ORIGINALTHE STATE OF NEW HAMPSHIRE

N.H.P.U.C. Case Ho DE 09-035

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

Docket No. DE 09-035

DIRECT TESTIMONY OF

Stephen R. Hall

Request for Permanent Delivery Rates

June 30, 2009

I. INTRODUCTION

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- 2 Q. Please state your name, position and business address.
- 3 A. My name is Stephen R. Hall. I am Rate and Regulatory Services Manager for Public
- 4 Service Company of New Hampshire ("PSNH"). My business address is PSNH Energy
- 5 Park, 780 North Commercial Street, Manchester, New Hampshire.
- 6 Q. Have you previously testified before the Commission?
- 7 A. Yes, I have testified on numerous occasions before the Commission over the past twenty-
- 8 nine years. A listing of my educational background and experience is contained in
- 9 Attachment SRH-1.
- 10 Q. Did you previously submit pre-filed testimony in this docket concerning PSNH's
- request for temporary rates?
- 12 A. Yes, I did. In this testimony, I will be incorporating my previous testimony by reference
- to the extent necessary.
- 14 Q. What is the purpose of your testimony?
- 15 A. The purpose of my testimony is to present PSNH's tariff pages containing permanent
- rates designed to recover the revenue requirements described in Mr. Baumann's
- 17 testimony. I will list PSNH's revenue pro forma adjustments that I previously discussed
- in my temporary rates testimony. I will describe the allocation of revenue requirements
- to customer class and the resulting rate design that PSNH used to calculate permanent
- 20 rates. I will describe PSNH's tariff and the changes that PSNH is proposing to some of
- the tariff language, terms and conditions, including a description of a new type of street
- 22 lighting service that PSNH is proposing.

1 II. REVENUE AND EXPENSE PRO FORMA ADJUSTMENTS

2 Q. Please describe PSNH's revenue pro forma adjustments.

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- 3 A. PSNH's revenue pro forma adjustments are contained in Schedule 1 Attachment to Mr.
- Baumann's testimony. These adjustments decrease PSNH's test year distribution
- revenue by \$ 287,000. PSNH revised the revenue pro forma adjustments from the
- temporary rate filing to take into account a minor rounding difference of \$5,000 in the
- adjustment which stated distribution revenue at the rate level effective July 1, 2008. This
- 8 pro forma, a decrease of \$199,000 in the temporary rate filing, has been revised slightly
- to a decrease of \$194,000. The other revenue pro forma adjustment, a decrease of
- \$93,000 due to the expiration of special pricing arrangements, is unchanged from the
- amount described in my testimony on temporary rates.

12 III. PROPOSED TARIFF PAGES AND REVENUE ALLOCATION

- 13 Q. Please describe generally the rates and charges contained in Attachment SRH-2.
- 14 A. Attachment SRH-2 is PSNH's proposed Electricity Delivery Service Tariff NHPUC
- No. 7, which contains the rates and charges necessary to recover PSNH's cost of
- providing delivery service to customers. The tariff contains the currently-effective
- 17 Energy Service rate, Stranded Cost Recovery Charge rates and Transmission Cost
- Adjustment Mechanism rates. All of those rates are subject to change on August 1, 2009
- as a result of PSNH's filings in Dockets DE 08-113, DE 08-114, and DE 09-114,
- 20 respectively. Once the final rates in each of those dockets have been determined, the
- 21 tariff will be updated to incorporate the rates ultimately approved.
- We've also included a "blacklined" version of the tariff in Attachment SRH-3 as well as
- a summary of the tariff changes in Attachment SRH-4.

1	Q.	What is PSNH's proposed overall distribution revenue target?			
2	A.	PSNH's proposed overall distribution revenue target is \$295,039,000, which is the total			
3		of the current retail billed distribution revenue, as pro formed, of \$243,931,000 plus the			
4		revenue deficiency of \$51,108,000 discussed in Mr. Baumann's testimony.			
5	Q.	Please reconcile the difference between the \$243,931,000 pro formed retail billed			
6		revenue and the pro formed distribution operating revenue shown in Mr.			
7		Baumann's schedules.			
8	A.	Mr. Baumann's Schedule 1, Page 1 shows total pro forma distribution operating revenue			
9		of \$259,824,000, which includes not only billed distribution revenue, but an additional			
10		\$15,893,000 of unbilled revenue, wholesale revenue and other operating revenues (late			
11		payment charges, miscellaneous service revenue, transformer rental revenue, and other			
12		electric revenue).			
13	Q.	Please describe how you allocated revenue to each class for the purpose of			
14		calculating PSNH's proposed distribution rates.			
15	A.	Revenue was allocated to each class in the same manner as the revenue allocation for			
16		PSNH's proposed temporary rates. Specifically, revenue was allocated to classes by			
17		increasing each class's current revenue component by the same percentage amount, as			
18		shown on Attachment SRH-5.			
19		Attachment SRH-6 is PSNH's "Report of Proposed Rate Changes". This report shows			
20		the proposed distribution rate changes on a class-by-class basis, compared to the rate			
21		level currently in effect. The report shows an overall increase of \$51.1 million or 4.2%			

attributable exclusively to the proposed permanent distribution charges. Since the SCRC,

Energy Service and TCAM rates for effect on August 1, 2009 are not yet certain, all of the revenue amounts in this report (in both the current and proposed columns) are premised upon the currently-effective SCRC, Energy Service and TCAM charges.

4 IV. RATE DESIGN

5 Q. Is PSNH proposing any changes to rate design?

A. Yes, we are. PSNH is proposing modest increases to its customer charges and demand charges, and correspondingly reducing its energy (kilowatt-hour) charges in order to more closely match the cost of providing service. We are not proposing any reallocation of revenue responsibility between classes.

Q. Did you rely on PSNH's cost of service study to design your rates?

Yes, to a certain extent. The cost of service study is included in Volume III and is described in the technical statement of Charles R. Goodwin. The cost of service study shows that the customer-related costs attributable to providing service to several customer classes and subclasses (Residential, General Service Rate G, Load Controlled Service and Large General Service Rate LG) are significantly higher than what the level of the customer charge would be absent any changes to rate design. It also shows that demand charges for general service classes are relatively close to the cost of service. A summary of the unitized costs is shown on Attachment SRH-7.

In this proceeding, we are not proposing a rigorous re-design of PSNH's rates. Rather, we are proposing minor changes to customer and demand charges to more closely align those charges with the cost of providing service as determined in the cost of service study.

1	Q.	Will your proposed changes completely align PSNH's customer and demand
2		charges with the costs shown in the cost study?

No, they will not. We are seeking to make a very gradual change to our rate design to 3 A. avoid a significant bill impact on individual customers. We will continue to examine rate 4 design during the next few rate cases and will assess whether additional changes to rate 5 design should be made during those future cases. By making modest, gradual changes to 6 rate design, we are hoping to more closely align our rates to costs over time without 7 significantly impacting any particular customer's bill amount. Moreover, the embedded 8 cost of service study provides only one measurement of the individual rate components. 9 In order to perform a rigorous rate re-design, one might want to consider other 10 measurements as well, such as a marginal cost of service study. 11

Other than more closely aligning your rates with cost of service, are there other benefits to your proposed rate re-design?

Yes. Higher customer and demand changes and lower energy charges will provide PSNH with a modicum of additional revenue to the extent that customers engage in significant conservation efforts. This positive effect is a small step toward addressing the problem of attrition discussed in Mr. Long's testimony. To the extent that PSNH's kilowatt-hour sales continue to decrease, the rate design that we are proposing will slightly offset the revenue loss that would otherwise occur if all rates and charges were increased by the same proportion. Conversely, to the extent that kilowatt-hour sales increase, PSNH would not realize as much of an increase in revenue under the proposed rate design.

Q. Please continue with your description of your rate design.

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A. The first step in designing rates was to allocate revenue to each class of service.

Attachment SRH-5 shows the calculation of proposed distribution revenue by rate class.

Once each class's revenue level was determined, we set customer and demand charges at specific levels, calculated the amount of revenue that will be received through those charges, and subtracted the result from the total class revenue requirement. The remaining class revenue requirement was then achieved by adjusting all class

kilowatt-hour charges by an equal percentage.

The results of PSNH's rate design changes are shown in Attachment SRH-8. This attachment contains a summary of PSNH's current rate level, rates and charges at the proposed rate level if all rates and charges were increased by an equal percentage amount (i.e., without any rate design changes), and the proposed redesigned rates and charges. To summarize the results of PSNH's rate design, all of the customer charges and meter charges for all classes of service were increased by the same approximately percentage. For all rate classes that have demand charges, those demand charges were also all increased by the same approximate percentage, Compared to charges without any rate design changes, energy charges were reduced to reflect the additional revenue to be obtained from higher customer and demand charges.

A description of the calculation for each rate class and sub-class follows. In each case, the comparison is between rates increased by a uniform percentage (no rate design changes) and the proposed, redesigned rates.

Residential Delivery Service Rate R: We increased the customer charge from the \$10.80
per month level that results from proportionally adjusting all rates and charges to \$12.00
per month. The increase in revenue that will result was used to reduce the energy charge
from 3.525 cents per kWh to 3.315 cents per kWh.

<u>Uncontrolled Water Heating:</u> The meter charge was increased from \$3.81 per month to \$4.25 per month, and the energy charge was reduced from 1.727 cents per kWh to 1.625 cents per kWh.

Controlled Water Heating: The meter charge was increased from \$6.71 per month to \$7.50 per month, and the energy charge was reduced by 0.006 cents per kWh. Although the cost of service study indicates a lower meter charge due to the age of the meters used to provide this service, we are proposing increasing the meter charge by the same approximate percentage as the proposed increase to the meter charge for uncontrolled water heating to keep the pricing for the two rates relatively consistent.

Residential Time-of-Day Delivery Service Rate R-OTOD: The customer charge was increased by the same approximate percentage as the increase to the Rate R customer charge, and energy charges were decreased by the same percentage as the decrease to the Rate R energy charge. Since this is such a small group of customers, they are included in the Residential Power and Light and Space Heating column of the embedded cost of service study. Therefore, pricing for Rate R-OTOD was changed consistently with the pricing for Rate R.

General Delivery Service Rate G: The customer charge for single phase service was increased from \$12.17 per month to \$13.50 per month; the customer charge for three phase service was increased from \$24.35 to \$27.00 per month; and the demand charge was increased from \$7.37 per kW to \$7.80 per kW. Energy charges were reduced by approximately 6.8% in recognition of the additional revenue to be derived from the higher customer and demand charges.

Space Heating: The meter charge was increased from \$2.43 per month to \$2.70 per month and the energy charge was reduced from 2.989 cents per kWh to 2.636 cents per kWh.

General Time-of Day Delivery Service Rate G-OTOD: This small group of customers was included in the Rate G Power and Light and Space Heating column of the embedded cost of service study. As a result, the customer, demand and energy charges were changed commensurately with the changes to the corresponding charges for Rate G.

Load Controlled Delivery Service Rate LCS: Customer charges for the radio-controlled and switch options were increased from \$7.77 per month to \$8.75 per month; the customer charge for the 8-, 10-, or 11-hour option was increased from \$6.71 to \$7.50 per month. Since the majority of these customers are Residential, the energy charges were reduced by the same percentage as the remaining Residential energy charges.

Primary General Delivery Service Rate GV: The customer charge was increased from \$163.90 per month to \$180.00 per month; demand charges were increased by the same approximate percentage as the demand charge for Rate G; and energy charges were decreased as required to achieve the class revenue target. In the cost of service study, no

distribution costs are allocated to energy. PSNH bills energy charges for distribution service in order to maintain continuity between rate classes and smooth the transition when a customer's load increases or decreases sufficiently to require the customer to take service under a different rate class.

Large General Delivery Service Rate LG: The customer charge was increased from \$498.15 to \$550.00 per month; the demand charge was increased by the same approximate percentage as the Rate G and Rate GV demand charges, from \$4.02 to \$4.25 per kVa, and energy charges were reduced as required to achieve the class revenue target. As in the case of Rate GV, there are no distribution costs allocated to energy in the cost study, and energy charges are set at a level that provides for rate continuity between classes.

Backup Delivery Service Rate B: The administrative charge was increased from \$280.86 per month to \$310.00 per month; the translation charge was increased from \$46.80 per month to \$52.00 per month; and the demand charge (for customers taking service below 115 kV) was increased from \$3.77 per kVa to \$4.00 per kVa. Customers are billed for energy under the otherwise applicable standard tariff rate schedule, so energy charges for Rate B customers will change based on the changes in energy charges in Rates GV and LG.

We did not make any changes to the design of the outdoor lighting service rates (Rates OL and EOL). Rather, the prices per luminaire were all increased by the same percentage amount.

- Q. Will any changes need to be made to rate design if the Commission approves a
- 2 different level of distribution revenue?
- Yes, changes might be needed to maintain relative relationships between rate classes and to moderate bill impacts on customers. We would need to examine the effect of any changes from the proposed revenue level and possibly make minor adjustments to some customer and/or demand charges. Beyond this, changes might be necessary to the extent that there is any recoupment or reimbursement of the difference between the level of permanent and temporary rates. I believe that the best way to address any such changes is through discussions and technical sessions with the parties once a final rate level has

11 V. DELIVERY SERVICE TARIFF

been determined by the Commission.

- 12 Q. Is PSNH proposing any changes to the language, terms or conditions of the tariff?
- 13 A. Yes, we are.

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- Q. Have you included anything in this filing that will assist the Commission and the parties in identifying all of the proposed changes?
- Yes, we have. We have provided three separate documents: a copy of the Delivery

 Service Tariff in its final form (Attachment SRH-2); a copy of the Delivery Service Tariff

 that highlights all of the new sections and blacklines all of the deleted sections

 (Attachment SRH-3); and a narrative entitled "Summary of Changes to PSNH's

 Currently Effective Tariff No. 6" that identifies and describes all of the tariff changes

 (Attachment SRH-4).
- Q. Please describe the proposed tariff changes and the reasons for each change.

1	A.	There are four proposed tariff changes. Three of the four changes are described below,	
2		while the forth change is described in Section VI.	
3	1)	Pole-mounted Apparatus Rental Under Primary General Service Rate GV and Large	
4		General Delivery Service Rate LG	
5		PSNH is proposing to add language to the Apparatus section of Primary General Service	
6		Rate GV and Large General Delivery Service Rate LG to indicate that PSNH is not	
7		required to rent pole-mounted apparatus. Customers receiving delivery service under	
8		Rate GV or Rate LG are currently responsible for furnishing, owning and maintaining all	
9		the necessary substation foundations, structures, and all controlling, regulating,	
10		transforming and protective apparatus. Upon a customer's request, PSNH will rent either	
11		pole-mounted or pad-mounted transforming apparatus to the customer at a charge of	
12		18% per year of the equipment cost. PSNH would like to have the option to refuse to	
13		rent pole-mounted transformers because PSNH has no control over the maintenance of	
14		the support structures or the area surrounding the support structures. PSNH will	
15		determine, on a case by case basis, whether or not a pole-mounted transformer can be	
16		rented from PSNH based on immediate hazards that may be present (such as trees and	
17		proximity to parking and delivery areas) and environmental considerations (such as the	
18		proximity to water supplies and water ways, including drains that lead to water ways). In	
19		situations where PSNH refuses to rent a pole-mounted transformer, the customer would	
20		have the option of renting a pad-mounted transformer from PSNH, assuming it can be	
21		installed in accordance with PSNH's environmental requirements and it is a standard size	
22		transformer that PSNH stocks in its inventory.	
23		In addition to adding language to indicate that PSNH is not required to rent pole-mounted	
24		apparatus, PSNH is also proposing to add language to indicate that PSNH is authorized to	
25		terminate an existing apparatus rental agreement and to remove a pole-mounted	

transformer upon 90 days written notice to a customer. PSNH would only utilize this authorization in the event a customer-owned structure supporting a PSNH owned polemounted transformer is deemed insufficient or threatened by trees or other hazards and the customer refuses to replace the support structure and/or to remove the hazard.

2) Meters Section of the Terms and Conditions for Delivery Service

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PSNH is proposing to add language to the Meters section of the Terms and Conditions for Delivery Service section of PSNH's Tariff to clarify that each unit of a new or renovated domestic structure with more than one dwelling unit will be metered separately and each meter will be billed as an individual customer. This language describes the metering policy PSNH has utilized since the early 1980's in compliance with the rules of the Public Utilities Commission.

Removal of the Option to Pay Excess Costs Over a Sixty Month Period from Outdoor Lighting Delivery Service Rate OL

PSNH is proposing to remove the option available to governmental units and civic groups to pay for excess costs associated with new installations, extensions and replacements under Rate OL, including interest at the Prime Rate over a period not to exceed sixty months. This tariff language has been in place since the early 1970's and is an outdated policy. PSNH is not aware of any instances over the past ten years where a governmental unit or civic group has paid excess costs under Rate OL over a time period. In its place, PSNH is proposing that all customers pay excess costs as a lump sum prior to the installation or replacement of the equipment under Rate OL. This is consistent with the policy used to collect excess costs under PSNH's existing and proposed line extension policies.

VI. MIDNIGHT OUTDOOR LIGHTING SERVICE OPTION

- 2 Q. Is PSNH proposing a new lighting service option?
- 3 A. Yes, we are. PSNH is proposing to add a midnight outdoor lighting service option to
- 4 Outdoor Lighting Delivery Service Rate OL and Energy Efficient Outdoor Lighting
- 5 Delivery Service Rate EOL.

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- 6 Q. Please briefly describe the midnight outdoor lighting service option that PSNH is proposing.
- A. Under the proposed midnight outdoor lighting service option (midnight option), a

 customer can receive partial night's lighting service (from dusk to midnight) for

 energy-efficient luminaires (i.e. high pressure sodium and metal halide). In order to

 receive service under the midnight option, the existing all-night photocell which turns the

 luminaire on at dusk and off at dawn will be removed and replaced with a photocell

capable of turning the luminaire on at dusk and off at midnight.

- Q. Why is PSNH proposing a midnight option?
- PSNH is proposing a midnight option because municipal outdoor lighting service 15 A. customers have expressed an interest in partial night outdoor lighting service as a way to 16 reduce their electric service bills and to reduce their kilowatt-hour consumption, thereby 17 reducing their carbon footprint. In addition, the New Hampshire legislature passed 18 House Bill 585, which encourages outdoor lighting efficiency at the municipal and state 19 level and requires utilities to offer a partial night option for unmetered outdoor lighting 20 service. PSNH worked with the legislature on House Bill 585 and made a commitment to 21 seek the Commission's approval of a partial night rate option in the near future following 22 passage of the bill. Offering a partial night outdoor lighting service option is also 23

- 1 consistent with PSNH's commitment to assist customers in managing their cost of
 2 electricity, to support energy-efficiency initiatives, and to support New Hampshire's
 3 clean energy goals and protecting the natural environment.
- 4 Q. If a customer has more than one luminaire, will the customer be allowed to select
 5 the midnight option for a portion of the luminaires?
- A. Yes. A customer will be able to select the midnight option for either a portion of their luminaires or for all of their luminaires.
- 8 Q. Please describe the rates under the midnight service option.
- 9 A. The distribution rates under the midnight service option are the same as the rates under the all-night service option, because the fixture (excluding the photocell), lamp and 10 maintenance costs do not change under the midnight option. The distribution rates are 11 12 flat monthly charges for each luminaire. However, transmission, stranded cost recovery, 13 energy service, system benefits charge and consumption tax rates are applied to the monthly kilowatt-hours associated with each luminaire. Monthly kilowatt-hours under 14 the midnight option will be lower, reflecting the number of dark hours in each month 15 16 from dusk to midnight. Therefore, municipalities will receive lower monthly charges for 17 all rates that are billed on a kilowatt-hour basis, since the monthly kilowatt-hours used for each luminaire under the midnight option will be lower than under the standard all-night 18 19 service.
- Q. Are customers required to pay any costs up-front before they can receive service under the midnight service option?

- 1 A. Yes. Since the additional equipment and installation cost associated with the new
 2 photocell are not reflected in the distribution charges under the midnight service option,
 3 customers requesting midnight service are required to pay for these costs prior to the
 4 installation of the new photocell. The following is a summary of the requirements of
 5 service under the midnight option:
- Customers requesting a modification of service from the all-night option to the midnight

 option are responsible to pay the estimated installed cost of the new photocell. The

 estimated installed cost includes the cost of the additional equipment required, labor,

 vehicles and overheads. If such a request is concurrent with PSNH's existing schedule

 for lamp replacement and maintenance, the customer is only responsible to pay for the

 estimated cost of the new photocell, since PSNH would already be at the location to

 replace the lamp and perform any required maintenance.
- Customers requesting a modification of service from the midnight option to the all-night

 option are responsible to pay the estimated installation cost of the all-night option

 photocell. The estimated installation cost includes the cost of labor, vehicles and

 overheads. If such a request is concurrent with PSNH's existing schedule for lamp

 replacement and maintenance, no additional costs are required to modify service from the

 midnight option to the all-night option.
- Customers requesting the <u>installation of a luminaire at a new location under the midnight</u>

 option are required to pay for the incremental cost of the midnight option photocell.

- Does PSNH plan to utilize fixed price estimates per luminaire for the estimated 1 Q. 2 installed cost, the additional equipment cost and the equipment installation cost? Yes. PSNH is proposing to utilize fixed price estimates per luminaire for the estimated A. 3 4 installed cost, the additional equipment cost and the equipment installation cost and will 5 update the fixed price estimates each year based upon current costs. Attachment SRH-9 6 contains PSNH's current estimate of the installed cost, the additional equipment cost and the equipment installation cost per luminaire. PSNH plans to update the estimates using 7 current costs upon the Commission's approval of the midnight service option and will 8 9 update the estimates annually.
- Q. Can a customer request a modification of their lighting service option at any time or is PSNH proposing to utilize a specific enrollment period each year?

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- PSNH is proposing to utilize a specific enrollment period each year to handle municipal and state roadway lighting customer requests to modify their lighting service from the all-night option to the midnight option. The open enrollment period is defined as the calendar months of January and February. Therefore, these customers may request a modification of their lighting service from the all-night option to the midnight option during this period only. Customer requests received after the enrollment period will be implemented during the next enrollment period, unless PSNH determines that it is feasible and practicable to implement the request prior to the next enrollment period. All other customer requests, as well as customer requests to modify their lighting service from the midnight option to the all-night option will be handled throughout the year at PSNH's discretion with consideration given to minimizing travel and set-up time.
- 23 Q. Why is PSNH proposing to utilize a specific enrollment period each year?

1	A.	PSNH is proposing to utilize a specific enrollment period each year to limit the number
2		of requests received from cities or towns to modify individual luminaires or a few
3		luminaires several times a year. PSNH would prefer to handle modifications of service
4		from the all-night option to the midnight option on a group basis once a year to limit
5		travel and set-up time; thereby resulting in a more efficient use of its limited resources
6		and lower costs to customers.

- Q. If traffic control is required by a city or town during a modification of service from
 the all-night option to the midnight option or from the midnight option to the
 all-night option, is the customer required to provide and to pay for the cost of traffic
 control?
- Yes. In the event traffic control is required by a city or town during a modification of the service option, the customer is responsible for coordinating and providing traffic control and for paying all costs associated with traffic control. If the customer requesting the modification of service is a residential or General Service Rate G customer, PSNH may coordinate and provide traffic control on the customer's behalf and the customer will be responsible to reimburse PSNH for all costs associated with the traffic control provided by PSNH.

Q. What savings will customers realize under the midnight service option?

Attachment SRH-10 contains a comparison of the annual charges per luminaire under the all-night option and the midnight option under Rate OL and Rate EOL based on rates effective January 1, 2009. As shown, customers receiving service under the midnight option will save from \$16.20 to \$308.26 annually per luminaire. The annual percentage savings ranges from 16.0% to 40.6% under Rate EOL and from 9.9% to 31.4% under Rate OL.

- Q. What is the simple payback to convert from the all-night option to the midnight option?
- 3 A. Attachment SRH-10 contains a calculation of the simple payback to convert from the 4 all-night option to the midnight option for each luminaire. As shown, if a customer 5 schedules a conversion from the all-night option to the midnight option that is not 6 concurrent with PSNH's existing plans for lamp replacement and maintenance, the 7 simple payback ranges from seven months to ten years using PSNH's current installed 8 cost estimate of \$160 per luminaire. If a customer schedules a conversion from the 9 all-night option to the midnight option concurrent with PSNH's existing schedule for 10 lamp replacement and maintenance, the simple payback ranges from one month to 15 months. 11
- 12 Q. Does this conclude your testimony?
- 13 A. Yes, it does.

QUALIFICATIONS OF STEPHEN R. HALL

CURRENT POSITION AT PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

Rate and Regulatory Services Manager

Responsible for regulatory relations at PSNH, including the interface with the NHPUC Staff on regulatory matters. Also responsible for various aspects of rate design, new service offerings, special contract development, rate policy and planning, special rate projects and related regulatory matters.

EDUCATIONAL BACKGROUND

Bachelor of Science Degree in Mathematics from the University of New Hampshire in 1977.

Master of Business Administration Degree from the University of New Hampshire in 1979.

Various managerial short courses offered by the Company.

PRIOR WORK POSITIONS AND EXPERIENCE

At PSNH

Assistant Rate Research Analyst, 1979
Rate Administrator, 1981
Rate Research Analyst, 1982
Staff Rate Research Analyst, 1983
Rate Research and Administration Supervisor, 1985
Rate Projects Manager, 1986
Rate Research and Administration Manager, 1989

PREVIOUS TESTIMONY

Testified before the NHPUC in every fuel adjustment, ECRM and FPPAC proceeding from June 1980 through December 1993. Also submitted testimony and/or testified in the following proceedings:

Docket No.	Docket Subject	Subject of Testimony
<u>NHPUC</u>		
DE 09-114	Transmission Cost Adjustment Mechanism	TCAM Pricing
DE 08-077	Lempster Wind Contracts	Rebuttal of Constellation Testimony
DE 08-071	Major Storm Cost Reserve	Pricing for MSCR Increase
DE 08-069	Transmission Cost Adjustment Mechanism	TCAM Pricing
DE 07-122	Hemphill Settlement	Cost Recovery for Payments to Hemphill
DE 07-108	Least Cost Plan	Rebuttal of Staff Testimony
DE 07-096		
& 07-097	ES & SCRC Settlement	Description of Settlement Agreement
DE 06-061	Energy Policy Act	Implementation of Standards for TOU Rates
DE 06-028	Delivery Rate Case	Tariff Changes, Rate Design
DE 04-072	Least Cost Plan	Standards for Least Cost Plans
DE 03-186	(Seabrook) Florida Power and Light	Criteria for Granting Public Utility Status
DE 03-200	Delivery Rate Case	Tariff Changes, Rate Design
DE 03-078	Wausau Papers	Special Pricing
DE 03-064	Fraser N.H. LLC Special Contract	Pricing for Incremental Load
DE 02-166	Transition Service	Transition Service Pricing
DE 02-127	Stranded Cost Recovery Charge	Stranded Cost Reconciliation
DE 02-064		
through	Hydro IPP Negotiations	Hydro IPP Settlements
DE 02-074		
DE 01-227	Sale of Vermont Yankee	Sale Approval
DE 00-211	Smith Hydro Valuation	Public Interest of Hydro Divestiture
DE 01-089		
through	IPP Renegotiations	IPP Settlement
DE 01-091		
DE 00-009	ConEd/NU Merger	Merger Settlement Agreement
DR 98-139	FPPAC BA & Special Contracts	Special Contracts
DR 98-014	FPPAC	FPPAC BA/Special Contracts
DR 96-390	Seacoast Mills Special Contract	Load Retention
DR 96-171	Heidelberg Special Contract	Load Retention
DR 96-138	Wausau Special Contract	Load Retention
DR 96-121	OSRAM SYLVANIA, Inc.	Load Development
DR 96-113	Unitrode Special Contract	Economic Development
DR 96-068	Isaacson Special Contract	Load Retention
DR 96-058	Elliott Rose of Madbury Special Contract	Load Development
DR 96-035	Praxair, Inc. Special Contract	Load Retention
DR 95-321	American Tissue Mill Of NH	Spec. Contract Business Retention
DR 95-320	Hitchiner Mfg., Inc./Metal Casting Tech.	Load Retention
DR 95-318	Bay Ridge Special Contract	Load Retention
DR 95-303	Wyman-Gordon Special Contract	Economic Development

Docket No.	Docket Subject	Subject of Testimony	
MIDLIC			,
NHPUC DR 05 270	Touture Consist Contract	Business Retention	
DR 95-270	Textron Special Contract	Retail Competition	
DR 95-250	Retail Competition Pilot Program	Business Retention	
DR 95-230	MPB Special Contract	Business Retention	
DR 95-214	Kollsman Special Contract	Business Retention/Economic Development	
DR 95-205	Teradyne, Inc.	Business Retention Business Retention	
DR 95-149	Nashua Foundries, Inc.	Economic Development	
DR 95-131	New England Wood Pellet Spec. Contract	Economic Development/Load Retention	
DR 95-129	Rehrig Pacific Special Contract	Load Retention	
DR 95-113	Elliott & Williams Roses Spec. Contract	Load Retention	
DR 95-103	Tourist Village Special Contract	Business Retention/Economic Development	
DR 95-070	Owens-Brockway Special Contract	Business Retention Business Retention	
DR 95-064	NH Ball Bearings Special Contract	Business Retention Business Retention	
DR 95-048	Batesville Casket Co. Spec. Contract	Business Retention	
DR 95-012	Summit Packaging Systems Spec. Contract	Business Retention Business Retention	
DR 94-311	Nashua Corp. Special Contract	Interruptible Service	
DR 94-309	CE-KSB Pump Co. Special Contract	Load Retention/Economic Development	
DR 94-293	Polyvac, Inc. Special Contract	Load Retention	
DR 94-255	Anheuser Busch Special Contract	Economic Development	
DR 94-252	Freudenberg-NOK Special Contract	Load Retention	
DR 94-193	PSNH Ski Areas Special Contracts	Load Retention	
through			
DR 94-200	Manadagale Danar Milla Spee Contract	Load Retention	
DR 94-135	Monadnock Paper Mills Spec. Contract Lockheed Sanders Special Contract	Business Retention/Economic Development	
DR 94-132	Wyman-Gordon Special Contract	Business Retention	
DR 94-074 DR 94-057	Excalibur Special Contract	Load Retention	
DR 94-037 DR 94-033	OSRAM Special Contract	Load Retention	
DR 93-247	Radio-Controlled Option Under Rate LCS	Space Heating Rate	
DR 93-247 DR 93-243	Gilford Special Contract	Load Retention	
DR 93-243 DR 93-103	Freudenberg-NOK Special Contract	Economic Development	
DR 93-103 DR 93-042	Bronze Craft Special Contract	Pilot Load Management Program	
DR 92-232	CE-KSB Pump Special Contract	Interruptible Service	
DR 89-058	Wentworth Special Contract	Rate WI	
DR 88-191	Wildcat Special Contract	Rate WI	
DR 88-190	Gunstock Special Contract	Rate WI	
DR 88-179	Bretton Woods	Rate WI	
DR 88-167	DRED	Rate WI	
DR 87-197	Rate WI Tariff Schedule	Interruptible Service	
DR 90-131	Rate WI Tariff Schedule	Interruptible Service	
DR 90-131 DR 89-171	Rate WI Tariff Schedule	Interruptible Service	
DR 88-126	Rate WI Tariff Schedule	Interruptible Service	
DR 84-131	Rate WI Tariff Schedule	Interruptible Service	
DR 84-131 DR 82-333	Rate Increase Request	Rate Design	
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DR 79-187	Nate merease Nequest	Tuto Dougas	

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Recovery of Schiller Conversion Costs

Resale Fuel Adjustment Rate

Maine Public Utilities Commission
DR 81-9 Retail Fuel Adjustment

Fuel Adjustment Rate

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