UNITIL ENERGY SYSTEMS, INC.

AMENDED JOINT TESTIMONY OF: KAREN M. ASBURY JUSTIN C. EISFELLER ROBERT S. FURINO

New Hampshire Public Utilities Commission

Docket No.: DE 11-105

September 30, 2011

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1	I.	INTRODUCTION OF PANEL
2	Q.	Please state your name and business address.
3	A.	My name is Karen M. Asbury. My business address is 6 Liberty Lane West,
4		Hampton, New Hampshire 03842.
5		
6	Q.	By whom are you employed and in what capacity?
7	А.	I am Director of Regulatory Services for Unitil Service Corp. ("USC"), which
8		provides centralized management and administrative services to all Unitil
9		affiliates, including Unitil Energy Systems, Inc. ("UES").
10		
11	Q.	Please describe your business and educational background.
12	А.	In 1987, I graduated magna cum laude from the University of New Hampshire
13		with a Bachelor of Science Degree in Mathematics. I joined USC in January
14		1988 and have held various positions in the regulatory/rate department. I have
15		been involved in regulatory compliance and rate analysis for electric and gas
16		utilities for over twenty years. In my current position, I am responsible for
17		directing regulatory filings, pricing research, analysis, and design, tariff
18		administration, revenue requirements and cost of service calculations,
19		customer research, and other analytical services.
20	, ,	
21	Q.	Have you previously testified before the New Hampshire Public Utilities
22		Commission ("Commission")?

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1	А.	Yes. I have testified on numerous occasions before the Commission. I have
2		also testified before the Massachusetts Department of Public Utilities and
3		participated in the preparation of filings for the Federal Energy Regulatory
4		Commission ("FERC").
5		
6	Q.	Please state your name and business affiliation.
7	A.	My name is Justin C. Eisfeller and I am the Director of Energy Measurement
8		and Control at USC. As Director of Energy Measurement and Control
9		("EM&C") I am responsible for daily operations of the metering, substation,
10		and gas and electric dispatching areas. These responsibilities have involved
11		shaping the company's direction in areas of advanced metering applications
12		and regulatory actions due to EPACT and distributed generation. My business
13		address is 325 West Road, in Portsmouth, NH.
14		
15	Q.	Please summarize your qualifications and current position with USC.
16	А.	I received my Bachelor of Science Degree in Electrical Engineering (Power
17		Option) from Northeastern University in 1990 and my Master of Business
18		Administration from UNH in 2005. I have also been a Registered
19		Professional Engineer in the State of New Hampshire (License No. 9066)
20		since 1996. I joined USC in 2002 as Manager of Distribution Engineering
21		with responsibility for distribution system design and support. In 2004, I
22		assumed the responsibilities of Director of Engineering with responsibilities

1		for distribution engineering, planning, transmission and substation
2		engineering, system protection and control, computer aided design, and
3		geographic information systems. In 2008 I assumed responsibilities for my
4		current position. The functions of the Director, EM&C include responsibility
5		for the installation, operation, and maintenance of equipment necessary to
6		provide for metering, dispatching and substation systems as well as equipment
7		and systems necessary for the implementation of new energy technology, the
8		digitization and automation of the electric system, equipment
9		communications, system performance data gathering, demand response, and
10		the enabling of other displacement energy technologies.
11		
12	Q.	Have you previously testified before the Commission?
13	A.	Yes. I have testified on several occasions before the Commission. I have also
14		testified before the Massachusetts Department of Public Utilities.
15		
16	Q.	Please state your name and business address.
17	A.	My name is Robert S. Furino. My business address is 6 Liberty Lane West,
18		Hampton, NH.
19		
20 -	Q.	By whom are you employed and in what capacity?
21	A.	I am employed by USC as Director of the Energy Contracts department.
22		
23	Q.	Please briefly describe your educational and business experience.

1	A.	I received my Bachelor of Arts Degree in Economics from the University of
2		Maine in 1991. I joined USC in March 1994 as an Associate DSM Analyst in
3		the Regulatory Services Department and have worked in the Regulatory,
4		Product Development, Finance and Energy Contracts Departments. Currently,
5		my primary responsibilities involve energy supply planning and acquisition,
6		including the procurement of electric Default Service for UES and its affiliate
7		Fitchburg Gas and Electric Light Company (Fitchburg), and natural gas
8		supply for both Fitchburg and for Northern Utilities, Inc.
9		
10	Q.	Have you previously testified before the Commission?
11	A.	Yes. I have testified before the Commission on many occasions.
12		
12 13	II.	PURPOSE OF TESTIMONY
12 13 14	II. Q.	PURPOSE OF TESTIMONY Please describe the purpose of this joint testimony in this proceeding?
12 13 14 15	II. Q. А.	PURPOSE OF TESTIMONY Please describe the purpose of this joint testimony in this proceeding? The purpose of this testimony is to: present and explain the nature of a large
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12 13 14 15 16 17 18 19 20	П. Q. А.	PURPOSE OF TESTIMONYPlease describe the purpose of this joint testimony in this proceeding?The purpose of this testimony is to: present and explain the nature of a largeoverbilling error that occurred with respect to a customer of UES, theRiverwoods at Exeter ("Riverwoods"); to describe UES's calculation of therefund provided to the customer; and to describe and support the request forapproval to adjust the account balances in the External Delivery Charge("EDC"), the Stranded Cost Charge ("SCC"), the System Benefits Charge
12 13 14 15 16 17 18 19 20 21	II. Q. А.	PURPOSE OF TESTIMONY Please describe the purpose of this joint testimony in this proceeding? The purpose of this testimony is to: present and explain the nature of a large overbilling error that occurred with respect to a customer of UES, the Riverwoods at Exeter ("Riverwoods"); to describe UES's calculation of the refund provided to the customer; and to describe and support the request for approval to adjust the account balances in the External Delivery Charge ("EDC"), the Stranded Cost Charge ("SCC"), the System Benefits Charge ("SBC") and the Non-G1 Default Service Charge. Adjusting these account

1		balances would allow UES to recover from its customers the amount by which
2		they benefited as the result of the above-referenced overbilling.
3		
4	III.	BACKGROUND
5	Q.	Please describe the nature of the billing error and how it was discovered.
6	А.	During November and December 2010, USC's Business Development
7		department had been working with the customer to identify ways of reducing
8		the energy consumption at the customer's three facilities. One facility in
9		particular had a higher consumption than the other two facilities. Through the
10		monitoring of the sub-panels at the facility, the Company was able to identify
11		a potential of a billing inaccuracy at this location.
12		· · ·
13		Several visits to the customer site were made to first verify the meter was
14		working correctly, then several sets of measurements were taken of the
15		metering transformers to verify their function. On Monday, February 7, 2011
16		metering personnel confirmed that the meter and current transformers ("CT")
17		were found to be working correctly. However, the metering personnel
18		discovered that the CTs were mislabeled. As the result of the mislabeled CTs,
19		billing was double the actual usage.
20		

21 Q. How long had this customer been inaccurately billed?

1	А.	Billing has been incorrect for this location since September 10, 2004, the date
2		of the initial installation of the mislabeled CTs and the initiation of the
3		customer's account for this location. The meter constant was programmed at
4		the time the meter was set in accordance with the (mis)labeling on the
5		installed CTs. Since the labeling was incorrect, billing has been incorrect
6		since the initial installation.
7		
8	Q.	What are CTs and why are they needed for this installation?
9	А.	In order to meter large customer loads, utilities must install instruments that
10		transform the large currents into quantities measurable by the meters. This
11		device is called a current transformer or CT. One CT is installed for each
12		phase of the electric service. These devices are installed around the service
13		wires and have output leads that are connected to the meter. The output of the
14		CTs are a ratio of the actual load. The meter uses this reduced current output
15		to measure energy usage. In order to determine billable usage, the metered
16		values are multiplied by this ratio (or meter constant) to calculate the actual
17		energy consumption.
18		
19	Q.	Please explain how the installation of a CT can lead to a billing error?
20	A.	If the meter constant is incorrect, the billing system will calculate usage that is
21		different from actual consumption.

22

1		At this particular customer site, UES installed dual ratio CTs, which provided
2		for either a 3000:5 ratio or a 1500:5 ratio. The ratio is selected by changing
3		the connections for the output wiring based on which of two labeled taps are
4		chosen. The output wiring at this site was connected to the tap labeled
5		"3000:5" resulting in a meter constant of 600. Since the CT was mislabeled it
6		was actually transforming at a ratio of 1500:5 or a meter constant of 300.
7		Because the metered values were multiplied by the incorrect constant, the
8		customer's bill was based on double the amount of the customer's actual
9		usage.
10		
11	Q.	Does UES test meters upon installation or periodically to ensure accurate
12		readings?
12 13	A.	readings? UES regularly tests its meters in accordance with the requirements of the Puc
12 13 14	A.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities,
12 13 14 15	А.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and
12 13 14 15 16	А.	<pre>readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and found to be accurate on a number of occasions during the period in question.</pre>
12 13 14 15 16 17	A.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and found to be accurate on a number of occasions during the period in question.
12 13 14 15 16 17 18	А.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and found to be accurate on a number of occasions during the period in question. UES performs connection verification tests of installations as required by Puc
12 13 14 15 16 17 18 19	А.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and found to be accurate on a number of occasions during the period in question. UES performs connection verification tests of installations as required by Puc Rule 305.01(g). UES relies on the manufacturer's specifications and test
12 13 14 15 16 17 18 19 20	A.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and found to be accurate on a number of occasions during the period in question. UES performs connection verification tests of installations as required by Puc Rule 305.01(g). UES relies on the manufacturer's specifications and test results of the CT ratio. All polyphase transformer meters are tested every four
12 13 14 15 16 17 18 19 20 21	А.	readings? UES regularly tests its meters in accordance with the requirements of the Puc 300 rules. All meters are either tested at the factory or in UES's facilities, consistent with Puc Rule 305. The meter at this location had been tested and found to be accurate on a number of occasions during the period in question. UES performs connection verification tests of installations as required by Puc Rule 305.01(g). UES relies on the manufacturer's specifications and test results of the CT ratio. All polyphase transformer meters are tested every four years following the initial installation, which complies with Puc Rule

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2		Periodic inspections and testing of instrumented sites include an inspection of
3		the CT, but does not require actual ratio measurement, as these devices are
4		static, contain no moving parts, and are basically a coil of wire with a specific
5		set of unchanging characteristics. Additionally, these devices may be difficult
6		to physically access, require special equipment or line crew assistance to
7		measure, and field measurements can sometimes be misleading (verifying
8		with instantaneous checks can provide erroneous results during rapid load
9		changes).
10		
11	Q.	When were the CT and the meter initially installed at this location?
12	А.	The CT and meter were initially installed on September 10, 2004. As
13		required, the meter was tested prior to installation. UES relied on the CT
14		manufacturer's test of accuracy and performed the installation according to
15		the labeling on the CT.
16		
17	Q.	Was the meter ever changed at this location during the period in
18		question?
19	A.	Yes. The meter was changed on January 4, 2007, as part of the company's
20		deployment of its Automated Metering Infrastructure ("AMI") project. This
21		change occurred one year prior to the scheduled four year cycle for testing and
22		verification. Subsequently, on March 11, 2008, the meter was changed again,

1

1		in response to the customers request to install KYZ pulse output metering. On
2		both of these occasions the new meter was tested prior to installation, but the
3		setting of the CT, which had been based upon the manufacturer's
4		specifications, was not changed.
5		
6	Q.	Were subsequent meter tests performed?
7	А.	Yes. In early November 2010, the customer contacted the Company,
8		concerned that usage at this one location was running twice as high as at its
9		two other locations, and requested that UES test the meter. The meter was
10		tested and its accuracy verified. In January 2011, the Company's meter
11		department checked the pulse weight and pulse multiplier calculations. The
12		meter department also inspected the meter and CT configuration and
13		confirmed that the CT wiring was in fact on the 3000:5 terminals. Finally, in
14		early February 2011, the results of a subpanel metering report, which was
15		undertaken as part of an energy audit, indicated that this location was
16		consuming only half of what the meter was reporting. It was at this point that
17		it was determined that the CTs were marked incorrectly. Special equipment
18		was brought in to the site, and the CT ratios were measured and confirmed to
19		be 1500:5, not 3000:5.
20		

21 Q. Once the mislabeling of the CT was discovered, what steps were taken?

1	А.	On February 8, 2011 UES changed the billing multiplier in the billing system
2		for this meter from 600 to 300. UES also performed a full meter test,
3		including tests of all CTs at the customer's other facilities to ensure that no
4		other issues existed.
5		
6	Q.	What steps is UES taking to prevent a future occurrence of this error at
7		other similarly instrumented sites?
8	А.	UES has completed a full review of all dual ratio CT installations at its larger
9		accounts. No locations were found with dual ratio CT's of the type used at
10		Riverwoods, nor did we find any issues with mislabeling. In addition, visual
11		inspection and testing of all instrumented installations (any installations with
12		CT's or "potential transformers (PT's), whether or not they are larger
13		installations that "could be" dual ratio), was undertaken by the Company. To
14		date, this review is about half-way through the entire population of 910
15		instrumented locations. As mentioned previously, the procedures for initial
16		installation and periodic testing have been revised to include testing beyond
17		the manufacture's test results as relied on previously.
18		
19	IV.	CALCULATION OF OVERPAYMENT, REFUND AMOUNT AND
20		PROPOSED ACCOUNT ADJUSTMENTS
21	Q.	Please describe how the overpayment was calculated.

.

1	А.	UES has prepared a detailed spreadsheet with the customer's billing history
2		from September 2004 through January 2011, the time period over which the
3		billing error occurred. The customer was on Default Service for the period
4		September 2004 through July 2006. Thereafter, the customer was served by a
5		third-party supplier, so UES obtained the customer's energy billings from
6		their third-party supplier for the period August 2006 through January 2011.
7		All of this information is included in the calculations that appear in the
8		spreadsheet which is provided as Schedule UES-1. The monthly billing detail
9		is shown in columns 1 through 12.
10		
11	Q.	What is total amount over-collected from the customer?
12	А.	As shown in column 8, page 2 of 2 of Schedule UES-1, the customer paid
13		total charges of \$3,613,338 over the period September 2004 through January
14		2011. The total over-collected amount, which is half of all charges, excluding
15		customer charges, is \$1,801,504. As shown in columns 13, 14, and 15, the
16		breakdown of the over-collection is as follows:
17 18 19		Distribution Charge:\$185,663Other Delivery Charges:\$299,751Supply Charges:\$1,316,090
20		
21	Q.	Please provide more detail concerning the over-collected amount for
22		Other Delivery Charges.

2		follows:	
3 4 5 6		Restructuring Surcharge: Rate Case Surcharge: System Benefits Charge - Energy Efficiency ("SBC EE"): System Benefits Charge -	\$592 \$4,696 \$23,253
7 8 9		Low Income-Electric Assistance Program ("SBC LI"): Stranded Cost Charge: Fuel Purchased Power Adjustment Charge ("FPPAC")	\$18,001 \$103,558
10 11 12 13 14		Underrecovery: External Delivery Charge: Subtotal Delivery Charges: Consumption Tax: Total including Consumption Tax:	\$4,380 <u>\$137,970</u> \$292,450 <u>\$7,301</u> \$299,751 ¹
15			<i>(<i>L</i>), <i>i</i>, <i>i</i>, <i>i</i>, <i>i</i>, <i>i</i>, <i>i</i>, <i>i</i>, <i>i</i></i>
16	Q.	Has UES provided a refund to the customer?	
17	A.	UES initially provided a refund of \$611,699 to the customer co	ncurrent with
18		the filing of its initial Petition in this docket on May 13, 2011.	Subsequently,
19		on August 30, 2011, upon reaching a settlement agreement with	n Riverwoods,
20		UES provided an additional refund of \$1,459,721, for a total re-	fund of
21		\$2,071,420 (\$1,801,504 plus interest charges of \$269,916). Th	e amount
22		refunded includes \$213,480 (\$185,663 plus interest of \$27,817)) of distribution
23		charge over-collection, \$1,513,277 (\$1,316,090 plus interest of	\$197,187) of
24		supply charges, and \$344,662 (\$299,751 plus interest of \$44,91	1) of other
25		delivery charges.	

The amount related to Other Delivery Charges is further broken down as

А.

¹ Page 3 of Schedule UES-1 provides the monthly detail for this amount.

1	Q.	Please explain why the Company is requesting authorization to adjust its
2		account balances for the period of time for which reparations are made to
3		the customer.
4	A.	Due to the reconciling nature of the delivery costs, all customers benefitted
5		from this customer's overpayment, since the overpayment was reflected in the
6		delivery charge account balances, thus lowering the amounts due from all
7		customers. In the case of the SBC, which is a fixed rate, the overpayment
8		increased the amount of funds available for EE and LI programs. In the case
9		of the supply related overpayment, as explained below, UES's Non-G1
10		customers benefitted as they received power that they didn't pay for.
11		Accordingly, UES seeks recovery of the delivery charge refund and the
12		portion of the supply charge refund above through the normal operation of its
13		reconciling clauses. ²
14		
15	Q.	Please more fully describe UES's request to adjust its delivery charge
16		reconciling mechanisms to recognize the refund.
17	A.	UES seeks to make an accounting entry that removes the overpayment from
18		revenue in the External Delivery Charge ("EDC") and Stranded Cost Charge
19		("SCC"). The end result would be decreases to EDC revenue of \$158,642
20		(\$137,970 plus interest of \$20,672) and SCC revenue of \$119,073 (\$103,558

² The consumption tax amount remitted to the State of New Hampshire would be lowered when the refund is made.

1		plus interest of \$15,516). UES also proposes to decrease SBC EE revenue of
2		\$26,737 (\$23,253 plus interest of \$3,484) and SBC LI revenue of \$18,001,
3		reflecting the refund of the SBC amounts. Finally, UES proposes to decrease
4		EDC revenue by: \$681 (\$592 plus interest of \$89) for the Restructuring
5		Surcharge; \$4,696 for the Rate Case Surcharge; and \$5,036 (\$4,380 plus
6		interest of \$656) for the FPPAC Underrecovery. ³
7		
8	Q.	When would UES's EDC and SCC rates include these adjustments?
9	А.	If approved, the adjustments to the EDC and SCC would be reflected in
10		UES's next annual EDC/SCC rate filing scheduled for June 2012 for rates
11		effective August 1, 2012. The net impact of the adjustments to the EDC and
12		SCC would be approximately \$0.00024 per kWh or \$0.14 for a residential
13		customer using 600 kWh per month.
14		
15	Q.	Please describe the impact of the proposal on the SBC EE and SBC LI
16		accounts.
17	A.	As the SBC is a fixed rate, the proposed SBC EE and SBC LI adjustments will
18		have no rate impact on customers, but rather will affect the account balances
19		for these programs. In the case of SBC LI, the adjustment would lower the

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³ As the Restructuring Surcharge, Rate Case Surcharge and FPPAC Underrecovery surcharge no longer exist, UES proposes to adjust the EDC for these amounts.

1		amount to be remitted to the State of New Hampshire in the month that the
2		adjustment was made. ⁴
3		
4	Q.	Please describe UES's proposal with respect to supply charges.
5	А.	With respect to the supply charge overcharges, UES seeks to make an
6		accounting entry in the amount of \$1,325,169 (\$1,152,493 plus interest of
7		\$172,676) that increases costs in the Non-G1 Default Service Charge. This
8		amount is less than the full supply charge refund amount, reflecting what the
9		Non-G1 Default Service supply charges would have been if the error had not
10		occurred. This calculation was performed by pricing out the overbilled kWh
11		sales by the Non-G1 Default Service rates in effect at the time. This
12		calculation results in lower supply charges to the Non-G1 class.
13		
14	Q.	Why is UES proposing to charge the Non-G1 Default Service Charge by
15		an amount less than it is proposing to refund to the customer for the
16		supply charge portion of the over-collection?
17	А.	The reason for adjusting Non-G1 Default Service for the supply charge refund
18		as described above is because the error shifted costs from Non-G1 Default
19		Service to the customer. UES utilizes a load allocation process in order to
20		assign load obligations associated with customer consumption to the

⁴ UES's SBC LI revenues are generally higher than LI-EAP costs, resulting in a monthly remittance to the State of New Hampshire.

1	numerous suppliers on its system. These load obligations are reported to ISO
2	New England for the proper assessment of wholesale cost. As part of the load
3	allocation process, UES must either use actual meter readings or estimate
4	usage for all customers on an hourly basis. For load allocation purposes, there
5	are two types of customers: those with interval meters, which provide hourly
6	reads, and those with standard meters, which provide monthly reads. Under
7	UES's tariff, G1 customers such as this customer receive interval metering
8	and Non-G1 customers receive monthly metering.
9	
10	For each hour, UES must match the sum of all customer loads, adjusted for
11	distribution losses, to the tie point total which measures power flowing into
12	the system, including adjustments for power generated within the system. The
13	loads of G1 customers are known since they are metered on an hourly basis,
14	providing "interval data." The loads of Non-G1 customers are estimated
15	initially based upon customer class load profiles and usage factors. For each
16	hour, the sum of the interval data for G1 customers and the estimated data for
17	Non-G1 customers is netted from the tie point data. The difference, referred
18	to as residual load, is then allocated on a pro-rata basis to all Non-G1
19	customers.
20	
21	The customer's interval meter data was overstated during the period of the
22	meter error, and due to the application of residual load to Non-G1 customers,

1		the Non-G1 customer loads were correspondingly understated. Had the meter
2		error not occurred, the Non-G1 loads reported to ISO-NE would have been
3		higher than reported and the Non-G1 customers would have paid additional
4		supply cost.
5		
6		The difference in actual supply costs paid by the customer and what would
7		have been paid by Non-G1 Default Service relates to differences in retail
8		rates. For the two-year period for which the refund is calculated, while being
9		served by third party supplier, the customer over-paid \$1,316,090 in supply
10		costs. By comparison, Non-G1 supply costs during this period would have
11		been \$1,152,493. UES has decided that it will absorb the refund of the
12		difference, \$163,597 (plus interest of \$24,511, for a total of \$188,108), to the
13		customer, though it did not profit from the over-collection of this amount.
14		
15	Q.	When would UES's Non-G1 Default Service rates include this
16		adjustment?
17	A.	UES proposes to include this adjustment in its next annual reconciliation
18		filing for non-G1 Default Service, scheduled for March 2012 for rates
19		effective May 1, 2012. UES proposes to include the adjustment in rates for a
20		twelve month period. The impact to the Non-G1 Default Service rate would
21		be approximately \$0.00166 per kWh or \$0.99 for a residential customer using
22		600 kWh per month. Combined with the impact to the EDC and SCC, a

1		residential customer using 600 kWh per month would see a bill impact of
2		\$1.14 or 1.36 percent.
3		
4	Q.	Have you provided a schedule showing a summary of these calculations
5		and the estimated rate impact?
6	А.	Yes. Schedule UES-2 provides a summary of the figures and rate impact
7		calculations discussed above. Table A summarizes the amounts billed to the
8		customer and refund amount by component for the total period. Table B
9		shows the impact to the reconciling mechanisms and associated rate and bill
10		impact to a residential customer using 600 kWh per month. As discussed
11		above, the customer impacts exclude a portion of the supply charge refund.
12		Table C shows the UES impact, which includes the refund of distribution
13		charges as well as the difference for supply costs. Table D provides a further
14		breakdown of these impacts as a percentage of UES's annual revenue by rate
15		component.
16		
17	v.	CONCLUSION

- 18 Q. Does that conclude your testimony?
- 19 A. Yes, it does.