$42,640,864	\$40,179,279	(\$2,461,585)	(1.6%)	(4.2%)	(5.8%)
Outdoor Lighting	117,884	9,206,974	n/a	\$0	(\$35,631)	(\$9,115)	\$2,282,156	\$2,237,410	(\$44,746)	0.0%	(2.0%)	(2.0%)
Total	983,295	1,214,272,664		(\$689,244)	(\$4,699,235)	(\$1,202,130)	\$167,545,908	\$160,955,299	(\$6,590,609)	(0.4%)	(3.5%)	(3.9%)

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

(E), (F), (G) Difference in proposed rate and current rate, times the billing determinants shown in Column (C). The DSC for the G1 class used in this analysis are based on the average of the DSC for each 3-month period, comparing the recently approved Aug-Oct 2009 average rate to the current May-Jul 2009 average rate.

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

(I) Sum of Columns (E) through (H)

(J) Column (I) minus Column (H)

(K) Column (E) divided by Column (H)

(L) Column (F) + Column (G) divided by Column (H)

(M) Column (J) divided by Column (H)

Unitil Energy Systems, Inc. Typical Bill Impacts - May 1, 2009 versus August 1, 2009 Impacts do NOT include the Electricity Consumption Tax Impact on D Rate Customers				
Average kWh	Total Bill Using Rates 5/1/2009	Total Bill Using Rates 8/1/2009	Total Difference	% Total Difference
125	\$24.86	\$24.25	(\$0.61)	(2.4%)
250	\$41.31	\$40.10	(\$1.22)	(2.9%)
500	\$75.47	\$73.04	(\$2.43)	(3.2%)
600	\$89.13	\$86.22	(\$2.92)	(3.3%)
750	\$109.63	\$105.99	(\$3.65)	(3.3%)
1,000	\$143.79	\$138.93	(\$4.86)	(3.4%)
1,250	\$177.95	\$171.88	(\$6.08)	(3.4%)
1,500	\$212.11	\$204.82	(\$7.29)	(3.4%)
2,000	\$280.43	\$270.71	(\$9.72)	(3.5%)
3,500	\$485.39	\$468.38	(\$17.01)	(3.5%)
5,000	\$690.35	\$666.05	(\$24.30)	(3.5%)
	Rates - Effective May 1, 2009	Rates - Proposed August 1, 2009	Difference	
Customer Charge	\$8.40	\$8.40	\$0.00	
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>	
Distribution Charge: First 250 kWh	\$0.01810	\$0.01810	\$0.00000	
Excess 250 kWh	\$0.02310	\$0.02310	\$0.00000	
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	
TOTAL First 250 kWh	\$0.13164	\$0.12678	(\$0.00486)	
Excess 250 kWh	\$0.13664	\$0.13178	(\$0.00486)	

Unitil Energy Systems, Inc.						
Typical Bill Impacts - May 1, 2009 versus August 1, 2009						
Impacts do NOT include the Electricity Consumption Tax						
Impact on G2 Rate Customers						
Load Factor	Average Monthly kW	Average Monthly kWh	Total Bill Using Rates 5/1/2009	Total Bill Using Rates 8/1/2009	Total Difference	% Total Difference
20%	5	730	\$132.52	\$127.44	(\$5.08)	(3.8%)
20%	10	1,460	\$254.04	\$243.88	(\$10.16)	(4.0%)
20%	15	2,190	\$375.56	\$360.33	(\$15.24)	(4.1%)
20%	25	3,650	\$618.61	\$593.21	(\$25.40)	(4.1%)
20%	50	7,300	\$1,226.21	\$1,175.42	(\$50.79)	(4.1%)
20%	75	10,950	\$1,833.82	\$1,757.63	(\$76.18)	(4.2%)
20%	100	14,600	\$2,441.42	\$2,339.84	(\$101.58)	(4.2%)
20%	150	21,900	\$3,656.63	\$3,504.26	(\$152.37)	(4.2%)
36%	5	1,314	\$195.42	\$189.00	(\$6.42)	(3.3%)
36%	10	2,628	\$379.84	\$366.99	(\$12.84)	(3.4%)
36%	15	3,942	\$564.25	\$544.99	(\$19.27)	(3.4%)
36%	25	6,570	\$933.09	\$900.98	(\$32.11)	(3.4%)
36%	50	13,140	\$1,855.18	\$1,790.96	(\$64.22)	(3.5%)
36%	75	19,710	\$2,777.27	\$2,680.93	(\$96.33)	(3.5%)
36%	100	26,280	\$3,699.36	\$3,570.91	(\$128.44)	(3.5%)
36%	150	39,420	\$5,543.53	\$5,350.87	(\$192.67)	(3.5%)
50%	5	1,825	\$250.45	\$242.86	(\$7.60)	(3.0%)
50%	10	3,650	\$489.91	\$474.71	(\$15.20)	(3.1%)
50%	15	5,475	\$729.36	\$706.57	(\$22.79)	(3.1%)
50%	25	9,125	\$1,208.26	\$1,170.28	(\$37.99)	(3.1%)
50%	50	18,250	\$2,405.53	\$2,329.55	(\$75.97)	(3.2%)
50%	75	27,375	\$3,602.79	\$3,488.83	(\$113.96)	(3.2%)
50%	100	36,500	\$4,800.05	\$4,648.10	(\$151.95)	(3.2%)
50%	150	54,750	\$7,194.58	\$6,966.65	(\$227.92)	(3.2%)
	Rates - Effective May 1, 2009	Rates - Proposed August 1, 2009	Difference			
Customer Charge	\$11.00	\$11.00	\$0.00			
	All kW	All kW	All kW			
Distribution Charge	\$7.03	\$7.03	\$0.00			
Stranded Cost Charge	\$1.55	\$0.87	(\$0.68)			
TOTAL	\$8.58	\$7.90	(\$0.68)			
	kWh	kWh	kWh			
Distribution Charge	\$0.00000	\$0.00000	\$0.00000			
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)			
Stranded Cost Charge	\$0.00298	\$0.00167	(\$0.00131)			
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000			
Default Service Charge	\$0.08618	\$0.08618	\$0.00000			
TOTAL	\$0.10770	\$0.10540	(\$0.00230)			

Unitil Energy Systems, Inc. Typical Bill Impacts - May 1, 2009 versus August 1, 2009 Impacts do NOT include the Electricity Consumption Tax Impact on G2 kWh Meter Rate Customers				
Average Monthly kWh	Total Bill Using Rates 5/1/2009	Total Bill Using Rates 8/1/2009	Total Difference	% Total Difference
15	\$10.55	\$10.48	(\$0.07)	(0.7%)
75	\$19.15	\$18.78	(\$0.36)	(1.9%)
150	\$29.89	\$29.16	(\$0.73)	(2.4%)
250	\$44.22	\$43.01	(\$1.22)	(2.7%)
350	\$58.55	\$56.85	(\$1.70)	(2.9%)
450	\$72.88	\$70.69	(\$2.19)	(3.0%)
550	\$87.21	\$84.54	(\$2.67)	(3.1%)
650	\$101.54	\$98.38	(\$3.16)	(3.1%)
750	\$115.87	\$112.22	(\$3.65)	(3.1%)
900	\$137.36	\$132.99	(\$4.37)	(3.2%)
	Rates - Effective May 1, 2009	Rates - Proposed August 1, 2009	Difference	
kWh Meter Customer Charge	\$8.40	\$8.40	\$0.00	
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>	
Distribution Charge	\$0.02975	\$0.02975	\$0.00000	
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	
TOTAL	\$0.14329	\$0.13843	(\$0.00486)	

Unitil Energy Systems, Inc. Typical Bill Impacts - May 1, 2009 versus August 1, 2009 Impacts do NOT include the Electricity Consumption Tax Impact on G2 QRWH and SH Rate Customers				
Average kWh	Total Bill Using Rates 5/1/2009	Total Bill Using Rates 8/1/2009	Total Difference	% Total Difference
100	\$17.19	\$16.71	(\$0.49)	(2.8%)
200	\$30.63	\$29.66	(\$0.97)	(3.2%)
300	\$44.08	\$42.62	(\$1.46)	(3.3%)
400	\$57.52	\$55.57	(\$1.94)	(3.4%)
500	\$70.96	\$68.53	(\$2.43)	(3.4%)
750	\$104.57	\$100.92	(\$3.65)	(3.5%)
1,000	\$138.17	\$133.31	(\$4.86)	(3.5%)
1,500	\$205.38	\$198.09	(\$7.29)	(3.5%)
2,000	\$272.59	\$262.87	(\$9.72)	(3.6%)
2,500	\$339.80	\$327.65	(\$12.15)	(3.6%)
	Rates - Effective May 1, 2009	Rates - Proposed August 1, 2009	Difference	
Customer Charge	\$3.75	\$3.75	\$0.00	
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>	
Distribution Charge	\$0.02088	\$0.02088	\$0.00000	
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)	
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)	
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>	
TOTAL	\$0.13442	\$0.12956	(\$0.00486)	

Unitil Energy Systems, Inc.						
Typical Bill Impacts - May 1, 2009 versus August 1, 2009						
Impacts do NOT include the Electricity Consumption Tax						
Impact on G1 Rate Customers						
Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 5/1/2009	Total Bill Using Rates 8/1/2009	Total Difference	% Total Difference
25.0%	200	36,500	\$5,169.84	\$4,818.92	(\$350.92)	(6.8%)
25.0%	400	73,000	\$10,230.81	\$9,528.97	(\$701.84)	(6.9%)
25.0%	600	109,500	\$15,291.79	\$14,239.03	(\$1,052.76)	(6.9%)
25.0%	800	146,000	\$20,352.76	\$18,949.08	(\$1,403.68)	(6.9%)
25.0%	1,000	182,500	\$25,413.74	\$23,659.14	(\$1,754.60)	(6.9%)
25.0%	1,500	273,750	\$38,066.17	\$35,434.27	(\$2,631.90)	(6.9%)
25.0%	2,000	365,000	\$50,718.61	\$47,209.41	(\$3,509.20)	(6.9%)
25.0%	2,500	456,250	\$63,371.05	\$58,984.55	(\$4,386.50)	(6.9%)
25.0%	3,000	547,500	\$76,023.49	\$70,759.69	(\$5,263.80)	(6.9%)
40.0%	200	58,400	\$7,253.62	\$6,813.35	(\$440.27)	(6.1%)
40.0%	400	116,800	\$14,398.38	\$13,517.84	(\$880.54)	(6.1%)
40.0%	600	175,200	\$21,543.14	\$20,222.32	(\$1,320.82)	(6.1%)
40.0%	800	233,600	\$28,687.90	\$26,926.81	(\$1,761.09)	(6.1%)
40.0%	1,000	292,000	\$35,832.66	\$33,631.30	(\$2,201.36)	(6.1%)
40.0%	1,500	438,000	\$53,694.56	\$50,392.52	(\$3,302.04)	(6.1%)
40.0%	2,000	584,000	\$71,556.46	\$67,153.74	(\$4,402.72)	(6.2%)
40.0%	2,500	730,000	\$89,418.36	\$83,914.96	(\$5,503.40)	(6.2%)
40.0%	3,000	876,000	\$107,280.26	\$100,676.18	(\$6,604.08)	(6.2%)
57.0%	200	83,220	\$9,615.24	\$9,073.71	(\$541.54)	(5.6%)
57.0%	400	166,440	\$19,121.63	\$18,038.55	(\$1,083.08)	(5.7%)
57.0%	600	249,660	\$28,628.01	\$27,003.40	(\$1,624.61)	(5.7%)
57.0%	800	332,880	\$38,134.39	\$35,968.24	(\$2,166.15)	(5.7%)
57.0%	1,000	416,100	\$47,640.78	\$44,933.09	(\$2,707.69)	(5.7%)
57.0%	1,500	624,150	\$71,406.73	\$67,345.20	(\$4,061.53)	(5.7%)
57.0%	2,000	832,200	\$95,172.69	\$89,757.31	(\$5,415.38)	(5.7%)
57.0%	2,500	1,040,250	\$118,938.65	\$112,169.43	(\$6,769.22)	(5.7%)
57.0%	3,000	1,248,300	\$142,704.61	\$134,581.54	(\$8,123.06)	(5.7%)
71.0%	200	103,660	\$11,560.11	\$10,935.18	(\$624.93)	(5.4%)
71.0%	400	207,320	\$23,011.36	\$21,761.49	(\$1,249.87)	(5.4%)
71.0%	600	310,980	\$34,462.61	\$32,587.81	(\$1,874.80)	(5.4%)
71.0%	800	414,640	\$45,913.86	\$43,414.12	(\$2,499.73)	(5.4%)
71.0%	1,000	518,300	\$57,365.11	\$54,240.44	(\$3,124.66)	(5.4%)
71.0%	1,500	777,450	\$85,993.23	\$81,306.23	(\$4,687.00)	(5.5%)
71.0%	2,000	1,036,600	\$114,621.35	\$108,372.02	(\$6,249.33)	(5.5%)
71.0%	2,500	1,295,750	\$143,249.47	\$135,437.81	(\$7,811.66)	(5.5%)
71.0%	3,000	1,554,900	\$171,877.60	\$162,503.60	(\$9,373.99)	(5.5%)
			Rates - Effective May 1, 2009	Rates - Proposed August 1, 2009	Difference	
Customer Charge			\$108.86	\$108.86	\$0.00	
			All kVA	All kVA	All kVA	
Distribution Charge			\$5.69	\$5.69	\$0.00	
Stranded Cost Charge			\$2.25	\$1.24	(\$1.01)	
TOTAL			\$7.94	\$6.93	(\$1.01)	
			All kWh	All kWh	All kWh	
Distribution Charge			\$0.00000	\$0.00000	\$0.00000	
External Delivery Charge			\$0.01524	\$0.01425	(\$0.00099)	
Stranded Cost Charge			\$0.00267	\$0.00147	(\$0.00120)	
System Benefits Charge			\$0.00330	\$0.00330	\$0.00000	
Default Service Charge*			\$0.07394	\$0.07205	(\$0.00189)	
TOTAL			\$0.09515	\$0.09107	(\$0.00408)	
* Default Service Charges shown are based on the average of the DSC for each 3-month period.						

Unitil Energy Systems, Inc. Typical Bill Impacts - May 1, 2009 versus August 1, 2009 Impacts do NOT include the Electricity Consumption Tax Impact on OL Rate Customers							
	Nominal Watts	Lumens	Average Monthly kWh	Total Bill Using Rates 5/1/2009	Total Bill Using Rates 8/1/2009	Total Difference	% Total Difference
<u>Mercury Vapor:</u>							
1	100	3,500	40	\$12.42	\$12.23	(\$0.19)	(1.6%)
2	175	7,000	67	\$17.15	\$16.82	(\$0.33)	(1.9%)
3	250	11,000	95	\$21.74	\$21.27	(\$0.46)	(2.1%)
4	400	20,000	154	\$30.72	\$29.97	(\$0.75)	(2.4%)
5	1,000	60,000	388	\$71.34	\$69.46	(\$1.89)	(2.6%)
6	250	11,000	95	\$22.52	\$22.05	(\$0.46)	(2.1%)
7	400	20,000	154	\$31.73	\$30.98	(\$0.75)	(2.4%)
8	1,000	60,000	388	\$68.31	\$66.43	(\$1.89)	(2.8%)
9	100	3,500	40	\$12.50	\$12.31	(\$0.19)	(1.6%)
10	175	7,000	67	\$16.55	\$16.22	(\$0.33)	(2.0%)
<u>High Pressure Sodium:</u>							
11	50	4,000	21	\$10.42	\$10.32	(\$0.10)	(1.0%)
12	100	9,500	43	\$14.06	\$13.85	(\$0.21)	(1.5%)
13	150	16,000	60	\$16.03	\$15.74	(\$0.29)	(1.8%)
14	250	30,000	101	\$23.29	\$22.80	(\$0.49)	(2.1%)
15	400	50,000	161	\$33.44	\$32.66	(\$0.78)	(2.3%)
16	1,000	140,000	398	\$72.13	\$70.19	(\$1.93)	(2.7%)
17	150	16,000	60	\$17.60	\$17.31	(\$0.29)	(1.7%)
18	250	30,000	101	\$24.37	\$23.88	(\$0.49)	(2.0%)
19	400	50,000	161	\$33.08	\$32.30	(\$0.78)	(2.4%)
20	1,000	140,000	398	\$72.37	\$70.43	(\$1.93)	(2.7%)
21	50	4,000	21	\$9.75	\$9.65	(\$0.10)	(1.0%)
22	100	95,000	43	\$13.27	\$13.06	(\$0.21)	(1.6%)

	Rates - Effective May 1, 2009	Rates - Proposed August 1, 2009	Difference
Customer Charge	\$0.00	\$0.00	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.01524	\$0.01425	(\$0.00099)
Stranded Cost Charge	\$0.00882	\$0.00495	(\$0.00387)
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge	<u>\$0.08618</u>	<u>\$0.08618</u>	<u>\$0.00000</u>
TOTAL	\$0.11354	\$0.10868	(\$0.00486)

<u>Luminaire Charges For Year Round Service:</u>			
	<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

1 Docket No. DE 08-040. Rather than present partial data beginning with February
2 2008, UES is presenting the full period.

3
4 Q. How do estimated EDC Costs beginning May 2009 through July 2010 compare to
5 those which were estimated for February 2008 through April 2009 in Docket No.
6 DE 08-040 and revised in Docket No. DE 08-092?

7 A. Please refer to the Table 2 on the next page for an itemized comparison of cost
8 projections.

Table 2. Comparison of EDC Cost Estimates Unitil Energy Systems, Inc.				
Line No.	Line Item Description	Prior Estimate Feb 2008 - Apr 2009	Current Estimate May 2009 - July 2010	Change in Estimates
1.	Third Party Transmission Providers (NU Network Integration Transmission Service)	\$2,876,923	\$665,030	(\$2,211,893)
2.	Regional Transmission and Operating Entities	\$12,760,629	\$17,537,706	\$4,777,077
3.	Third Party Transmission Providers (NU Wholesale Distribution)	\$3,841,187	\$3,679,544	(\$161,643)
4.	Transmission-based Assessments and Fees	\$8,389	\$2,000	(\$6,389)
5.	Load Estimation and Reporting System Costs	\$156,000	\$157,500	\$1,500
6.	Data and Information Services	\$18,750	\$18,750	\$0
7.	Legal Charges	\$90,000	\$74,500	(\$15,500)
8.	Consulting Outside Service Charges	\$0	\$0	\$0
9.	Administrative Service Charges	(\$22,075)	(\$34,235)	(\$12,160)
10.	Total External Delivery Costs	\$19,729,803	\$22,100,796	\$2,370,993

9

10 Q. Please explain the major increase in projected EDC costs.

1 A. I estimate Total External Delivery Costs for May 2009 through July 2 010 to be
2 \$2.4 million higher than I estimated for February 2008 though April 2009. The
3 cause of this increase is a \$4.8 million increase in Regional Transmission and
4 Operating Entities costs. The increase in Regional Transmission costs is partially
5 offset by decreases in estimated costs of NU Network Service and DDS, totally
6 approximately \$2.4 million.

7
8 This increase in Regional Transmission costs represents a 37% increase in
9 Regional Transmission costs over the prior period estimate, due to an increa se in
10 the Regional Network Service rate effective June 1, 2009. The increase in the
11 Regional Network Service rate continues a trend of increasing transmission rates
12 due to major investment in transmission infrastructure in New England. This
13 investment has been required for transmission system reliability purposes.
14 Increased transmission investment has the effect of increasing the amount UES
15 pays for both NU Network Service and Regional Transmission.

16
17 The decrease of \$2.2 million in estimated NU Network Service costs is due to a
18 decrease in the annual true-up costs included in the prior estimate and a decrease
19 in NU's estimate of its revenue requirement effective June 1, 2009. The NU
20 Network Service true-up for 2007 was in excess of \$1 million. The NU Network
21 Service true-up for 2008 is expected to decrease to approximately \$ 239,650. In
22 discussion with NU regarding the decrease in NU's estimate of its revenue
23 requirement, I have learned that NU expects higher revenue credits from the ISO

1 through the Regional Network Service rate due to the true-up of NU's estimated
2 2008 revenue requirement to its actual 2008 revenue requirement.

3
4 The decrease of \$161,643 for DDS costs is due to a decrease in the minimum
5 billing determinant due to a decrease in the annual peak system loads.

6

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

8 A. I estimate that UES will incur \$74,500 in EDC legal costs for the period
9 beginning May 2009 through July 2010. This amount includes UES' estimates
10 for monitoring FERC issuances and rulemakings, updates to Schedule 21-UES of
11 the ISO Tariff required in order to provide for the interconnection of a new
12 generator in UES' service territory, compliance with FERC's electronic tariff
13 requirements and the cost of this proceeding. EDC legal costs estimate excludes
14 any charges directly related to the design and implementation of Default Service
15 supply. Any legal costs associated with procurement of Default Service are
16 recovered through the Default Service Charge, in accordance with the settlement
17 agreement approved in DE 05-064.

18

19 Q. Please provide the detail behind the estimate for the Administrative Service
20 Charge.

21 A. Details regarding the ASC are provided in Schedule FXW-3 on lines 10 through
22 18. The ASC includes any costs incurred by UPC, relative to UPC's obligations
23 under the Amended Unitil System Agreement, which are not otherwise assigned

Docket No. DE 08-040. Rather than present partial data beginning with February 2008, UES is presenting the full period.

Q. How do estimated EDC Costs beginning May 2009 through July 2010 compare to those which were estimated for February 2008 through April 2009 in Docket No. DE 08-040 and revised in Docket No. DE 08-092?

A. Please refer to the Table 2 on the next page for an itemized comparison of cost projections.

Table 2. Comparison of EDC Cost Estimates Unitil Energy Systems, Inc.				
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3.	Third Party Transmission Providers (NU Wholesale Distribution)	\$3,841,187	\$3,679,544	(\$161,643)
4.	Transmission-based Assessments and Fees	\$8,389	\$2,000	(\$6,389)
5.	Load Estimation and Reporting System Costs	\$156,000	\$157,500	\$1,500
6.	Data and Information Services	\$18,750	\$18,750	\$0
7.	Legal Charges	\$90,000	\$74,500	(\$15,500)
8.	Consulting Outside Service Charges	\$0	\$0	\$0
9.	Administrative Service Charges	(\$22,075)	(\$34,235)	(\$12,160)
10.	Total External Delivery Costs	\$19,729,803	\$22,100,796	\$2,370,993

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Q. Please explain the major increase in projected EDC costs.

1 A. I estimate Total External Delivery Costs for May 2009 through July 2010 to be
2 ~~\$2.4~~ million higher than I estimated for February 2008 though April 2009. The
3 cause of this increase is a \$4.8 million increase in Regional Transmission and
4 Operating Entities costs. The increase in Regional Transmission costs is partially
5 offset by decreases in estimated costs of NU Network Service and DDS, totally
6 approximately ~~\$2.4~~ million.

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8 This increase in Regional Transmission costs represents a 37% increase in
9 Regional Transmission costs over the prior period estimate, due to an increase in
10 the Regional Network Service rate effective June 1, 2009. The increase in the
11 Regional Network Service rate continues a trend of increasing transmission rates
12 due to major investment in transmission infrastructure in New England. This
13 investment has been required for transmission system reliability purposes.
14 Increased transmission investment has the effect of increasing the amount UES
15 pays for both NU Network Service and Regional Transmission.

16
17 The decrease of ~~\$2.2~~ million in estimated NU Network Service costs is due to ~~a~~
18 decrease in the annual true-up costs included in the prior estimate ~~and a decrease~~
19 ~~in NU's estimate of its revenue requirement effective June 1, 2009~~. The NU
20 Network Service true-up for 2007 was in excess of \$1 million. The NU Network
21 Service true-up for 2008 is expected to decrease to approximately ~~\$239,650~~. ~~In~~
22 ~~discussion with NU regarding the decrease in NU's estimate of its revenue~~
23 ~~requirement, I have learned that NU expects higher revenue credits from the ISO~~

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Deleted: This decrease in annual true-up costs is partially offset by a projected increase in ongoing NU Network Service costs. At the time of this initial filing, the NU Network Service rates for effect beginning June 1, 2009 have not yet been provided to UES. When this data becomes available, I will revise the EDC cost budget and UES revise its rate calculations, if appropriate.

through the Regional Network Service rate due to the true-up of NU' s estimated
2008 revenue requirement to its actual 2008 revenue requirement.

The decrease of \$161,643 for DDS costs is due to a decrease in the minimum
billing determinant due to a decrease in the annual peak system loads.

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

A. I estimate that UES will incur \$74,500 in EDC legal costs for the period
beginning May 2009 through July 2010. This amount includes UES' estimates
for monitoring FERC issuances and rulemakings, updates to Schedule 21-UES of
the ISO Tariff required in order to provide for the interconnection of a new
generator in UES' service territory, compliance with FERC' s electronic tariff
requirements and the cost of this proceeding. EDC legal costs estimate excludes
any charges directly related to the design and implementation of Default Service
supply. Any legal costs associated with procurement of Default Service are
recovered through the Default Service Charge, in accordance with the settlement
agreement approved in DE 05-064.

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

A. Details regarding the ASC are provided in Schedule FXW-3 on lines 10 through
18. The ASC includes any costs incurred by UPC, relative to UPC' s obligations
under the Amended Unitil System Agreement, which are not otherwise assigned

Unitil Energy Systems, Inc.
Itemized Costs for External Delivery Reconciliation

Revised Schedule FXW-2
Page 3 of 4

		(a) Third Party Transmission Providers (NU Network Integration Transmission Service)	(b) Regional Transmission and Operating Entities	(c) Third Party Transmission Providers (NU Wholesale Distribution)	(d) Transmission- based Assessments and Fees	(e) Load Estimation and Reporting System Costs	(f) Data and Informatior Services	(g) Legal Charges	(h) Consulting Outside Service Charges	(i) Administrative Service Charges (1)	(j) Total Costs (sum a thru i)
	Vendor(s):	Northeast Utilities	ISO New England Inc., Regional Transmission Operator, Nepool	Northeast Utilities	Federal Energy Regulatory Commission	LOGICA INC.	Connecticut Municipal Electric Energy Cooperative	Dewey & LeBoeuf	N/A	Unitil Power Corp.	
May-08	Actual	\$133,261	\$855,724	\$228,512	\$0	\$10,423	\$1,250	\$0	\$0	(\$3,002)	\$1,226,168
Jun-08	Actual	\$107,178	\$1,077,073	\$298,178	\$0	\$10,430	\$1,250	\$0	\$215	(\$1,896)	\$1,492,427
Jul-08	Actual	\$1,124,817	\$906,647	\$298,676	\$1,739	\$10,441	\$1,250	\$24,700	\$0	(\$2,946)	\$2,365,323
Aug-08	Actual	\$98,839	\$905,742	\$248,944	\$0	\$0	\$1,250	\$0	\$0	(\$5,348)	\$1,249,426
Sep-08	Actual	\$106,928	\$833,705	\$248,232	\$0	\$21,207	\$1,250	\$2,907	\$0	(\$1,450)	\$1,212,778
Oct-08	Actual	\$96,049	\$745,388	\$213,605	\$0	\$10,614	\$0	\$7,914	\$127	(\$2,953)	\$1,070,745
Nov-08	Actual	\$96,466	\$798,695	\$214,899	\$0	\$10,619	\$2,500	\$0	\$0	(\$3,606)	\$1,119,574
Dec-08	Actual	\$113,910	\$881,669	\$237,110	\$0	\$10,626	\$1,250	\$5,488	\$0	\$33	\$1,250,085
Jan-09	Actual	\$86,924	\$812,599	\$231,418	\$0	\$0	\$1,250	\$3,750	\$0	(\$3,386)	\$1,132,554
Feb-09	Actual	\$268,080	\$930,503	\$223,617	\$0	\$21,268	\$1,250	\$4,343	\$0	\$2,542	\$1,451,602
Mar-09	Actual	\$164,755	\$842,603	\$214,437	\$0	\$10,639	\$1,250	\$0	\$0	(\$1,604)	\$1,232,080
Apr-09	Actual	\$164,077	\$717,089	\$217,048	\$0	\$10,494	\$1,250	\$6,340	\$0	\$44	\$1,116,342
May-09	Estimate	\$163,849	\$774,976	\$220,145	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,789)	\$1,170,430
Jun-09	Estimate	\$18,681	\$1,395,473	\$289,481	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,289)	\$1,715,596
Jul-09	Estimate	<u>\$258,331</u>	<u>\$1,399,118</u>	<u>\$290,270</u>	<u>\$0</u>	<u>\$10,500</u>	<u>\$1,250</u>	<u>\$8,500</u>	<u>\$0</u>	<u>(\$2,789)</u>	<u>\$1,965,180</u>
Total May-08 to Jul-09		\$3,002,144	\$13,877,003	\$3,674,572	\$1,739	\$158,260	\$18,750	\$68,941	\$342	(\$31,439)	\$20,770,312

(1) Breakdown of costs included in the Administrative Service Charge are presented in Schedule FXW-3.

Unitil Energy Systems, Inc.
Itemized Costs for External Delivery Reconciliation

Revised Schedule FXW-2
Page 4 of 4

		(a) Third Party Transmission Providers (NU Network Integration Transmission Service)	(b) Regional Transmission and Operating Entities	(c) Third Party Transmission Providers (NU Wholesale Distribution)	(d) Transmission- based Assessments and Fees	(e) Load Estimation and Reporting System Costs	(f) Data and Information Services	(g) Legal Charges	(h) Consulting Outside Service Charges	(i) Administrative Service Charges (1)	(j) Total Costs (sum a thru i)
	Vendor(s):	Northeast Utilities	ISO New England Inc., Regional Transmission Operator, Nepool	Northeast Utilities	Federal Energy Regulatory Commission	LOGICA INC.	Connecticut Municipal Electric Energy Cooperative	Dewey & LeBoeuf	N/A	Unitil Power Corp.	
Aug-09	Estimate	\$18,681	\$1,277,308	\$263,928	\$2,000	\$10,500	\$1,250	\$8,750	\$0	(\$2,789)	\$1,579,628
Sep-09	Estimate	\$18,681	\$1,182,650	\$243,458	\$0	\$10,500	\$1,250	\$8,750	\$0	(\$2,289)	\$1,463,000
Oct-09	Estimate	\$18,681	\$967,825	\$208,362	\$0	\$10,500	\$1,250	\$8,750	\$0	(\$2,789)	\$1,212,579
Nov-09	Estimate	\$18,681	\$1,066,488	\$218,338	\$0	\$10,500	\$1,250	\$8,750	\$0	(\$2,789)	\$1,321,218
Dec-09	Estimate	\$18,681	\$1,216,243	\$250,723	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,289)	\$1,497,608
Jan-10	Estimate	\$18,681	\$1,115,259	\$228,885	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,689)	\$1,374,386
Feb-10	Estimate	\$18,681	\$1,117,039	\$229,270	\$0	\$10,500	\$1,250	\$2,500	\$0	\$2,211	\$1,381,451
Mar-10	Estimate	\$18,681	\$1,070,480	\$219,201	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,289)	\$1,320,323
Apr-10	Estimate	\$18,681	\$991,198	\$214,238	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,789)	\$1,235,578
May-10	Estimate	\$18,681	\$1,039,397	\$218,058	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,789)	\$1,287,597
Jun-10	Estimate	\$18,681	\$1,460,946	\$292,348	\$0	\$10,500	\$1,250	\$2,500	\$0	(\$2,289)	\$1,783,935
Jul-10	Estimate	<u>\$18,681</u>	<u>\$1,463,305</u>	<u>\$292,839</u>	<u>\$0</u>	<u>\$10,500</u>	<u>\$1,250</u>	<u>\$8,500</u>	<u>\$0</u>	<u>(\$2,789)</u>	<u>\$1,792,286</u>
Total Aug-09 to Jul-10		\$224,170	\$13,968,139	\$2,879,649	\$2,000	\$126,000	\$15,000	\$61,000	\$0	(\$26,368)	\$17,249,589

(1) Breakdown of costs included in the Administrative Service Charge are presented in Schedule FXW-3.