UNITIL ENERGY SYSTEMS, INC.

DIRECT TESTIMONY OF LINDA S. MCNAMARA

New Hampshire Public Utilities Commission

Docket No. DE 17-038

April 3, 2017

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

INTRODUCTION

1 **I.**

1	A.	The purpose of my testimony is to present and explain the proposed changes to
2		UES's Default Service Charge ("DSC") effective June 1, 2017, as reflected in the
3		redline tariffs provided as Schedule LSM-1.
4		
5	Q.	Is UES proposing any other tariff changes for effect June 1, 2017?
6	A.	Yes. UES's Summary of Low-Income Electric Assistance Program Discounts,
7		incorporating the proposed June 1 Non-G1 (Residential) DSC, would also be
8		affected by this change. However, because other changes to this page are
9		currently pending in DE 16-384 for effect May 1, 2017, UES plans to file this in
10		compliance with a Commission order.
11		
12	III.	RETAIL RATE CALCULATIONS
13	Q.	What are the proposed Non-G1 Class DSC?
14	A.	As shown on Schedule LSM-1, Page 1, the proposed Residential Class fixed Non
15		G1 DSC is \$0.07886 (or 7.886¢) per kWh and the proposed G2 and Outdoor
16		Lighting ("OL") Class fixed Non-G1 DSC is \$0.07556 (or 7.556¢) per kWh for
17		the period June 1, 2017 through November 30, 2017. The proposed Residential
18		Class variable Non-G1 DSC and the proposed G2 and OL Class variable Non-G1
19		DSC for this same period are also shown on this page.
20		
21		The proposed DSC are comprised of two components, as shown on Schedule
22		LSM-1, Page 1: A Power Supply Charge and a Renewable Portfolio Standard

1		
2	Q.	What are the proposed Power Supply Charges and RPS Charge?
3	A.	For the period June 1, 2017 through November 30, 2017, the proposed Residential
4		Class fixed Non-G1 Power Supply Charge is \$0.07526 (or 7.526¢) per kWh, the
5		proposed G2 and OL Class fixed Non-G1 Power Supply Charge is \$0.07196 (or
6		7.196¢) per kWh, and the proposed fixed Non-G1 RPS Charge is \$0.00360 (or
7		0.360¢) per kWh. These figures, as well as the variable amounts for the same
8		period, are shown on Schedule LSM-1, Page 1.
9		
10	Q.	How do the Non-G1 fixed DSC rates compare to the current rate?
11	A.	The proposed Residential Class fixed Non-G1 DSC of \$0.07886 (or 7.886¢) per
12		kWh is an increase of \$0.00196 (or 0.196¢) per kWh from the current DSC of
13		\$0.07690 (or 7.690¢) per kWh. The proposed G2 and OL Class fixed Non-G1
14		DSC of \$0.07556 (or 7.556¢) per kWh is an increase of \$0.00232 (or 0.232¢) per
15		kWh from the current DSC of \$0.07324 (or 7.324¢) per kWh. These increases
16		reflect higher contract costs for the period June 1, 2017 through November 30,
17		2017 compared to the contract costs for the current period December 1, 2016
18		through May 31, 2017.
19		
20	Q.	Please describe the calculation of the Non-G1 class DSC.
21	A.	The rate calculations for the Non-G1 class Power Supply Charges, fixed and
22		variable, are provided on Schedule LSM-2, Page 1. The rate calculations for the

1 Non-G1 class RPS Charges, fixed and variable, are provided on Schedule LSM-3, 2 Page 1. Both charges are calculated in a similar manner. 3 4 Variable pricing is calculated by dividing the total costs for the month, including a 5 partial reconciliation of costs and revenues through February 28, 2017, by the 6 estimated monthly kWh purchases for the Residential Class and the G2 and OL 7 Class. An estimated loss factor of 6.4% is then added to arrive at the proposed 8 retail variable charges. Fixed pricing is calculated in a similar manner, except 9 that the calculation is based on each class's total for the entire six month period. 10 11 Q. Have you made any adjustments to the reconciliation balances included in 12 the Power Supply and RPS charges? 13 A. In order to determine the reconciliation amount included in the Non-G1 class 14 power supply charge, the reconciliation balance as of February 28, 2017 was 15 adjusted to recognize that estimated revenue in March, April, and May 2017 16 should excede costs for this same period by an estimated \$2,259,768. This 17 adjustment recognizes that estimated costs for March, April and May 2017 are 18 below the average cost for the entire period, December 2016-May 2017, while 19 revenue will be primarily based on the fixed Power Supply Charge, of which most 20 Non-G1 customers pay, and is determined using an average of costs for the entire 21 December 2016-May 2017 period. This adjustment brings the February 28, 2017 22 balance from \$2,384,997 to \$125,229.

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1		In order to determine the reconciliation amounts included in the Non-G1 class
2		RPS, the reconciliation balance as of February 28, 2017 was adjusted to account
3		for an estimate of RECs yet to be purchased. The Non-G1 class RPS
4		reconcilation balance also includes an adjustment to recognize that the current
5		RPS charges, in effect through May 31, 2017, include a credit for the
6		overcollection as of February 29, 2016.
7		
8		Since UES reconciles its costs on an annual basis, only a portion of the total
9		reconciliation balances are reflected in the proposed Power Supply and RPS rates.
10		UES apportioned the Power Supply balance and the RPS balance based on kWh
11		over the twelve month period June 2017 through May 2018. The Power Supply
12		reconciliation balance is further divided between the Residential Class and the
13		G2/OL Class, based on kWh. This calculation is provided on Page 1 of Schedule
14		LSM-2 for Power Supply and Page 1 of Schedule LSM-3 for RPS.
15		
16	Q.	Please explain the adjustment to the RPS reconciliation balance mentioned
17		above regarding the estimate of RECs yet to be purchased.
18	A.	This adjustment recognizes that RPS revenue includes recovery of estimated RPS
19		costs. However, these costs have not yet been fully paid but are being accrued.
20		In order to prevent refunding these amounts until all RECs for a given year have
21		been purchased, UES has added the amounts it has already collected in rates to
22		the reconciliation balance. This helps ensure that once the RPS compliance
23		period is complete, the proper balance is credited, or charged. Customers are

1 compensated for the timing differences between when RPS costs are collected 2 versus when they are actually paid via the working capital calculation. 3 4 Q. Have you provided details on the reconciliation? 5 A. Support for the February 28, 2017 Non-G1 class power supply reconciliation 6 balance is provided on Schedule LSM-2, Page 2. Support for the February 28, 7 2017 Non-G1 class RPS reconciliation balance is provided on Schedule LSM-3, 8 Page 2. As described above, those figures have been adjusted in order to arrive at 9 the figures for collecton beginning June 1, 2017. Details for costs for the period 10 March 2016 through February 2017 are provided on Page 3 of Schedule LSM-2 11 and LSM-3. Page 4 of Schedule LSM-2 and LSM-3 provides revenue details. 12 13 Q. How does UES account for credits to net metering customers? 14 A. The Company includes in the Total Non-G1 Class DS Supplier Charges, in the 15 Non-G1 Class Power Supply Charge, the amounts credited to, or paid to, small 16 customer generator net metering customers with an excess of 600 kWh banked at 17 the end of the March billing cycle who opt to be credited or paid in accordance 18 with the PUC 900 rules. In addition, UES includes any monthly amounts credited 19 to, or paid to, large customer generators or group net metering customers 20 including any required annual credit reconciliation in accordance with PUC 900. 21 For the period March 2016 through February 2017, these amounts totaled 22 \$14,299.46.

1		
2	Q.	Have you provided support for the total forecast costs shown on Page 1,
3		lines 2 and 10 of Schedule LSM-2?
4	A.	The details of forecasted costs for the period June through November 2017 are
5		provided on Schedule LSM-2, Page 5. Line items for the various costs
6		included in default service are shown and include: Non-G1 Class (Residential)
7		DS Supplier Charges, Non-G1 Class (G2 and OL) DS Supplier Charges, GIS
8		Support Payments, Supply Related Working Capital, Provision for
9		Uncollected Accounts, Internal Company Administrative Costs, Legal
10		Charges, Consulting Outside Service Charges, and the default service portion
11		of the annual PUC Assessment allocated to the Non-G1 Class.
12		
13	Q.	Have you provided support for the total forecast costs shown on Page 1,
14		line 2 of Schedule LSM-3?
15	A.	The details of forecasted costs for the period June through November 2017 are
16		provided on Schedule LSM-3, Page 5. Costs include RECs and the associated
17		working capital.
18		
19	Q.	How is working capital calculated?
20	A.	Working capital included in the Power Supply Charge equals the sum of
21		working capital for Non-G1 Class (Residential) DS Supplier Charges, plus

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20	Q.	What is the proposed G1 Class DSC?
19		
18		working capital calculation uses (288.59) days.
17		working capital calculation uses 26.55 days and the Non-G1 class RPS Charge
16		presented by Mr. Nawazelski. The Non-G1 class Power Supply Charge
15		of the 2016 Default Service and Renewable Energy Credits Lead Lag Study,
14		the RPS Charge for the period beginning June 1, 2017 both rely on the results
13		The calculation of working capital included in the Power Supply Charge and
12		
11		working capital requirement) and multiplying it by the prime rate.
10		the product of RECs and the number of days lead divided by 365 days (i.e. the
9		and is shown on Schedule LSM-3, Pages 3 and 5. It is calculated by taking
8		The calculation of working capital for RECs is included in the RPS Charge
7		
6		requirement) and multiplying it by the prime rate.
5		and the number of days lag divided by 365 days (i.e. the working capital
4		Non-G1 Class (G2 and OL) DS Supplier Charges plus GIS Support Payments
3		taking the product of Non-G1 Class (Residential) DS Supplier Charges plus
2		Payments, as shown on Schedule LSM-2, Pages 3 and 5. It is calculated by
1		Non-G1 Class (G2 and OL) DS Supplier Charges ¹ , plus GIS Support

¹ In actuals, the supplier charges are provided in total in the column "Total Non-G1 Class DS Supplier Charges".

1	A.	The proposed G1 class DSC are comprised of two components, as shown on
2		Schedule LSM-1, Page 3: A Power Supply Charge and a Renewable Portfolio
3		Standard ("RPS") Charge. The wholesale supplier charge included in the Power
4		Supply Charge will be determined each month based on the sum of fixed monthly
5		adders and variable energy prices, and therefore, the total DSC for the G1 class is
6		not known at this time.
7		
8	Q.	What is the proposed Power Supply Charge, exclusive of supplier charges,
9		and RPS Charge?
10	A.	Schedule LSM-1, Page 3, shows the proposed G1 Power Supply Charges,
11		excluding the supplier charge component, of \$0.00793 (or 0.793¢) per kWh in
12		June through November 2017. The wholesale supply charge determined each
13		month will be added to this amount to yield the monthly G1 class Power Supply
14		Charge.
15		
16		Also shown on Schedule LSM-1, Page 3, is the proposed G1 RPS Charge of
17		0.00162 (or 0.162ϕ) per kWh in June through November 2017.
18		
19	Q.	Have you prepared a comparison of the proposed G1 DSC to the current
20		rate?
21	A.	No. As the total G1 class DSC is not yet known, a comparison to current rates
22		was not performed.

23

1	Q.	Please describe the calculation of the G1 class DSC.
2	A.	The rate calculations for the Power Supply Charges, exclusing wholesale supplier
3		charges, are provided on Schedule LSM-4, Page 1. The rate calculations for the
4		RPS Charges are provided on Schedule LSM-5, Page 1. Both charges are
5		calculated in the same manner.
6		
7		Each charge is calculated by dividing the costs for each month, including a partial
8		reconciliation of costs and revenues through February 28, 2017, by the estimated
9		G1 kWh purchases for the corresponding month. An estimated loss factor of
10		4.591% is then added to arrive at the proposed retail charges.
11		
12		Similar to the Non-G1 power supply and RPS balances, the G1 class power
13		supply and RPS reconciliation balances as of February 28, 2017 were adjusted in
14		order to determine the reconcilation amount for this filing. Adjustments were
15		made to reflect that the current DSC include reconciliation of the February 29,
16		2016 power supply and RPS balances, to incorporate the difference between the
17		estimated supplier cost and revenue in March 2017, and to adjust to account for
18		RPS. These adjustments are shown on Page 1 of Schedule LSM-4 and LSM-5.
19		
20	Q.	Have you provided details on the reconciliation?
21	A.	Support for the February 28, 2017 G1 class power supply reconciliation balance is
22		provided on Schedule LSM-4, Page 2. Support for the February 28, 2017 G1
23		class RPS reconciliation balance is provided on Schedule LSM-5, Page 2. As

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1		described above, those figures have been adjusted in order to arrive at the figures
2		for collection beginning June 1, 2017. Details for costs for the period March 2016
3		through February 2017 are provided on Page 3 of Schedule LSM-4 and LSM-5.
4		Page 4 of Schedule LSM-4 and LSM-5 provides revenue details.
5		
6	Q.	Have you provided support for the total forecast costs shown on Page 1,
7		line 2 of Schedule LSM-4?
8	A.	The details of forecasted costs included in the Power Supply Charge for the
9		period June through November 2017 are provided on Schedule LSM-4, Page
10		5. Line items for the various costs included in default service are shown and
11		include: Total G1 Class DS Supplier Charges, GIS Support Payments, Supply
12		Related Working Capital, Provision for Uncollected Accounts, Internal
13		Company Administrative Costs, Legal Charges, Consulting Outside Service
14		Charges, and the default service portion of the annual PUC Assessment
15		allocated to the G1 Class At the end of each month, UES will determine the
16		supplier charge to be added to the monthly Power Supply Charge.
17		
18	Q.	Have you provided support for the total forecast costs shown on Page 1,
19		line 2 of Schedule LSM-5?
20	A.	The details of forecasted costs included in the RPS Charge for the period June
21		through November 2017 are provided on Schedule LSM-5, Page 5. Costs
22		include Renewable Energy Credits ("RECs") and the associated Working
23		Capital.

1

2 Q. How is working capital calculated? 3 A. Working capital included in the Power Supply Charge equals the sum of 4 working capital for Total G1 Class DS Supplier Charges plus GIS Support 5 Payments and is shown on Schedule LSM-4, Pages 3 and 5. It is calculated 6 by taking the product of Total G1 Class DS Supplier Charges plus GIS 7 Support Payments and the number of days lag divided by 365 days (i.e. the 8 working capital requirement) and multiplying it by the prime rate. As the 9 Total G1 Class DS Supplier Charges for the upcoming rate period are not yet 10 known, UES has estimated power supply costs for the purpose of estimating 11 working capital. The estimate of power supply costs is based on the 12 forecasted G1 class kWh purchases and an estimated price per kWh. The 13 estimated price per kWh was determined by comparing a historical 14 relationship between G1 and Non-G1 class supplier pricing and then applying 15 that relationship to the current average Non-G1 supplier price per kWh. 16 Actual working capital will be determined using the actual supplier charges in 17 each month. 18 19 The calculation of working capital for RECs is included in the RPS Charge 20 and is shown on Schedule LSM-5, Pages 3 and 5. It is calculated by taking 21 the product of RECs and the number of days lead divided by 365 days (i.e. the 22 working capital requirement) and multiplying it by the prime rate.

23

1		The calculation of working capital included in the Power Supply Charge and
2		the RPS Charge, effective June 1, 2017, both rely on the results of the 2016
3		Default Service and Renewable Energy Credits Lead Lag Study. The G1
4		class Power Supply Charge working capital calculation uses 1.26 days and the
5		G1 class RPS Charge working capital calculation uses (302.01) days.
6		
7	IV.	BILL IMPACTS
8	Q.	Have you included any bill impacts associated with the proposed DSC rate
9		changes?
10	A.	Typical bill impacts isolating the impact of changes to the DSC have been
11		provided in Schedule LSM-6. These impacts do not include changes pending for
12		effect May 1, 2017 in DE 16-384. Total bill impacts to G1 customers are
13		unknown at this time and have therefore been excluded from Schedule LSM-6.
14		
15		Pages 1 and 2 provide a table comparing the existing rates to the proposed rates
16		for the residential and General Service rate classes. These pages also show the
17		impact on a typical bill for each class in order to identify the effect of each rate
18		component on a typical bill.
19		
20		Page 3 shows bill impacts to the residential class based on the mean and median
21		use. Page 3 is provided in a format similar to Pages 1 and 2.
22		

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1		Page 4 provides the overall average class bill impacts as a result of changes to the
2		DSC. As shown, for customers on Default Service, the residential class will
3		increase by approximately 1.2%, general service will increase by approximately
4		1.6%, and outdoor lighting will increase by approximately 0.8%.
5		
6		Pages 5 through 9 of Schedule LSM-6 provide typical bill impacts for all classes,
7		excluding G1, for a range of usage levels.
8		
9		Pages 10 and 11 provide a table comparing rates in effect in June 2016 to the
10		proposed rates for the residential and General Service rate classes. These pages
11		also show the impact on a typical bill for each class in order to identify the effect
12		of each rate component on a typical bill. Most Non-G1 customers taking fixed
13		default service will see increases of 7.9 to 15.8% compared to last summer,
14		mainly due to an increase in the DSC.
15		
16	V.	CONCLUSION
17	Q.	Does that conclude your testimony?
18	A.	Yes, it does.