NHPUC Docket No. DE 14-061 Testimony of Kristina M. Guay Exhibit KG-1

UNITIL ENERGY SYSTEMS, INC.

DIRECT TESTIMONY OF

KRISTINA M. GUAY

New Hampshire Public Utilities Commission Docket No. DE 14-061

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LIST OF SCHEDULES

Schedule KG-1: Unitil Energy Systems, Inc. 2013 Default Service and Renewable Energy Credits Lead Lag Study

Schedule KG-2: Confidential/Redacted Workpapers for the Unitil Energy Systems, Inc. 2013 Default Service and Renewable Energy Credits Lead Lag Study

1 I. INTRODUCTION

2	Q.	Please state your name and business address.
3	А.	My name is Kristina M. Guay. My business address is 6 Liberty Lane West,
4		Hampton, New Hampshire 03842.
5		
6	Q.	What is your position and what are your responsibilities?
7	А.	I am a Senior Financial Analyst for Unitil Service Corp., a subsidiary of Unitil
8		Corporation that provides managerial, financial, regulatory and engineering
9		services to Unitil Corporation's principal subsidiaries: Fitchburg Gas and
10		Electric Light Company, Granite State Gas Transmission, Inc., Northern
11		Utilities, Inc., and Unitil Energy Systems, Inc. ("UES" or the "Company"). In
12		this capacity I perform complex financial planning, forecasting and analysis
13		and generate high quality and analytical information and reports.
14		
15	Q.	Please describe your educational and professional background.
16	А.	I received a Bachelor of Science degree in Business with a concentration in
17		Accounting from Southern New Hampshire University in May of 2007. I
18		came to work for Unitil Service Corp. in August of 2004. I began working in
19		the Customer Accounting department as the Senior Financial Systems
20		Analyst. In this position I was responsible for coordinating the month end
21		revenue reconciliation for all Unitil subsidiaries. I also directed the Billing
22		Associates in the maintenance of the customer billing system, ensuring

1		accurate and timely bills were generated. In August of 2010, I was promoted
2		to Senior Financial Analyst as a member of the Finance Department. From
3		my prior role in Customer Accounting, I have direct experience with revenue
4		reconciliation and customer billing which are direct inputs into this lead lag
5		study. I also have several years of experience in financial planning,
6		forecasting and analysis from my approximate 10 years at Unitil in various
7		roles.
8		
9	Q.	Have you previously testified before the New Hampshire Public Utilities
10		Commission (the "Commission")?
11	А.	Yes, I have previously presented testimony before this Commission in Docket No.
12		DE 11-028, DE 12-003 and DE 13-079.
13		
14	II.	PURPOSE OF TESTIMONY
15	Q.	What is the purpose of your testimony?
16	А.	I will discuss the development of the 2013 UES Default Service and Renewable
17		Energy Credits Lead Lag Study ("2013 Study"), which is integral to the
18		calculation of cash working capital to be recovered in Default Service rates for G1
19		and Non-G1 customers.
20		
21	III.	SUMMARY OF TESTIMONY
22	Q.	Please summarize your testimony.

1	A.	My testimony presents and supports UES' 2013 Default Service ("DS") and
2		Renewable Energy Credits ("RECs") Lead Lag Study. The 2013 Study, presented
3		in this filing as Schedule KG-1, is based upon data for the period January 1, 2013
4		through December 31, 2013 and calculates the net lead period for G1 customers to
5		be 21.92 days and net lead period for Non-G1 customers to be 9.86 days.
6		
7	Q.	Are the results of the 2013 Study included in the DS rates proposed in this
8		filing?
9	A.	Yes, the 2013 Study results are used to derive supply-related working capital
10		costs included in DS rates beginning May 1, 2014, as described in the testimony
11		of UES witness Linda S. McNamara.
12		
13	IV.	LEAD LAG STUDY METHODOLOGY
14	Q.	How was the 2013 Study conducted?
15	A.	The 2013 Study follows similar methodology as in UES' 2012 Default Service
16		and Renewable Energy Credits Lead Lag Study ("2012 Study") that was
17		submitted in Docket No. DE 13-079. The 2013 Study determines the number of
18		days between the time funds are required to pay for DS purchased power and
19		REC purchases (expense lead) and the time that those funds are available from the
20		payment of customer bills (revenue lag). The revenue lag period includes four
21		calculations: "receipt of electric service to meter reading", "meter reading to

1		receipt of available funds". The expense lead period consists of the lead in
2		payment of DS purchased power costs and REC costs based upon the following
3		calculations: lead period, average days lead, weighted cost, days lead and
4		weighted days lead. Each of these steps is explained in more detail below. UES
5		based its 2013 Study upon data for the twelve months ended December 31, 2013,
6		and calculated net lead lag days separately for the G1 and Non-G1 customer
7		classes.
8		
9	Q.	Does the 2013 Study incorporate the requirements of the Lead Lag
10		Settlement Letter dated July 16, 2009, under docket DE 09-009?
11	A.	Yes, the 2013 Study conforms to the requirements specified in the Settlement
12		Letter under Docket No. DE 09-009. The 2013 Study follows the same
13		methodology as used in the 2009 - 2012 Studies which conform to the
14		requirements of the Settlement.
15		
16	V.	2013 STUDY RESULTS
17	Q.	Please define the terms "lag days" and "lead days."
18	A.	Lag days are the number of days between delivery of electric service by UES to
19		its customers and the receipt by the Company of available funds from customers'
20		payments (revenue lag). Lead days are the number of days between the mid-point
21		of the energy delivery period to UES and the payment date by UES to DS
22		suppliers or for RECs (expense lead).

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1

2 Q. How is revenue lag computed? 3 Revenue lag is computed in days, consisting of four time components: (1) days A. 4 from receipt of electric service to meter reading; (2) days from meter reading to 5 recording of accounts receivable; (3) days from billing to collection; and (4) days 6 from collection to receipt of available funds. The sum of the days associated with 7 these four lag components is the total revenue lag. The calculations are 8 performed separately for G1 and Non-G1 customer classes, as appropriate. Refer 9 to Schedule KG-1, pages 4 through 19 of 23. 10 11 Q. What is the lag period for the component "receipt of electric service to meter 12 reading" in the 2013 Study? 13 The 2013 average lag for "receipt of electric service to meter reading" is 15.21 A. 14 days. This lag was obtained by dividing the number of days in the test year (365 15 days) by 24 to determine the average monthly service period. This result is 16 applicable to both the G1 and Non-G1 customer classes. See Schedule KG-1, 17 page 5 of 23. 18 19 20 Q. What is the lag period for the component "meter reading to recording of 21 accounts receivable?"

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1	А.	The 2013 average "meter reading to recording of accounts receivable" lag is 1.09
2		days, which is applicable to both the G1 and the Non-G1 customer classes. This
3		lag determines the time required to process the meter reading data and record
4		accounts receivable. See Schedule KG-1, pages 6 through 10 of 23.
5		
6	Q.	What is the lag period for the component ''billing to collection?''
7	A.	The 2013 average "billing to collection" lag is 18.72 days for G1 customers and
8		32.38 days for Non-G1 customers. This component was calculated separately for
9		the G1 and Non-G1 customer groups and is derived by the accounts receivable
10		turnover method. The lag reflects the time delay between the mailing of customer
11		bills and the receipt of the billed revenues from customers. See Schedule KG-1,
12		pages 11 and 12 of 23 for G1 and Non-G1 results, respectively.
13		
14	Q.	What is the lag period for the component ''collection to receipt of available
15		funds?''
16	A.	The 2013 average "collection to receipt of available funds" lag is 1.29 days. This
17		represents the average weighted check-float period, or the lag that takes place
18		during the period from when payment is received from customers to the time such
19		funds are available for use by the Company. This result is applicable to both the
20		G1 and Non-G1 customer classes. See Schedule KG-1, pages 13 through 19 of
21		23.
22		

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1	Q.	Is the total revenue lag computed from these separate lag calculations?
2	A.	Yes. The total revenue lag of 36.31 days for G1 customers and 49.97 days for
3		Non-G1 customers is computed by adding the number of days associated with
4		each of the four revenue lag components described above. This total number of
5		lag days represents the amount of time between the recorded delivery of service to
6		customers and the receipt of the related revenues from customers. See Schedule
7		KG-1, page 4, line 6.
8		
9	Q.	Please turn to the lead periods in the 2013 Study. In determining the expense
10		lead period, how is the weighted days lead in payment of DS purchased
11		power costs determined?
12	A.	First, the monthly expense lead for each DS power supply vendor is determined
13		by aggregating (1) the average days in the period that the energy or service is
14		received and (2) the additional billing period including the payment day.
15		
16		The aggregate lead days are then weighted by the dollar amount of the billings.
17		Weighted days lead are calculated separately for G1 and Non-G1 customers, by
18		supplier, and are shown in the Confidential Workpapers to the 2013 Study,
19		Schedule KG-2.
20		

1		As of March 24, 2014, prior period adjustments made in 2014 related to 2013
2		were included in the calculation. Prior year adjustments made in 2013 that relate
3		to 2012 were not included in the calculation.
4		
5	Q.	How is the weighted days lead in payment for RECs determined?
6	A.	The weighted days lead in payment for RECs was determined using the same
7		methodology applicable to DS power suppliers described above. In applying this
8		methodology to 2013 RECs, three assumptions were made to reflect actual
9		payment activity towards the Company's 2013 REC commitment. First, the
10		monthly cost of the RECs was assumed to be equivalent to the estimated costs of
11		RECs included in rates in 2013. Second, actual payment activity as of March 24,
12		2014 towards the Company's 2013 REC commitment was applied in
13		chronological order to the earliest month's estimated cost. Third, a payment date
14		of July 1, 2014 was used for all remaining 2013 REC commitments, which is the
15		last day to obtain 2013 RECs and/or make alternative compliance payments. See
16		Schedule KG-1, page 21 of 23 for the REC summary related to G1 customers and
17		page 23 of 23 for the REC summary related to Non-G1 customers.
18		
19	Q.	What are the combined weighted days lead in payment of DS purchased

20 power costs and RECs for G1 and Non-G1 customers?

1	A.	The weighted days lead for G1 customers is 58.23 days, as shown on Schedule
2		KG-1, page 20 of 23. The weighted days lead for Non-G1 customers is 59.83
3		days, as shown on Schedule KG-1, page 22 of 23.
4		
5	Q.	How is the total DS and REC lead lag determined?
6	A.	For G1 customers, the DS and REC expense lead of 58.23 days is subtracted from
7		the lag in receipt of revenue of 36.31 days to produce the total DS and REC lead
8		of 21.92 days. For Non-G1 customers, the DS and REC expense lead of 59.83
9		days is subtracted from the lag in receipt of revenue of 49.97 days to produce the
10		total DS and REC lead of 9.86 days. See Schedule KG-1, page 4 of 23.
11		
12	Q.	How do the results of the 2013 Study compare to the 2012 Study for G1
13		customers?
14	A.	For G1 customers, the net lead in the 2013 Study of 21.92 days represents a
15		difference of 1.81 days from the net lead in the 2012 Study of 20.11 days. The
16		difference was driven by a decrease in DS and REC expense lead of 1.04 days and
17		by an overall revenue lag decrease of 2.85 days.
18		
19		The revenue lag component, "billing to collection" in the 2013 Study is 18.72
20		days compared to 21.51 days in the 2012 Study, a decrease of 2.79 days. All of
21		the other components in revenue lag decreased a total of 0.06 days in the 2013

1		Study compared to the 2012 Study. The combined change in all of the revenue
2		lag components resulted in an overall revenue lag decrease of 2.85 days.
3		
4		The DS and REC expense lead is 58.23 days in the 2013 Study compared to 59.27
5		days in the 2012 Study, a decrease of 1.04 days. The overall net decrease in the
6		REC portion of the expense lead is attributable to a decrease in the REC portion
7		of the total DS and REC costs. The REC portion of total costs in 2012 was 6.91%
8		and reduced to 5.15% in 2013. The overall net increase in the DS portion of the
9		expense lead is largely attributable to a 32% increase in DS costs resulting in a
10		percentage increase of total costs from 93.09% in 2012 to 94.85% in 2013.
11		
12	Q.	How do the results of the 2013 Study compare to the 2012 Study for Non-G1
12 13	Q.	How do the results of the 2013 Study compare to the 2012 Study for Non-G1 customers?
	Q. A.	
13		customers?
13 14		customers? For Non-G1 customers, the net lead in the 2013 Study of 9.86 days is 11.21 days
13 14 15		customers? For Non-G1 customers, the net lead in the 2013 Study of 9.86 days is 11.21 days more than the net lag in the 2012 Study of 1.35 days. The increase in net lead is
13 14 15 16		customers? For Non-G1 customers, the net lead in the 2013 Study of 9.86 days is 11.21 days more than the net lag in the 2012 Study of 1.35 days. The increase in net lead is attributable to a 0.78 day decrease in revenue lag and a 10.43 day increase in the
13 14 15 16 17		customers? For Non-G1 customers, the net lead in the 2013 Study of 9.86 days is 11.21 days more than the net lag in the 2012 Study of 1.35 days. The increase in net lead is attributable to a 0.78 day decrease in revenue lag and a 10.43 day increase in the
13 14 15 16 17 18		customers? For Non-G1 customers, the net lead in the 2013 Study of 9.86 days is 11.21 days more than the net lag in the 2012 Study of 1.35 days. The increase in net lead is attributable to a 0.78 day decrease in revenue lag and a 10.43 day increase in the DS and REC expense lead.
 13 14 15 16 17 18 19 		customers? For Non-G1 customers, the net lead in the 2013 Study of 9.86 days is 11.21 days more than the net lag in the 2012 Study of 1.35 days. The increase in net lead is attributable to a 0.78 day decrease in revenue lag and a 10.43 day increase in the DS and REC expense lead. The revenue lag component, "meter reading to recording of accounts receivable"

1		compared to the 2012 Study. The net effect of all of the changes in the revenue
2		lag components resulted in a .78 decrease in the 2013 revenue lag compared to
3		2012.
4		
5		The DS and REC expense lead is 10.43 days higher in 2013 compared to 2012. In
6		2013, the DS portion of the expense lead increased from 32.88 weighted days in
7		2012 to 40.22 days in 2013. The REC portion of the expense lead increased from
8		16.52 weighted days lead in 2012 to 19.61 weighted days lead in 2013. This
9		increase was largely driven by increases in the average days lead for DS and REC
10		of 7.75 days and 58.12 days, respectively, while total DS and REC total costs
11		increased less than 1%.
12		
13	VI.	CONCLUSION
14	Q.	Does this conclude your testimony?
15	A.	Yes, it does.