Before the Minnesota Public Utilities Commission State of Minnesota

In the Matter of the Application of Northern States Power Company for Authority to Increase Rates for Electric Service in Minnesota

> Docket No. E002/GR-15-826 Exhibit___(SVH-1)

> > Rate Design

November 2, 2015

Table of Contents

I.	Introduction and Qualifications					
II.	Revenue Determination					
III.	Rate	Rate Design				
	Α.	Pric	ing Objectives	7		
	В.	Clas	ss Revenue Apportionment	8		
	C.	Low	Income Discount	11		
	D.	Rate	e Design Proposals	14		
		1.	Residential and Small Commercial Customer Cha	rges 14		
		2.	Residential Service	19		
		3.	Residential TOD Service	19		
		4.	Residential Electric Vehicle Service	20		
		5.	C&I Demand Class Rate Design	20		
		6.	Street Lighting	24		
		7.	Fuel Clause Rider	25		
	E.	Dev	relopment of 2017 and 2018 Rates	25		
IV.	Cone	clusion	1	26		
			Schedules			
Quali	ification	ns		Schedule 1		
Sumr	nary of	Tarif	f Changes	Schedule 2		
C&I	Deman	d Clas	ss Margin Adjustment	Schedule 3		
Sales	and Re	evenue	es by Rate Schedule	Schedule 4		
Reve	Revenue by Major Rate Class					
Base Rate Revenue Comparison S						
Mont	thly Bil	l Com	parison	Schedule 7		
Volta	ige Disc	count	Analysis	Schedule 8		
Prop	osed Fi	uel Cla	use Rider	Schedule 9		
Prefil	led Dis	covery	7	Appendix A		

i

1		I. INTRODUCTION AND QUALIFICATIONS
2		
3	Q.	PLEASE STATE YOUR NAME AND OCCUPATION.
4	Α.	My name is Steven V. Huso. I am employed as a Pricing Consultant in
5		Regulatory Administration for Northern States Power Company Minnesota
6		(NSPM or the Company).
7		
8	Q.	PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.
9	Α.	I have 36 years of electric pricing experience with the Company. I provide rate
10		design, rate-revenue determinations, cost allocations and other pricing functions
11		for the utility operating subsidiaries of Xcel Energy Inc. My qualifications and
12		experience are further described in Exhibit(SVH-1), Schedule 1.
13		
14	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?
15	Α.	My Direct Testimony presents the Company's revenue determinations and
16		proposed class revenue responsibility and rate design. I also sponsor the
17		Company's rate schedules and tariffs. A summary of the tariff changes
18		proposed in this case is included as Exhibit(SVH-1), Schedule 2. The
19		proposed changes to rates and tariffs are provided in Volume 2F.
20		
21	Q.	How is your testimony organized?
22	Α.	I present the remainder of my testimony in the following sections:
23		• Revenue Determination;
24		• Rate Design; and
25		• Conclusion.
26		

1	Q.	DO YOU PROVIDE ANY ADDITIONAL INFORMATION RELATED TO THE
2		COMPANY'S RATE DESIGN?
3	Α.	Yes. Appendix A provides additional updated information related to
4		information requests from past rate cases.
5		
6		II. REVENUE DETERMINATION
7		
8	Q.	What are the 2016 test year electric revenues from sales at present
9		AND PROPOSED RATE LEVELS?
10	Α.	Table 1 shows 2016 test year revenues at present and proposed rates for the
11		NSPM-Minnesota electric jurisdiction. Total rate revenue includes retail rate
12		revenue and other increases. The "other increases" category includes the
13		incremental revenue increase associated only with the proposed retail revenue
14		increase for late payment charges and interdepartmental revenue. Total rate
15		revenue corresponds with the itemized retail rate category in our financial
16		statements of operating revenues. The interdepartmental category is
17		interdepartmental revenue at present rates, which corresponds to that itemized
18		category in our financial statements.

Docket No. E002/GR-15-826 Huso Direct

1	
2	

4

5

6

7

8

9

10

11

12 13

14

15 16

17

18

19

21

22

23 24

28

Table 1 **2016 Test Year Revenue** (\$ Thousands) NSPM-Minnesota Electric Jurisdiction

	Present	Proposed	Proposed Increase	
Retail Rate Revenue	\$3,033,285	\$3,227,476	\$194,191	6.40%
+Other Increases	0	421	421	
Total Rate Revenue	\$3,033,285	\$3,227,897	\$194,612	6.42%
Interdepartmental	809	809		
Total + Interdepartmental	\$3,034,093	\$3,228,706	\$194,612	6.41%

^{*}Amounts may not total due to rounding.

- Company witness Ms. Anne E. Heuer presents the 2016 test year total revenue
- requirement and deficiency in her Direct Testimony. Present and proposed
 - 2016 test year revenues are based on the application of present and proposed
 - rates to the 2016 test year budgeted sales and customers supported by
 - Company witness Ms. Jannell E. Marks in her Direct Testimony. Proposed
 - rates were developed to recover the 2016 test year revenue requirement.
- WHAT IS THE BASIS FOR THE RATES USED TO DETERMINE PRESENT REVENUE? Q.
- 20 Present rates are the final rates from the Company's most recent case, Docket
 - No. E002/GR-13-868, which became effective on November 1, 2015.
 - Q. What are the 2017 electric revenues from sales at present and
- PROPOSED RATE LEVELS?
- 25 Table 2 shows 2017 revenues at present and proposed rates for the NSPM-
- 26 Minnesota electric jurisdiction. Proposed 2017 revenues are also presented in
- 27 Company witness Mr. Charles R. Burdick's Direct Testimony.

Docket No. E002/GR-15-826 Huso Direct

1			Table 2	2				
2 3		2017 Plan Year Revenue (\$ Thousands) NSPM-Minnesota Electric Jurisdiction						
4					Proposed	Percent		
5			Present	Proposed	Increase	Increase		
		Retail Rate Revenue	\$3,031,800	\$3,277,921	\$246,121	8.12%		
6		+Other Increases	0	545	545	2.1.10.1		
7		Total Rate Revenue	\$3,031,800	\$3,278,466	\$246,667	8.14%		
8		Interdepartmental	808	808	#0.4 <i>C</i>	0.420/		
		Total + Interdepartmental *Amounts may not total due to	\$3,032,608	\$3,279,274	\$246,667	8.13%		
9		Timounts may not total due to	rounding.					
10								
11	Q.	How did you determine	PRESENT AN	D PROPOSEI	O REVENU	ES FOR 2017?		
12	Α.	Present revenue for the 20	17 plan year	is based o	n 2016 sa	les and the 201		
13		cost level for the Transmiss	ion Cost Re	covery (TCI	R) rider. I	t differs from th		
14		2016 test year present revenue listed in Table 1 only by the reduction in TCR						
15		rider revenue from 2016 to 2017, as described in more detail by Ms. Heuer.						
16		Proposed 2017 revenue is based on the application of proposed 2017 rates to						
17		the 2016 test year budgeted sales and customers supported by Ms. Marks.						
18		Proposed rates were deve	eloped to r	ecover the	2017 pla	an year revenu		
19		requirement.	-		•	-		
20		1						
21	Q.	WHAT ARE THE 2018 ELE	CTRIC REVE	NUES FROM	I SALES A	T PRESENT ANI		
22		PROPOSED RATE LEVELS?						
	٨			. 1	1 .	C A NODA		
23	Α.	Table 3 shows 2018 revenue	ues at preser	nt and prop	osed rates	s tor the NSPM		

Mr. Burdick's Direct Testimony.

24

25

Minnesota electric jurisdiction. Proposed 2018 revenues are also presented in

Table 3 2018 Plan Year Revenue (\$ Thousands) NSPM-Minnesota Electric Jurisdiction

	Present	Proposed	Proposed Increase	
Retail Rate Revenue	\$3,030,366	\$3,326,840	\$296,474	9.78%
+Other Increases	0	659	659	
Total Rate Revenue	\$3,030,366	\$3,327,499	\$297,133	9.81%
Interdepartmental	808	808		
Total + Interdepartmental	\$3,031,173	\$3,328,307	\$297,133	9.80%

^{*}Amounts may not total due to rounding.

1 2

11 Q. How did you determine present and proposed revenues for 2018?

A. Present revenue for the 2018 plan year is based on 2016 sales and the 2018 cost level for the Transmission Cost Recovery (TCR) Rider. It differs from the 2016 test year present revenue listed in Table 1 only by the reduction in TCR Rider revenue from 2016 to 2018, as described in more detail by Ms. Heuer. Proposed 2018 revenue is based on the 2018 revenue requirement supported by Mr. Burdick. The Company's proposal for plan year 2018 rates is to use 2017 plan year base rates as a basis and apply an equal factor to those base rates, which is the methodology used for interim rate adjustments.

- Q. DO PRESENT AND PROPOSED REVENUES INCLUDE ANY ECONOMIC DEVELOPMENT DISCOUNTS?
- A. Yes. Economic development discounts are included for one Competitive Response Rider account and five Business Incentive and Sustainability (BIS)
 Rider accounts. The five recognized BIS accounts include known discounts for one established rate application and estimated discounts for four pending rate applications of the discount. The estimated discounts assume 500 kW per account that qualifies for the discount, which is a conservative placeholder

1		estimate with 350 kW as the minimum qualifying load. We be able to update
2		this information as the pending loads become known.
3		
4	Q.	DID YOU CALCULATE THE COMMERCIAL AND INDUSTRIAL DEMAND CLASS
5		MARGIN ADJUSTMENT USED BY MR. BURDICK AS A REVENUE REQUIREMENT
6		ADJUSTMENT TO PLAN YEARS 2017 AND 2018?
7	Α.	Yes. I calculated the base rate revenue increases from test year 2016 to plan
8		years 2017 and 2018 for the corresponding yearly sales increases for the
9		Commercial and Industrial (C&I) Demand class cost category. These
10		increases were determined by substituting 2017 and 2018 plan year sales and
11		customers into the Company's revenue model that was used to determine
12		2016 test year revenue. This revenue model determines revenue by individual
13		detailed billing units and rate components for every electric service category.
14		The margin adjustments represent the base rate revenue increases over test
15		year 2016 for the C&I Demand class. As a base rate margin adjustment, the
16		net adjustment amounts exclude the amount of the Conservation
17		Improvement Program (CIP) Adjustment Rider included in base rates, which
18		is the Conservation Cost Recovery Charge (CCRC). Exhibit(SVH-1),
19		Schedule 3 shows the changes in sales and base revenue, in detail by the three
20		major sales classifications for the C&I Demand class cost category: Small
21		Commercial and Industrial, Large Commercial and Industrial, and Other Sales
22		to Public Authorities.
23		
24	Q.	HAVE YOU PROVIDED ADDITIONAL COMPARISONS OF PRESENT AND

- 25 PROPOSED REVENUES?
- 26 A. Yes. I prepared the following summary and detailed comparisons of present 27 and proposed rate revenues, as required by Minn. R. 7825.4300, parts A and

1		B, and the Commission's June 17, 2013 Order in Docket No. E,G999/M-12-
2		587:
3		Sales and Revenue by Rate Schedule
4		o 2016 Test Year: Exhibit(SVH-1), Schedule 4, page 1 of 3.
5		o 2017 Plan Year: Schedule 4, page 2 of 3
6		o 2018 Plan Year: Schedule 4, page 3 of 3.
7		• Revenue by Major Rate Class
8		o 2016 Test Year: Exhibit(SVH-1), Schedule 5, page 1 of 3.
9		o 2017 Plan Year: Schedule 5, page 2 of 3
10		o 2018 Plan Year: Schedule 5, page 3 of 3.
11		Sales and Revenue by Rate Schedule and Component
12		o 2016 Test Year and 2017 and 2018 plan years Filed in Required
13		Information, Volume 3.
14		
15	Q.	Please describe Exhibit(SVH-1), Schedule 6 and Exhibit(SVH-
16		1), Schedule 7.
17	Α.	Schedule 6 compares present base rates to proposed 2016 and 2017 base rates,
18		both with and without fuel costs. Schedule 7 is a monthly bill comparison of
19		the present and proposed 2016 and 2017 rates at different usage levels. The
20		schedules comply with Commission's August 31, 2015 Order, Order Point 12
21		(d) regarding rate and bill impacts in Docket No. E002/GR-13-868.
22		
23		III. RATE DESIGN
24		
25		A. Pricing Objectives
26	Q.	DOES THE COMPANY USE PRICING OBJECTIVES TO GUIDE THE DEVELOPMENT
27		OF ITS PROPOSED CLASS REVENUE APPORTIONMENT AND RATE DESIGN?

1	Α.	Yes. The Company's pricing proposals use the following four objectives to
2		develop rates that:
3		1. Produce total annual revenue that matches the corresponding revenue
4		requirement in order to allow the Company a reasonable opportunity to
5		earn its authorized return on investment;
6		2. Accurately reflect the resource costs of providing service and, where
7		appropriate, the market value of the service;
8		3. Provide sufficient flexibility in pricing levels and provisions for our
9		electric service to remain competitive in the broader energy market; and
10		4. Provide reasonable pricing by considering the importance of rate
11		continuity, customer understanding, revenue stability, and
12		administrative practicality.
13		
14	Q.	HOW DOES THE COMPANY APPLY THESE OBJECTIVES WHEN DESIGNING
15		RATES?
16	Α.	The first objective is a requirement to ensure that proposed rates accurately
17		correspond to the proposed total revenue requirement. Allowing for this
18		requirement, the starting point is the electric service costs by class and rate
19		component as the standard for determining equitable rates that encourage the
20		economically efficient use of resources. From this objective cost basis, we
21		consider and balance the remaining objectives according to circumstances to
22		determine a proposed rate design that is reasonable and fair for all customers.
23		
24		B. Class Revenue Apportionment

Class Revenue Apportionment В.

25 Q. What process was used to develop the proposed class revenue 26 APPORTIONMENT?

A. Consistent with our application of pricing objectives, the starting point for proposed class revenue apportionment is the cost responsibility for each customer class. Class cost responsibility is determined by the Class Cost of Service Studies (CCOSS) sponsored by Company witness Mr. Michael A. Peppin. The resulting cost increases by class are then considered individually and relative to the total retail increase for adjustment for moderation or other considerations.

- 9 Q. What are the class cost responsibilities and proposed class 10 increases in this case?
- 11 A. Table 4 shows the CCOSS class cost responsibilities and the proposed class apportionment for years 2016, 2017 and 2018.

Table 4
Cost of Service and Proposed Revenue Apportionment (\$ Thousands)
NSPM-Minnesota Electric Jurisdiction

16		Present	Co	st	Proposed 1	Revenue
17	Class	Revenue	Amount	Increase	Amount	Increase
	TY 2016					
18	Residential	\$1,079.7	\$1,180.9	9.38%	\$1,170.4	8.40%
19	Non-Demand	\$111.8	\$115.0	2.92%	\$116.3	4.09%
17	C&I Demand	\$1,815.3	\$1,901.3	4.74%	\$1,911.6	5.31%
20	Lighting	\$26.6	\$30.2	13.59%	\$29.2	10.00%
21	Total	\$3,033.3	\$3,227.5	6.40%	\$3,227.5	6.40%
21	TY 2017					
22	Residential	\$1,079.2	\$1,208.8	12.01%	\$1,195.2	10.75%
	Non-Demand	\$111.7	\$117.1	4.84%	\$118.4	5.97%
23	C&I Demand	\$1,814.3	\$1,919.5	5.79%	\$1,934.1	6.60%
24	Lighting	\$26.6	\$32.5	22.35%	\$30.2	13.59%
∠ 4	Total	\$3,031.8	\$3,277.9	8.12%	\$3,277.9	8.12%
25	TY 2018					
2.6	Residential	\$1,078.7	\$1,228.9	13.92%	\$1,214.5	12.59%
26	Non-Demand	\$111.7	\$118.9	6.44%	\$120.2	7.68%
27	C&I Demand	\$1,813.4	\$1,944.8	7.25%	\$1,961.4	8.16%
∠ 1	Lighting	\$26.6	\$34.2	28.92%	\$30.7	15.59%
28	Total	\$3,030.4	\$3,326.8	9.78%	\$3,326.8	9.78%

^{*}Amounts may not total due to rounding.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

2 Q. What is the basis for the proposed class apportionments in Table 4?

The primary basis for years 2016 and 2017 was a 67 percent movement to cost for all customer classes except the lighting class. This proposed two-thirds cost movement was reached to achieve balance between 50 percent and 75 This proposal provides both significant percent movements to cost. moderation and significant movement to cost. The lighting class required further moderation to recognize its relatively larger cost difference, which resulted in a proposed 50 percent cost movement for test year 2016. For 2017, the proposed lighting class increase was further moderated by limiting its proposed revenue to the test year 2016 cost level. To offset the limited cost movement for the lighting class, the revenue reduction in the lighting class difference from a 67 percent cost movement was distributed proportionately based on revenue to the other classes. For 2018, proposed revenue for all classes is proposed plan year 2017 class base rate revenue increased by an equal factor representing the increased retail revenue requirement from 2017 to 2018. Rather than proposing individual 2018 rates as for years 2016 and 2017, the Company proposes implementing the plan year 2018 revenue requirement by using the equal factor as a percent increase applied to the base rates in effect at that time.

21

22

Q. How do you define movement to cost?

A. Cost movement refers to the difference between the total percent increase to cost for an individual customer class and the average retail cost percent increase. A representative hypothetical example can be shown with increases to the cost of service of 6 percent retail and 10 percent for a particular customer class. In this example, cost movement is measured by the amount

1		of this four percent differential that is included in the proposed increase. A
2		class increase of 6 percent would represent no movement to cost, while a 10
3		percent increase would represent 100 percent movement to cost.
4		Correspondingly, a 9 percent class increase would be a 75 percent movement
5		to cost, determined as the retail 6 percent increase plus 3 percent (representing
6		75 percent of the remaining 4 percent).
7		
8	Q.	CAN A PROPOSED REVENUE APPORTIONMENT BE ADJUSTED FOR A DIFFERENT
9		FINAL REVENUE REQUIREMENT APPROVED BY THE COMMISSION?
10	Α.	Yes. The proportional class revenue responsibilities that are represented by a
11		proposed class revenue apportionment at particular total retail increase
12		amount can be applied to a final ordered retail revenue requirement. This
13		proportional factoring approach is reasonable and has been previously used
14		for Company compliance filings to accurately maintain a Commission
15		approved class revenue apportionment at a different rate level. This approach
16		can also accommodate revisions to class cost allocations or approved percent
17		movements to cost, and updated sales and revenues.
18		
19		C. Low Income Discount
20	Q.	DOES THIS RATE CASE FILING INCLUDE A PROPOSAL TO INCLUDE RECOVERY
21		OF LOW INCOME PROGRAM COSTS THROUGH BASE RATES?
22	Α.	Yes. In compliance with the Commission's September 26, 2014 Order in
23		Docket No. E002/M-04-1956 regarding amended Minn. Stat. § 216B.16,
24		subd. 14, this filing recognizes our Base low income program funding in base
25		rates. Present revenue includes the updated Base program surcharges that are
26		effective January 1, 2016, as included in our September 17, 2015 Low Income
27		Discount Program compliance filing in Docket Nos. E002/M-04-1956 and

1		E002/GR-13-868. When applied to the applicable billing units by customer
2		class for the test year 2016 detailed rate revenue determination (Sales and
3		Revenue by Rate Schedule and Component, Filed in Required Information,
4		Volume 3), these base rate surcharges yield revenue of \$8,863,000. We have
5		applied a matching revenue reduction of this same amount to the residential
6		class that receives the low income program benefit, for a zero net retail
7		revenue impact.
8		
9	Q.	DOES THE DETAILED RATE REVENUE DETERMINATION PRESERVE THE
10		CURRENT CLASS COST ALLOCATION FOR PROGRAM FUNDING?
11	Α.	Yes. As background, the current program surcharges, which vary by customer
12		classification, are currently recovered as an itemized rider charge on customer
13		bills as a monthly fixed surcharge in the same form as the monthly customer
14		charge. We recognized the current weighted customer charge allocation
15		method for present rate revenue and retained it for proposed rate revenue
16		using proposed customer charge amounts. The Base low income program
17		surcharges were added to customer charges in the detailed rate revenue
18		determination to recognize this funding allocation.
19		
20	Q.	IS THE COMPANY PROPOSING TO INCLUDE THE BASE PROGRAM RATE
21		SURCHARGES FOR THE LOW INCOME PROGRAM IN THE CUSTOMER CHARGES
22		FOR EACH APPLICABLE RATE SCHEDULE AND FOR CUSTOMER BILLING?
23	Α.	No. There is no advantage to combining low income program surcharges into
24		the customer charge rate component and there are some disadvantages.
25		Accounting and tracking of low income program funding are more
26		transparent with a separate charge component. Additionally, accurate class
27		funding allocations can be directly confirmed with a separate charge

1		component for the low income program. To maintain these advantages and
2		an efficient single source of the surcharges in rate sheets, the Company
3		recommends retaining the surcharge in the current location of the Low
4		Income Energy Discount Rider.
5		
6	Q.	WOULD RETAINING SURCHARGES IN THE LOW INCOME ENERGY DISCOUNT
7		RIDER BE CONSISTENT WITH THE REQUIRED BASE RATE TREATMENT OF THE
8		PROGRAM?
9	Α.	Yes. The rate revenue from rate riders can be considered as either base rate
10		revenue or as rider revenue. Conventionally, only specific cost recovery riders
11		such as the TCR Rider are not considered or accounted for as base rate
12		revenue. The Residential Controlled Air Conditioning and Water Heating
13		Rider, known as Savers Switch, for example, is accounted for as base rate
14		revenue.
1415		revenue.
	Q.	HOW IS THE COMPANY'S PROPOSAL TO INCREASE LOW INCOME PROGRAM
15	Q.	
15 16	Q.	How is the Company's proposal to increase low income program
15 16 17		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design?
15 16 17 18		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design? The allocation of relative proposed surcharge levels to customer classes in
15 16 17 18 19		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design? The allocation of relative proposed surcharge levels to customer classes in base rates was updated to reflect proposed customer charges, consistent with
15 16 17 18 19 20		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design? The allocation of relative proposed surcharge levels to customer classes in base rates was updated to reflect proposed customer charges, consistent with the Commission-approved customer charge weighted allocation methodology
15 16 17 18 19 20 21		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design? The allocation of relative proposed surcharge levels to customer classes in base rates was updated to reflect proposed customer charges, consistent with the Commission-approved customer charge weighted allocation methodology that is currently being used. The amounts of proposed surcharges were then
15 16 17 18 19 20 21 22		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design? The allocation of relative proposed surcharge levels to customer classes in base rates was updated to reflect proposed customer charges, consistent with the Commission-approved customer charge weighted allocation methodology that is currently being used. The amounts of proposed surcharges were then increased to recover the additional \$3 million funding. As with present rate
15 16 17 18 19 20 21 22 23		How is the Company's proposal to increase low income program funding by \$3 million treated for proposed rate design? The allocation of relative proposed surcharge levels to customer classes in base rates was updated to reflect proposed customer charges, consistent with the Commission-approved customer charge weighted allocation methodology that is currently being used. The amounts of proposed surcharges were then increased to recover the additional \$3 million funding. As with present rate revenues, this additional funding is offset in proposed rate revenues as a

1 2		Table Base Program Surc		ГҮ 2016	
3		Customer Class	Present	Proposed	
4		Residential	\$0.53	\$0.75	
5		C&I Non-Demand	\$0.71	\$0.90	
6		C&I Demand	\$2.13	\$1.94	
7	D.	Rate Design Proposals			
8	Q.	IS THE COMPANY PROPOSING ANY SIGN	NIFICANT I	RATE DESIG	N CHANGES IN
9	₹.	THIS CASE?	. (11 10/11 (1 1	erre beore	IV GILLIVOLO IIV
	Λ				
10	Α.	1 1 0		Ü	
11		Proposed rates generally include only i			-
12		between rate components. More signi	ficant char	nges are des	cribed in the
13		follow sections.			
14					
15		1. Residential and Small Comm	iercial Custo	mer Charges	
16	Q.	DOES THE COMPANY PROPOSE TO INC	REASE THE	E CUSTOMER	R CHARGE FOR
17		RESIDENTIAL AND SMALL COMMERCIAL	L CUSTOME	ERS?	
18	Α.	Yes. We propose a \$2.00 increase to the	he fixed m	onthly cust	omer charge for
19		residential and small commercial custo	mers. Thi	s proposal i	s for the
20		following rate schedules: Residential So	ervice, Res	idential Tin	ne-of Day Service,
21		Small General Service, and Small Gene	eral Time-o	of Day Serv	ice. This is a
22		moderate proposal for pricing that mo	re precisel	y represents	s the different
23		types of electric service costs, including	g fixed cus	stomer relate	ed costs and
24		variable energy related costs. The object	ective of th	iis proposal	is to improve
25		fairness between all customers and to	provide m	ore appropr	riate and
26		economically effective price signals.			

1	Q.	WHY IS ACCURATELY REPRESENTING THE DIFFERENT TYPES OF ELECTRIC
2		SERVICE COSTS AN IMPORTANT CONSIDERATION FOR PRICING?
3	Α.	In addition to the basic fairness of having prices that more closely distribute
4		cost responsibility, accurate pricing gives customers the necessary information
5		to make the energy usage and supply decisions that minimize system costs and
6		extract the maximum value from energy resources. The need for accurate cost
7		information through pricing is growing as customers are increasingly able to
8		respond to electric pricing. Improving technology, such as for renewable
9		distributed generation resources and battery storage, gives customers more
10		options for making decisions about energy usage and supply options. As
11		customers have more options, it becomes increasingly important that the
12		economic value of those options not be distorted by large differences between
13		electric pricing and electric service costs.
14		
15	Q.	WHY ARE SUCH DISTORTIONS HARMFUL?
16	Α.	When energy prices exceed variable cost, as required to recover fixed costs
17		excluded from customer charges, customers have an economically
18		unsupported extra incentive for purchasing their own generation sources.
19		However, what is good for the individual customer in this case is not good for
20		other customers and does not lead to minimizing system costs. Rather than
21		contributing to the recovery of fixed costs included in energy prices, such
22		customers have an incentive and often the ability to respond to their over
23		allocation of fixed costs from a below cost customer charge, which simply
24		ends up unnecessarily raising the cost to all other customers.
25		
26		Energy prices that overly subsidize fixed customer related costs also
27		overburden customers with above-average energy usage that occurs not from

1		a lack of conservation, but from unavoidable individual circumstances such as
2		an above-average household size or a reliance on electric appliances such as
3		water heaters or clothes dryers that more commonly operate with natural gas.
4		
5	Q.	DOES ADDING FIXED COST TO THE ENERGY PRICE PROVIDE A CONSERVATION
6		INCENTIVE?
7	Α.	Yes. That much is clear, but the larger issue is the reasonable extent of that
8		extra conservation incentive. As a policy issue, some non-cost-based addition
9		to energy prices can be reasonable, but there are also disadvantages of such an
10		approach that should be acknowledged. These include disincentives to
11		minimizing total system costs and reducing equity between customers. An
12		added conservation incentive can be reasonable, but it should not rise to the
13		level of punitively reducing the value of electricity to conservation minded
14		customers with unavoidable individual circumstances that result in above-
15		average electric energy usage.
16		
17	Q.	DOES THE CUSTOMER CHARGE PROPOSAL RETAIN A SUBSTANTIAL
18		CONSERVATION INCENTIVE IN ENERGY PRICES?
19	Α.	Yes. Residential Service has four customer charge levels based on service
20		distinctions, with a weighted average present customer charge of \$8.72. This
21		average is \$10.72 with the proposed \$2.00 increase, which is only 57 percent
22		of the \$18.65 fixed customer-related cost shown in the Company's proposed
23		test year 2016 CCOSS, and 54 percent of the \$19.74 cost for plan year 2017.
24		For residential customers, this \$8.00 per month cost differential would
25		transfer over \$96 million of fixed customer-related costs to be recovered
26		through proposed energy prices.

Docket No. E002/GR-15-826 Huso Direct

1		Similar to the Residential Service cost relationship, the Small General Service
2		present customer charge of \$10.00 is proposed to change to \$12.00, which is
3		still substantially less than its \$18.44 cost from the Company's proposed test
4		year 2016 CCOSS.
5		
6	Q.	IS REVENUE STABILITY THE REASON FOR THE PROPOSED CUSTOMER CHARGE
7		INCREASE?
8	Α.	No. Revenue stability, while providing benefits to utilities and its customers,
9		is not a primary reason for the Company's proposal. Although the proposal
10		would increase revenue stability, the main purpose of the proposal is to more
11		precisely recognize electric service costs and to improve equity between
12		customers. Ultimately, the ability to minimize future system costs through
13		more accurate pricing is a significantly more important consideration than
14		revenue stability. Although the Company has a new decoupling rate provision
15		that helps to stabilize revenues, that provision does not address customer
16		equity or reduce the need for accurate pricing.
17		
18	Q.	What is the net impact of proposed energy charges and the $\$2.00$
19		PROPOSED CUSTOMER CHARGE INCREASE?
20	Α.	The incremental customer impact of the proposed customer charge is \$2.00
21		per month only for a customer with no energy usage. The \$2.00 increase is
22		fully offset by the energy charge at the customer average usage of 620 kWh for
23		standard residential customers. At relatively low monthly usage of 310 kWh,
24		the net incremental customer charge impact is a \$1.00 monthly increase.
25		
26	Q.	DO THE PROPOSED PERCENT INCREASES FOR JUST THE CUSTOMER CHARGE
27		COMPONENT INDICATE ITS REASONABLENESS?

A. No. A reasonable and objective evaluation of the proposed \$2.00 increase requires a broader analysis than a single measure for a single rate component. The percent increase to the customer charge rate component is only a single measure that cannot be adequately evaluated outside the context of related measurements. The \$2.00 amount of the increase should also be considered, particularly net of the offsetting energy charge impact. The fact that the customer charge is not a majority component of typical electric bills requires its evaluation in the context of the total proposed bill increase measured in both the amount and percent terms.

Α.

Q. How would the proposed rate design charges affect affordability for low-income customers?

Rate design for residential customers essentially defines the relationship between fixed customer charges and variable energy charges. Residential rate design can affect affordability for a category of customers only when: 1) a specific group of customers has significantly different energy use than the entire residential customer class; and 2) when there is a significant relative difference between proposed increases for fixed and variable pricing. The Company's proposed residential rate design does not materially affect affordability for low-income customers because both of these conditions do not exist. The energy usage of low-income customers is only very slightly less than the energy usage of other residential customers and a significant percentage of low-income customers have above average energy usage. There is also not an unreasonably wide difference between proposed fixed and variable pricing components.

2. Residential Service

- 2 Q. Please describe the proposed rate design for Residential Service.
- 3 In addition to the proposed customer charges, proposed energy rates continue 4 to recognize a seasonal energy rate differential. The electric space heating 5 category also continues to have lower energy charges during the non-summer 6 months of October through May to recognize cost of service differentials. 7 Corresponding to the overall cost of service differential for electric space 8 heating service, the overall proposed Residential Service increase of 8.4 9 percent was distributed as an 8.6 percent increase for standard non-heating 10 service and a 4.2 percent increase for electric space heating service. The 11 corresponding 2016 test year cost increases for standard non-heating service

13

14

12

1

3. Residential Time of Day (TOD) Service

Q. Do you propose any refinements to the rate design for Residential
 TOD Service?

are 9.9 percent and 1.9 percent for electric space heating service.

17 Α. Yes. Although no revisions are proposed to the basic rate design structure for 18 Residential TOD Service, an update is proposed to the ratio between on-peak 19 and off-peak energy rates. The present ratio including the cost of fuel is 3.5 to 20 1 and the comparable proposed ratio is 3.0 to 1, which is consistent with ratio 21 in the Company's recently established Residential Electric Vehicle Service 22 tariff, as approved in Docket No. E002/M-15-111. The Company's Petition 23 in that docket noted the 3.0 to 1 ratio considered both the current forecast 24 ratio of on-peak to off-peak marginal energy costs of 2.6 to 1 and the present 25 Residential TOD 3.5 to 1. The proposed 3.0 to 1 ratio will allow consistency 26 in the energy rates between the two tariffs.

	T)	• 1	. •	7 T 7	. •	т	7	1 •	7	C	
4	К	esider	111Al	$H H I \rho i$	rtmr	-12	101	りょし	P	10	rnnce

- Q. Does the present tariff for Residential Electric Vehicle Service
 Have energy rates that are consistent with other tariffs?
- 4 A. No. The Company's Petition for an electric vehicle charging tariff in compliance with Minnesota Statute Section 216B.1614 was filed January 30,
- 6 2015, and the approved Residential Electric Vehicle Service tariff became
- 7 effective August 1, 2015. As a result of this timing difference with the most
- 8 recent case filing, this tariff was not increased to the rate level consistent with
- 9 the final rates from that rate case that became effective on November 1, 2015.
- However, the Company's proposed rates in this rate case reestablish its
- 11 consistency with the rate level Residential TOD Service and other tariffs.

13

14

1

5. C&I Demand Class Rate Design

a. Base Energy Charges

- 15 Q. How did you develop the proposed energy charge for the C&I
- 16 DEMAND CLASS?
- 17 A. The starting point for the proposed C&I Demand class energy charges was
- the 6.3¢ per kWh cost of service at secondary voltage for the total of energy-
- related costs and energy-related capacity costs. Next, the fuel cost of 2.7¢ per
- 20 kWh was subtracted and the average 0.2¢ per kWh cost of the Energy Charge
- 21 Credit (ECC) was added to establish a reference point of 3.8¢ per kWh to
- guide the determination of the General Service base energy charge. This
- 23 reference point was moderated to the proposed energy charge of 3.564¢ per
- kWh to recognize the significantly lower present energy charge of 3.201¢ per
- 25 kWh and the effect of moving the present \$0.68 per kW charge for the TCR
- Rider into base rates. The proposed increase for the total of General Service
- base energy and fuel costs is 6.0 percent.

Q. Do proposed energy charges for General TOD Service maintain
 THE PRESENT RATE RELATIONSHIP WITH THE GENERAL SERVICE ENERGY
 CHARGE?

A. Yes. As with present rates, proposed TOD base energy rates are derived from the proposed General Service non-TOD base energy rate, by de-averaging the flat energy rate by a TOD ratio for the relative difference between on-peak and off-peak rates. In particular, the proposed non-TOD rate is equal to the weighted average of TOD rates as applied to the TOD usage pattern of only non-TOD customers. This produces the same result as the weighted average of TOD rates as applied to the TOD usage pattern of only TOD customers.

12

13

14

Q. How do the TOD ratios for base energy rates and fuel cost charges compare to prior rate cases?

15 A. The proposed base energy ratio continues the increasing trend to moderate 16 and balance the prescribed decreasing trend of the fuel cost ratio as shown in 17 Table 6.

18

19

20

Table 6 Comparison of Test Year On-Peak Ratios

21
22
23
24
25
26

Test	Base Energy	Fuel Cost	Combined
Year	Ratio	Ratio	Ratio
2006	1.67	1.67	1.67
2009	1.70	1.87	1.79
2011	1.69	1.63	1.66
2013	1.82	1.61	1.72
2014	2.01	1.59	1.80
2016	2.07	1.53	1.82

3		This proposal maintains the proposed ECC at the same percentage of the base
4		energy rate as in present rates.
5		
6		b. Firm Service Demand Charges
7	Q.	HOW DID YOU DEVELOP THE PROPOSED FIRM SERVICE DEMAND CHARGES FOR
8		THE C&I DEMAND CLASS?
9	Α.	The proposed demand charges are calculated to recover the proposed C&I
10		Demand class revenue remaining after considering revenue from other rate
11		components, including customer and energy charges, voltage discounts and
12		interruptible service credits.
13		
14	Q.	DOES THE PROPOSED C&I DEMAND RATE DESIGN PRODUCE CUSTOMER BILL
15		INCREASES THAT SIGNIFICANTLY VARY BY LOAD FACTOR?
16	Α.	No. The proposed rate design produces similar percent increases by load
17		factor, as shown in Schedule 7 as the different percent increases for customer
18		load factors defined at the 200, 400 and 600 hours-use levels.
19		
20		c. Interruptible Service
21	Q.	Is the Company proposing an increase in the interruptible service
22		DISCOUNTS?
23	Α.	Yes. A modest increase is proposed for interruptible service discounts to help
24		moderate proposed bill increases for those customers. The effective discount
25		for interruptible service is the difference between firm and controllable
26		demand charges. The proposed increase to the total amount of demand
27		charge discounts is 1.84%. The following table compares present and

The present ECC of 1.40¢ per kWh is proposed to increase to 1.56¢ per kWh.

WHAT IS THE PROPOSED LEVEL OF THE ECC?

1

2

Q.

proposed discounts by Tier and Performance Factor (PF) category of interruptible service.

3

5

6 7

8

9

Table 7 Present and Proposed Interruptible Discounts NSPM-Minnesota Electric Jurisdiction (Average Monthly Discount per kW)

 Tier-PF
 2-C
 2-B
 2-A
 1-C
 1-B
 1-SN

 Present
 \$4.43
 \$3.93
 \$3.12
 \$5.20
 \$4.63
 \$5.70

 Proceed to the control of the contr

\$5.70 \$3.14 **Proposed** \$4.52 \$4.01 \$5.30 \$4.72 \$5.80 Increase \$0.09 \$0.08 \$0.02 \$0.10 \$0.09 \$0.10 Increase % 2.0% 2.0% 0.6%1.9% 1.9% 1.8%

11

13

14

15

16

17

18

19

20

21

22

10

12 Q. HOW DID YOU DETERMINE THE PROPOSED DISCOUNTS?

A 2 percent discount proposed increase was established for the Tier 2 Performance Factor C interruptible service category as a significant contribution to moderating the C&I-Demand proposed overall increase of 5.3 percent. This resulted in proposed increases for Peak-Controlled Services that are higher than their firm service counterparts, by only 0.31 percent for non-TOD and 0.37 percent for TOD. The percent increases for the other interruptible service categories were established relative to established discount relationships. As an exception to recognize its relatively lower value, only a nominal increase is proposed for the Tier 2 Performance Factor A discount.

23

24

d. Voltage Discounts

- Q. Are you proposing any revisions to the voltage discounts that are a part of the C&I Demand Tariffs?
- A. Yes. Moderate decreases are proposed for the demand charge discounts at all voltage levels to recognize a reduction in the cost basis for those discounts. A \$0.10 decrease is proposed for Primary voltage and a \$0.05 decrease is

proposed for Transmission Transformed and Transmission voltage levels, as shown on Exhibit___(SVH-1), Schedule 8, page 1 of 2. Also, as shown on Schedule 8, page 2 of 2, proposed energy charge voltage discounts have been updated for the proposed level of base energy and fuel charges.

6. Street Lighting

- Q. Does the proposed increase for the lighting class vary by rate schedule, and does it recognize cost differentials by subcategory within the lighting class?
 - A. Yes. The proposed percent revenue increases for each lighting rate schedule vary recognize lighting sub-category cost differences in the CCOSS. Street lighting for municipal customers includes the System and Energy service cost categories. System service is full service lighting that includes the lighting system, energy, maintenance and repairs. The Energy-only category includes the flat rate Street Lighting Energy Service (Closed) rate schedule and the Street Lighting Energy Service Metered rate schedule. Protective lighting service is full service security lighting that is available for residential and commercial customers. The proposed total lighting class increase is 10.0 percent for test year 2016. The higher relative cost increase indicated by the CCOSS for System service was moderated to a proposed increase of 12.0 percent. The corresponding proposed lighting increases are 8.0 percent for Protective lighting and 5.4 percent for the Energy-only lighting category. These relationships were also maintained for proposed plan year 2017 lighting rates.

1	Q.	DO PROPOSED LIGHTING RATES INCLUDE THOSE RECENTLY FILED FOR LIGHT
2		EMITTING DIODE (LED) LIGHTING WITHIN THE OVERHEAD CATEGORY OF
3		THE STREET LIGHTING SYSTEM SERVICE RATE SCHEDULE?
4	Α.	No. The Company only recently made this miscellaneous filing on October
5		15, 2015 and regulatory review and approval are pending. If the LED
6		miscellaneous filing is approved by the Commission at the present rate level
7		and subject to the proposed interim rate adjustment, the Company proposes
8		including LED rates in the compliance filing for this case according to the rate
9		relationships included in the miscellaneous filing.
10		
11		7. Fuel Clause Rider
12	Q.	HAS THE PROPOSED FUEL CLAUSE RIDER BEEN UPDATED FOR THE TEST YEAR
13		2016?
14	Α.	Yes. The Fuel Adjustment Factor section of the Fuel Clause Rider was
15		updated to be consistent with test year 2016 information. The Fuel
16		Adjustment Factor Ratios by Service Category were updated to test year 2016
17		based on corresponding updates to Class Cost Ratios and TOD Ratios. These
18		updates were determined using the method approved by the Commission in
19		previous rate cases. The development of these updates is shown in
20		Exhibit(SVH-1), Schedule 9.
21		
22		The System Base Cost of Energy also was updated to the test year 2016 cost
23		level, as were the resulting base cost of energy figures by service category.
24		
25		E. Development of 2017 and 2018 Rates
26	O.	DO THE 2016 AND 2017 RATES SHARE A COMMON RATE DESIGN?

1	Α.	Yes. Years 2016 and 2017 share a common rate design. The only significant
2		difference between the two years is that energy and demand charges in 2017
3		are proportionally higher to reflect the higher 2017 revenue requirement.
4		
5	Q.	WHAT IS THE COMPANY'S PROPOSAL FOR IMPLEMENTING RATES AT THE 2018
6		PLAN YEAR LEVEL?
7	Α.	We propose to apply an equal percent factor to the present rates in effect at
8		that time. The percent factor would represent the incremental increase in the
9		2018 revenue requirement. The recommended form of this incremental factor
10		is a percent increase applicable to all base rates using the same method that is
11		used for interim rate increases.
12		
13	Q.	How would you implement 2019 and 2020 rates under the five-year
14		MULTI-YEAR RATE PLAN (MYRP) DISCUSSED BY COMPANY WITNESS MR.
15		Aakash H. Chandarana?
16	Α.	The same method the Company proposes for 2018 rates could be used to
17		implement 2019 and 2020 rates under the five-year MYRP, or the rate design
18		for 2019 and 2020 could be part of the settlement process discussed by Mr.
19		Chandarana.
20		
21		IV. CONCLUSION
22		
23	Q.	PLEASE SUMMARIZE YOUR TESTIMONY.
24	Α.	The Company's proposed class revenue apportionment and rate design is
25		reasonable and provides important but moderate movement closer to electric
26		service costs. Better recognition of electric service costs will give customers

- 1 the necessary information to make decisions that minimize system costs and
- 2 make more economically efficient use of energy resources.

- 4 Q. Does this conclude your testimony?
- 5 A. Yes, it does.

Statement of Qualifications and Experience

Steven V. Huso

I graduated from St. Olaf College in 1976 with a Bachelor of Arts degree in Mathematics and Economics. In 1979, I received a Master of Business Administration degree from the University of St. Thomas.

I have been employed by Northern States Power Company in pricing positions since 1979. I began my current position as Pricing Consultant in 2000. I held Administrator positions from 1992 until 2000, including two years from 1993 to 1995 with Northern States Power Company-Wisconsin.

My job responsibilities include rate design, rate-revenue determinations, and cost allocations for the utility operating subsidiaries of Xcel Energy. I have presented several papers and have a published book chapter on electric utility pricing issues. In 1999, I lectured on industrial rate design at Taiwan Power Company headquarters.

I have sponsored rate design testimony in proceedings before state regulatory commissions in Minnesota, North Dakota, South Dakota, Wisconsin, and Colorado.

Minnesota Electric Rate Book - MPUC No. 2 2016 Proposed Tariff Sheets

Sheet No. 1-1, revision 7 *	Sheet No. 5-11.1, revision 8 *
Sheet No. 1-2, revision 9 *	Sheet No. 5-12, revision 7
Sheet No. 1-3, revision 14 *	Sheet No. 5-13, revision 5 *
Sheet No. 1-4, revision 15 *	Sheet No. 5-14, revision 20
Sheet No. 1-5, revision 8 *	Sheet No. 5-15, revision 11 *
Sheet No. 1-6, revision 5 *	Sheet No. 5-21, revision 28
	Sheet No. 5-22, revision 8 *
Sheet No. 2-1, revision 3	Sheet No. 5-23, revision 28
	Sheet No. 5-24, revision 14 *
Sheet No. 3-1, revision 6	Sheet No. 5-24.1, revision 11
Sheet No. 3-1.1, revision 5 *	Sheet No. 5-26, revision 28
Sheet No. 3-2, revision 6 *	Sheet No. 5-27, revision 8 *
Sheet No. 3-2.1, revision 5 *	Sheet No. 5-28, revision 7 *
Sheet No. 3-3, revision 6	Sheet No. 5-28.1, revision 5 *
Sheet No. 3-3.1, revision 5	Sheet No. 5-29, revision 24
Sheet No. 3-4, revision 6	Sheet No. 5-30, revision 15 *
Sheet No. 3-4.1, revision 5 *	Sheet No. 5-31, revision 8 *
Sheet No. 3-5, revision 6	Sheet No. 5-32, revision 6 *
Sheet No. 3-5.1, revision 6 *	Sheet No. 5-32.1, revision 5 *
Sheet No. 3-6, revision 6 *	Sheet No. 5-40, revision 20
Sheet No. 3-6.1, revision 5 *	Sheet No. 5-41, revision 17 *
Sheet No. 3-7, revision 6 *	Sheet No. 5-42, revision 6 *
Sheet No. 3-7.1, revision 4 *	Sheet No. 5-43, revision 6 *
Sheet No. 3-8, revision 6 *	Sheet No. 5-44, revision 15
	Sheet No. 5-45, revision 22
Sheet No. 5-TOC-1, revision 9 *	Sheet No. 5-46, revision 12 *
Sheet No. 5-TOC-2, revision 12 *	Sheet No. 5-47, revision 7 *
Sheet No. 5-1, revision 28	Sheet No. 5-47.1, revision 6 *
Sheet No. 5-1.1, revision 9 *	Sheet No. 5-48, revision 7 *
Sheet No. 5-2, revision 28	Sheet No. 5-49, revision 6 *
Sheet No. 5-3, revision 12 *	Sheet No. 5-50, revision 6 *
Sheet No. 5-4, revision 6 *	Sheet No. 5-64, revision 9
Sheet No. 5-5, revision 16	Sheet No. 5-65, revision 21 *
Sheet No. 5-6, revision 16 *	Sheet No. 5-65.1, revision 5 *
Sheet No. 5-9, revision 27	Sheet No. 5-66, revision 7
Sheet No. 5-10, revision 8 *	Sheet No. 5-67, revision 6 *
Sheet No. 5-10.1, revision 5 *	Sheet No. 5-68, revision 5 *
Sheet No. 5-11, revision 30	Sheet No. 5-71, revision 14

^{* =} No substantive changes to sheet, but included to provide complete tariff.

Page 2 of 12

Minnesota Electric Rate Book - MPUC No. 2 2016 Proposed Tariff Sheets

Sheet No. 5-72, revision 7 *	Sheet No. 5-93.11, revision 4 *
Sheet No. 5-73, revision 6 *	Sheet No. 5-93.12, revision 7*
Sheet No. 5-74, revision 22	Sheet No. 5-93.13, revision 3 *
Sheet No. 5-74.1, revision 10 *	Sheet No. 5-94, revision 11 *
Sheet No. 5-76, revision 21	Sheet No. 5-95, revision 8
Sheet No. 5-77, revision 11 *	Sheet No. 5-96, revision 8 *
Sheet No. 5-78, revision 26	Sheet No. 5-97, revision 8 *
Sheet No. 5-78.1, revision 6 *	Sheet No. 5-98, revision 5 *
Sheet No. 5-80, revision 24	Sheet No. 5-99, revision 8 *
Sheet No. 5-81, revision 14 *	Sheet No. 5-99.1, revision 5 *
Sheet No. 5-82, revision 7 *	Sheet No. 5-100, revision 5 *
Sheet No. 5-83, revision 6 *	Sheet No. 5-101, revision 17
Sheet No. 5-84, revision 6 *	Sheet No. 5-102, revision 13 *
Sheet No. 5-84.1, revision 4 *	Sheet No. 5-103, revision 6 *
Sheet No. 5-85, revision 27	Sheet No. 5-104, revision 7 *
Sheet No. 5-86, revision 7 *	Sheet No. 5-105, revision 7 *
Sheet No. 5-87, revision 28	Sheet No. 5-106, revision 7 *
Sheet No. 5-88, revision 8 *	Sheet No. 5-107, revision 5 *
Sheet No. 5-89, revision 12	Sheet No. 5-108, revision 10
Sheet No. 5-91, revision 25	Sheet No. 5-109, revision 15 *
Sheet No. 5-91.1, revision 14 *	Sheet No. 5-110, revision 8 *
Sheet No. 5-91.2, revision 9 *	Sheet No. 5-111, revision 7 *
Sheet No. 5-91.3, revision 11	Sheet No. 5-112, revision 8 *
Sheet No. 5-92, revision 16	Sheet No. 5-113, revision 8 *
Sheet No. 5-92.1, revision 6	Sheet No. 5-114, revision 7 *
Sheet No. 5-93, revision 8 *	Sheet No. 5-115, revision 11
Sheet No. 5-93.1, revision 12 *	Sheet No. 5-116, revision 8 *
Sheet No. 5-93.2, revision 14 *	Sheet No. 5-116.1, revision 5 *
Sheet No. 5-93.3, revision 10 *	Sheet No. 5-117, revision 3 *
Sheet No. 5-93.4, revision 15 *	Sheet No. 5-118, revision 3 *
Sheet No. 5-93.5, revision 12 *	Sheet No. 5-119, revision 5 *
Sheet No. 5-93.6, revision 4 *	Sheet No. 5-120, revision 5 *
Sheet No. 5-93.7, revision 4 *	Sheet No. 5-121, revision 5 *
Sheet No. 5-93.8, revision 4 *	Sheet No. 5-122, revision 5 *
Sheet No. 5-93.9, revision 4 *	Sheet No. 5-123, revision 5 *
Sheet No. 5-93.10, revision 4 *	Sheet No. 5-124, revision 6 *

^{* =} No substantive changes to sheet, but included to provide complete tariff.

Minnesota Electric Rate Book - MPUC No. 2 2016 Proposed Tariff Sheets

Sheet No. 5-126, revision 11 *

Sheet No. 5-131, revision 7 *

Sheet No. 5-132, revision 6 *

Sheet No. 5-133, revision 6 *

Sheet No. 5-134, revision 7 *

Sheet No. 5-134.1, revision 6 *

Sheet No. 5-135, revision 5 *

Sheet No. 5-136, revision 8 *

Sheet No. 5-136.1, revision 7 *

Sheet No. 5-137, revision 12 *

Sheet No. 5-138, revision 5 *

Sheet No. 5-139, revision 2 *

Sheet No. 5-140, revision 2 *

Sheet No. 5-141, revision 2 *

Sheet No. 5-142, revision 15 *

Sheet No. 5-143, revision 16 *

Sheet No. 5-144, revision 12

Sheet No. 5-145, revision 5 *

Sheet No. 5-146, revision 10 *

Sheet No. 5-147, revision 11 *

^{* =} No substantive changes to sheet, but included to provide complete tariff.

Summary List of 2016 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Contact List	2-1		Updated contact name & title.
Index of Company's	3-1 thru 3-8		Various Service Area Updates.
Service Area	3-1 tillu 3-0		various service Area Opdates.
octvice tirea			
Residential Service	5-1	A00, A01, A03	Rate changes.
Residential Time of Day Service	5-2	A02, A04	Rate changes.
Residential Electric Vehicle Service	5-5	A08	Rate changes.
Energy Controlled Service (Non- Demand Metered)	5-9	A05	Rate changes.
Limited Off Peak Service	5-11	A06	Rate changes.
Limited Off Peak Service	5-12	A06	Rate change.
Automatic Protective Lighting Service	5-14	A07	Rate changes.
Small General Service	5-21	A09, A10, A11, A13	Rate changes.
Small General Time of Day Service	5-23, 5-24.1	A12, A16, A18, A22	Rate changes.
General Service	5-26	A14	Rate changes.
General Time of Day Service	5-29	A15, A17, A19	Rate changes.
Peak Controlled Service	5-40	A23	Rate changes.
Peak Controlled Time of Day Service	5-44, 5-45	A24	Rate changes.
Real Time Pricing Service	5-64, 5-66	A62 (Firm), A63 (Controllable)	Rate changes.
Hiawatha Light Rail Line Tariff	5-71	A29	Rate changes.
Street Lighting System Service	5-74	A30	Rate changes.
Street Lighting Energy Service (Closed)	5-76	A32	Rate changes.

Summary List of 2016 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Street Lighting Energy Service – Metered	5-78	A34	Rate changes.
Street Lighting – City of St. Paul	5-80	A37	Rate changes.
Small Municipal Pumping Service	5-85	A40	Rate changes.
Municipal Pumping Service	5-87	A41	Rate changes.
Fire and Civil Defense Siren Service	5-89	A42	Rate changes.
Fuel Clause Rider	5-91, 5-91.3		 Rate changes. Ratio changes. Administrative Correction: Added "Residential Electric Vehicle (A08)" to Rate Schedules by Service Category
Conservation Improvement Program Adjustment Rider	5-92, 5-92.1		Rate changes.
Low Income Energy Discount Rider	5-95		Added Proposed Senior/Medical Assistance Program Language
Standby Service Rider	5-101		Rate changes.
Supplemental Generation Service Rider	5-108		Rate changes.
Tier 1 Energy Controlled Service Rider	5-115		Rate changes.
Transmission Cost Recovery Rider	5-144		Administrative Correction: Deleted ", and (4) Street Lighting"

Minnesota Electric Rate Book - MPUC No. 2 2017 Proposed Tariff Sheets

2017 Proposed Tariff Sheet Changes (in addition to those Proposed for 2016)

- Sheet No. 5-1, revision 28
- Sheet No. 5-2, revision 28
- Sheet No. 5-5, revision 16
- Sheet No. 5-9, revision 27
- Sheet No. 5-11, revision 30
- Sheet No. 5-12, revision 7
- Sheet No. 5-14, revision 20
- Sheet No. 5-21, revision 28
- Sheet No. 5-23, revision 28
- Sheet No. 5-24.1, revision 11
- Sheet No. 5-26, revision 28
- Sheet No. 5-29, revision 24
- Sheet No. 5-40, revision 20
- Sheet No. 5-44, revision 15
- Sheet No. 5-45, revision 22
- Sheet No. 5-64, revision 9
- Sheet No. 5-66, revision 7
- Sheet No. 5-71, revision 14
- Sheet No. 5-74, revision 22
- Sheet No. 5-76, revision 21
- Sheet No. 5-78, revision 26
- Sheet No. 5-80, revision 24
- Sheet No. 5-85, revision 27
- Sheet No. 5-87, revision 28
- Sheet No. 5-89, revision 12
- Sheet No. 5-91, revision 25
- Sheet No. 5-91.3, revision 11
- Sheet No. 5-92, revision 16
- Sheet No. 5-92.1, revision 6
- Sheet No. 5-95, revision 8
- Sheet No. 5-101, revision 17
- Sheet No. 5-108, revision 10
- Sheet No. 5-115, revision 11
- Sheet No. 5-144, revision 12

Summary List of 2017 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Residential Service	5-1	A00, A01, A03	Rate changes.
Residential Time of Day Service	5-2	A02, A04	Rate changes.
Residential Electric Vehicle Service	5-5	A08	Rate changes.
Energy Controlled Service (Non- Demand Metered)	5-9	A05	Rate changes.
Limited Off Peak Service	5-11	A06	Rate changes.
Limited Off Peak Service	5-12	A06	Rate change.
Automatic Protective Lighting Service	5-14	A07	Rate changes.
Small General Service	5-21	A09, A10, A11, A13	Rate changes.
Small General Time of Day Service	5-23, 5-24.1	A12, A16, A18, A22	Rate changes.
General Service	5-26	A14	Rate changes.
General Time of Day Service	5-29	A15, A17, A19	Rate changes.
Peak Controlled Service	5-40	A23	Rate changes.
Peak Controlled Time of Day Service	5-44, 5-45	A24	Rate changes.
Real Time Pricing Service	5-64, 5-66	A62 (Firm), A63 (Controllable)	Rate changes.
Hiawatha Light Rail Line Tariff	5-71	A29	Rate changes.
Street Lighting System Service	5-74	A30	Rate changes.
Street Lighting Energy Service (Closed)	5-76	A32	Rate changes.
Street Lighting Energy Service – Metered	5-78	A34	Rate changes.
Street Lighting – City of St. Paul	5-80	A37	Rate changes.
Small Municipal Pumping Service	5-85	A40	Rate changes.

Summary List of 2017 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Municipal Pumping Service	5-87	A41	Rate changes.
Fire and Civil Defense Siren Service	5-89	A42	Rate changes.
Fuel Clause Rider	5-91, 5-91.3		 Rate changes. Ratio changes. Administrative Correction: Added "Residential Electric Vehicle (A08)" to Rate Schedules by Service Category
Conservation Improvement Program Adjustment Rider	5-92, 5-92.1		Rate changes.
Low Income Energy Discount Rider	5-95		Added Proposed Senior/Medical Assistance Program Language
Standby Service Rider	5-101		Rate changes.
Supplemental Generation Service Rider	5-108		Rate changes.
Tier 1 Energy Controlled Service Rider	5-115		Rate changes.
Transmission Cost Recovery Rider	5-144		Administrative Correction: Deleted ", and (4) Street Lighting"

Minnesota Electric Rate Book - MPUC No. 2 2018 Proposed Tariff Sheets

2018 Proposed Tariff Sheet Changes (in addition to those Proposed for 2016)

Sheet No. 1-3, revision 14	
Sheet No. 5-TOC-2, revision 12	Sheet No. 5-66, revision 7
Sheet No. 5-1, revision 28	Sheet No. 5-71, revision 14
Sheet No. 5-2, revision 28	Sheet No. 5-74, revision 22
Sheet No. 5-5, revision 16	Sheet No. 5-76, revision 21
Sheet No. 5-9, revision 27	Sheet No. 5-78, revision 26
Sheet No. 5-11, revision 30	Sheet No. 5-80, revision 24
Sheet No. 5-12, revision 7	Sheet No. 5-85, revision 27
Sheet No. 5-14, revision 20	Sheet No. 5-87, revision 28
Sheet No. 5-21, revision 28	Sheet No. 5-89, revision 12
Sheet No. 5-23, revision 28	Sheet No. 5-91, revision 25
Sheet No. 5-24.1, revision 11	Sheet No. 5-91.3, revision 11
Sheet No. 5-26, revision 28	Sheet No. 5-92, revision 16
Sheet No. 5-29, revision 24	Sheet No. 5-92.1, revision 6
Sheet No. 5-40, revision 20	Sheet No. 5-95, revision 8
Sheet No. 5-41, revision 17	Sheet No. 5-101, revision 17
Sheet No. 5-44, revision 15	Sheet No. 5-108, revision 10
Sheet No. 5-45, revision 22	Sheet No. 5-115, revision 11
Sheet No. 5-64, revision 9	Sheet No. 5-144, revision 12
Sheet No. 5-65, revision 21	Sheet No. 5-148, original

Summary List of 2018 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Table of Contents	1-3		Added "General Rate Adjustment
			Surcharge Rider."
Table of Contents	5-TOC-2		Added "General Rate Adjustment
			Surcharge Rider."
Residential Service	5-1	A00, A01, A03	1. Rate changes.
			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Residential Time of	5-2	A02, A04	1. Rate changes.
Day Service			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Residential Electric	5-5	A08	1. Rate changes.
Vehicle Service			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Energy Controlled	5-9	A05	1. Rate changes.
Service (Non-			2. Added General Rate Adjustment
Demand Metered)			Surcharge Rider paragraph.
Limited Off Peak	5-11	A06	1. Rate changes.
Service			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Limited Off Peak	5-12	A06	Rate change.
Service			4. D 1
Automatic Protective	5-14	A07	1. Rate changes.
Lighting Service			2. Added General Rate Adjustment
0 11 0 1	5.04	100 110	Surcharge Rider paragraph.
Small General	5-21	A09, A10,	1. Rate changes.
Service		A11, A13	2. Added General Rate Adjustment
0 11 0 177	T 02 T 04 1	A 10 A 16	Surcharge Rider paragraph.
Small General Time	5-23, 5-24.1	A12, A16,	1. Rate changes.
of Day Service		A18, A22	2. Added General Rate Adjustment
General Service	F 26	Λ14	Surcharge Rider paragraph.
General Service	5-26	A14	1. Rate changes.
			2. Added General Rate Adjustment
General Time of Day	5-29	A15, A17, A19	Surcharge Rider paragraph. 1. Rate changes.
Service	J-47	1113, 1117, 1119	2. Added General Rate Adjustment
Dervice			Surcharge Rider paragraph.
Peak Controlled	5-40, 5-41	A23	1. Rate changes.
Service Service	5 10, 5-71	1140	2. Added General Rate Adjustment
COLVICE			Surcharge Rider paragraph.
Peak Controlled	5-44, 5-45	A24	1. Rate changes.
Time of Day Service			2. Added General Rate Adjustment
I Day Service			Surcharge Rider paragraph.
		l	outeriarge reder paragrapii.

Summary List of 2018 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Real Time Pricing	5-64, 5-65,	A62 (Firm),	1. Rate changes.
Service	5-66	A63	2. Added General Rate Adjustment
		(Controllable)	Surcharge Rider paragraph.
Hiawatha Light Rail	5-71	A29	1. Rate changes.
Line Tariff			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Street Lighting	5-74	A30	1. Rate changes.
System Service			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Street Lighting	5-76	A32	1. Rate changes.
Energy Service			2. Added General Rate Adjustment
(Closed)			Surcharge Rider paragraph.
Street Lighting	5-78	A34	1. Rate changes.
Energy Service –			2. Added General Rate Adjustment
Metered			Surcharge Rider paragraph.
Street Lighting – City	5-80	A37	1. Rate changes.
of St. Paul			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Small Municipal	5-85	A40	1. Rate changes.
Pumping Service			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Municipal Pumping	5-87	A41	1. Rate changes.
Service			2. Added General Rate Adjustment
			Surcharge Rider paragraph.
Fire and Civil	5-89	A42	1. Rate changes.
Defense Siren			2. Added General Rate Adjustment
Service			Surcharge Rider paragraph.
Fuel Clause Rider	5-91, 5-91.3		1. Rate changes.
			2. Ratio changes.
			3. Administrative Correction: Added
			"Residential Electric Vehicle (A08)" to
	5.02.5.02.4		Rate Schedules by Service Category
Conservation	5-92, 5-92.1		Rate changes.
Improvement			
Program Adjustment			
Rider	5-95		Added Droposed Coning/M-Ji-1
Low Income Energy Discount Rider) 3-93 		Added Proposed Senior/Medical
	5 101		Assistance Program Language
Standby Service Rider	5-101		Rate changes.
Supplemental	5-108		Rate changes.
Generation Service			
Rider			

Summary List of 2018 Tariff Changes

<u>Tariff</u>	Sheet No.	Rate Code	<u>Changes</u>
Tier 1 Energy	5-115		Rate changes.
Controlled Service			
Rider			
Transmission Cost	5-144		Administrative Correction: Deleted ",
Recovery Rider			and (4) Street Lighting"
General Rate	5-148		Added New Rider.
Adjustment			
Surcharge Rider			

Northern States Power Company Electric Utility - Minnesota Margin Analysis C&I Demand Customers Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 3 Page 1 of 1

Г	0046	0047	2040	2016-	2017-	2016-
L	2016	2017	2018	2017	2018	2018
Present Bas	se Revenue Incl	uding CCRC				
SCI	796,032	800,685	803,836	4,653	3,151	7,804
LCI	389,255	389,691	392,007	436	2,316	2,752
OPA	5,270	5,207	5,195	-63	-12	-75
Demand	1,190,557	1,195,582	1,201,038	5,026	5,455	10,481
MWH						
SCI	12,599,248	12,672,503	12,722,706	73,255	50,204	123,459
LCI	8,351,402	8,361,801	8,409,141	10,400	47,340	57,739
OPA	62,916	62,139	62,060	-777	-78	-855
Demand	21,013,565	21,096,443	21,193,908	82,877	97,465	180,342
CCRC / MW	Н			3.13000	3.13000	3.13000
CCRC Char	nge = MWH Cha	nge x CCRC				
SCI				229	157	386
LCI				33	148	181
OPA				-2	0	-3
Demand				259	305	564
Present Bas	se Revenue Exc	luding CCRC (Change			
SCI	796,032	800,478	803,618	4,424	2,994	7,418
LCI	389,255	389,551	391,679	403	2,168	2,571
OPA	5,270	5,202	5,190	-61	-12	-73
Demand	1,190,557	1,195,231	1,200,487	4,766	5,150	9,917

Northern States Power Company Electric Utility - Minnesota Test Year Ending December 31, 2016
SALES AND REVENUE BY RATE SCHEDULE Docket No. E002/GR-15-826 Exhibit No. ____(SVH-1) Schedule 4

Page 1 of 3

	<u></u>				Revenues (\$1,000's)							
Service Schedule	Average		MWH Sales		Sum	_	Wir		Ann		Incr	ease
	Customers	Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
<u>Residential</u>												
Residential	1,127,454	3,178,049	5,334,776	8,512,825	413,417	449,219	662,485	717,230	1,075,902	1,166,448	90,547	8.42%
Residential TOD	436	1,517	3,755	5,272	205	222	406	437	611	659	48	7.90%
Load Management	3,420	5,873	34,624	40,497	534	550	2,651	2,694	3,185	3,244	59	1.87%
Res Total	1,131,309	3,185,439	5,373,156	8,558,594	414,156	449,991	665,541	720,361	1,079,697	1,170,351	90,654	8.40%
C&I - Non-Demand												
Small General	74,883	276,570	551,107	827,676	35,771	37,401	64,560	66,760	100,331	104,161	3,830	3.82%
Small General TOD	10,810	29,033	61,806	90,839	3,444	3,692	6,600	7,030	10,043	10,721	678	6.75%
Load Management	192	804	3,861	4,666	77	83	294	311	371	394	23	6.14%
C&I N-D Total	85,885	306,407	616,774	923,181	39,291	41,176	71,454	74,101	110,746	115,277	4,531	4.09%
C&I - Demand												
General	40,037	2,942,238	5,232,208	8,174,446	311,063	328,318	486,919	509,327	797,983	837,646	39,663	4.97%
General TOD	4,054	2,966,679	5,236,980	8,203,660	250,142	264,893	392,947	413,370	643,089	678,263	35,174	5.47%
Light Rail	16	6,840	14,016	20,856	640	681	1,213	1,282	1,854	1,964	110	5.94%
Peak-Controlled	1,587	432,751	834,922	1,267,673	42,344	44,656	75,941	79,879	118,285	124,535	6,250	5.28%
Peak-Controlled TOD	402	976,505	1,829,276	2,805,781	78,841	83,605	137,669	145,540	216,511	229,145	12,634	5.84%
Energy-Controlled	17	160,727	296,779	457,506	10,108	10,811	18,847	20,169	28,955	30,980	2,025	6.99%
Real Time Pricing	2	7,030	13,697	20,727	461	492	901	982	1,362	1,474.0	112	8.23%
C&I Dmd Total	46,116	7,492,770	13,457,879	20,950,649	693,599	733,456	1,114,438	1,170,550	1,808,038	1,904,006	95,968	5.31%
C&I Total	132,000	7,799,177	14,074,653	21,873,830	732,891	774,632	1,185,893	1,244,651	1,918,784	2,019,282	100,499	5.24%
Public Authorities												
Small Mun Pumping	987	2,775	5,015	7,790	377	395	614	639	990	1,034	44	4.42%
Municipal Pumping	1,087	26,360	36,556	62,916	3,192	3,362	4,025	4,193	7,217	7,554	337	4.67%
Siren Service	0	0	0	0	12	12	23	25	35	37	2	5.33%
PA Total	2,073	29,135	41,571	70,706	3,581	3,769	4,662	4,856	8,243	8,625	383	4.64%
<u>Lighting</u>												
System Service	0	17,292	47,190	64,482	5,443	6,105	11,153	12,495	16,596	18,600	2,004	12.08%
Energy	0	9,117	24,880	33,996	782	823	1,705	1,798	2,487	2,621	134	5.38%
Metered Energy	2,249	12,957	35,361	48,318	888	936	2,393	2,522	3,281	3,458	177	5.40%
Protective Lighting	0	8,215	22,610	30,826	1,355	1,466	2,842	3,072	4,197	4,537	340	8.11%
Lighting Total	2,249	47,581	130,040	177,621	8,468	9,330	18,093	19,887	26,561	29,217	2,655	10.00%
Total Retail	1,267,632	11,061,332	19,619,420	30,680,751	1,159,096	1,237,721	1,874,189	1,989,755	3,033,285	3,227,476	194,191	6.40%
Other Rev Increase					0	129	0	259	0	388	388	
Interdept. Increase					0	15	0	19	0	33	33	
Total Revenue	1,267,632	11,061,332	19,619,420	30,680,751	1,159,096	1,237,865	1,874,189	1,990,032	3,033,285	3,227,897	194,612	6.42%
Interdept Present	13	4,087	5,148	9,235	358	358	451	451	809	809	0	
Retail + ID	1,267,645	11,065,418	19,624,567	30,689,986	1,159,453	1,238,223	1,874,640	1,990,483	3,034,093	3,228,706	194,612	6.41%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 4

Page 2 of 3

				1				Revenues	(\$1,000's)			
Service Schedule	Average		MWH Sales		Sum		Wir		Ann		Incre	
	Customers	Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
<u>Residential</u>												
Residential	1,127,454	3,178,049	5,334,776	8,512,825	413,229	458,641	662,170	732,543	1,075,399	1,191,184	115,785	10.77%
Residential TOD	436	1,517	3,755	5,272	205	227	406	447	610	674	63	10.36%
Load Management	3,420	5,873	34,624	40,497	534	566	2,648	2,790	3,182	3,356	174	5.46%
Res Total	1,131,309	3,185,439	5,373,156	8,558,594	413,968	459,434	665,224	735,780	1,079,192	1,195,214	116,022	10.75%
C&I - Non-Demand												
Small General	74,883	276,570	551,107	827,676	35,755	38,065	64,529	67,917	100,284	105,982	5,698	5.68%
Small General TOD	10,810	29,033	61,806	90,839	3,442	3,755	6,596	7,152	10,038	10,907	869	8.65%
Load Management	192	804	3,861	4,666	77	85	294	321	371	406	35	9.48%
C&I N-D Total	85,885	306,407	616,774	923,181	39,274	41,906	71,419	75,390	110,693	117,295	6,602	5.96%
C&I - Demand												
General	40,037	2,942,238	5,232,208	8,174,446	310,906	332,420	486,649	514,895	797,556	847,314	49,758	6.24%
General TOD	4,054	2,966,679	5,236,980	8,203,660	250,037	268,110	392,767	417,915	642,805	686,025	43,220	6.72%
Light Rail	16	6,840	14,016	20,856	640	691	1,213	1,299	1,853	1,989	137	7.39%
Peak-Controlled	1,587	432,751	834,922	1,267,673	42,316	45,266	75,892	80,910	118,208	126,176	7,968	6.74%
Peak-Controlled TOD	402	976,505	1,829,276	2,805,781	78,802	84,683	137,599	147,338	216,401	232,020	15,620	7.22%
Energy-Controlled	17	160,727	296,779	457,506	10,100	10,980	18,832	20,491	28,932	31,471	2,539	8.77%
Real Time Pricing	2	7,030	13,697	20,727	461	499	901	1,014	1,361	1,512.2	151	11.08%
C&I Dmd Total	46,116	7,492,770	13,457,879	20,950,649	693,263	742,647	1,113,853	1,183,861	1,807,116	1,926,508	119,392	6.61%
C&I Total	132,000	7,799,177	14,074,653	21,873,830	732,537	784,553	1,185,272	1,259,251	1,917,809	2,043,803	125,995	6.57%
Public Authorities												
Small Mun Pumping	987	2,775	5,015	7,790	377	402	613	650	990	1,051	61	6.21%
Municipal Pumping	1,087	26,360	36,556	62,916	3,191	3,404	4,022	4,239	7,213	7,643	430	5.96%
Siren Service	0	0	0	0	12	12	23	25	35	37	2	6.67%
PA Total	2,073	29,135	41,571	70,706	3,579	3,818	4,659	4,913	8,238	8,731	494	5.99%
Lighting												
System Service	0	17,292	47,190	64,482	5,443	6,319	11,153	12,923	16,596	19,242	2,646	15.94%
Energy	0	9,117	24,880	33,996	782	849	1,705	1,848	2,487	2,697	210	8.42%
Metered Energy	2,249	12,957	35,361	48,318	888	965	2,393	2,602	3,281	3,567	286	8.72%
Protective Lighting	0	8,215	22,610	30,826	1,355	1,509	2,842	3,157	4,197	4,666	469	11.17%
Lighting Total	2,249	47,581	130,040	177,621	8,468	9,641	18,093	20,531	26,561	30,172	3,611	13.59%
Total Retail	1,267,632	11,061,332	19.619.420	30.680.751	1,158,551	1.257.446	1,873,248	2.020.474	3.031.800	3,277,921	246.121	8.12%
Other Rev Increase	1,201,302	,,	,,	22,000,00	0	167	0	335	0	502	502	51.1270
Interdept. Increase					0	19	0	24	0	43		
•	4 267 620	44 064 333	40 640 400	20 600 754						• • • • • • • • • • • • • • • • • • • •		0.440/
Total Revenue		11,061,332					1,873,248			3,278,466		8.14%
Interdept Present	13	4,087	5,148	9,235	358	358	451	451	808	808	0	
Retail + ID	1,267,645	11,065,418	19,624,567	30,689,986	1,158,909	1,257,991	1,873,699	2,021,284	3,032,608	3,279,274	246,667	8.13%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 4

Page 3 of 3

				1				Revenues	(\$1,000's)			
Service Schedule	Average		MWH Sales		Sum		Wir		Ann		Incre	ease
	Customers	Summer	Winter	Annual	Present	Proposed	Present	Proposed	Present	Proposed	Amount	Percent
<u>Residential</u>												
Residential	1,127,454	3,178,049	5,334,776	8,512,825	413,048	466,032	661,866	744,348	1,074,914	1,210,380	135,466	12.60%
Residential TOD	436	1,517	3,755	5,272	205	231	406	454	610	684	74	12.15%
Load Management	3,420	5,873	34,624	40,497	533	574	2,647	2,827	3,180	3,401	221	6.95%
Res Total	1,131,309	3,185,439	5,373,156	8,558,594	413,786	466,837	664,918	747,628	1,078,704	1,214,465	135,761	12.59%
C&I - Non-Demand												
Small General	74,883	276,570	551,107	827,676	35,740	38,669	64,498	68,976	100,238	107,644	7,406	7.39%
Small General TOD	10,810	29,033	61,806	90,839	3,441	3,814	6,593	7,261	10,033	11,075	1,042	10.38%
Load Management	192	804	3,861	4,666	77	87	294	325	371	412	41	11.05%
C&I N-D Total	85,885	306,407	616,774	923,181	39,257	42,569	71,385	76,562	110,642	119,131	8,489	7.67%
C&I - Demand												
General	40,037	2,942,238	5,232,208	8,174,446	310,755	337,480	486,389	522,348	797,144	859,827	62,684	7.86%
General TOD	4,054	2,966,679	5,236,980	8,203,660	249,937	271,875	392,594	423,447	642,530	695,322	52,792	8.22%
Light Rail	16	6,840	14,016	20,856	640	701	1,212	1,317	1,851	2,018	166	8.99%
Peak-Controlled	1,587	432,751	834,922	1,267,673	42,289	45,937	75,845	82,074	118,134	128,011	9,877	8.36%
Peak-Controlled TOD	402	976,505	1,829,276	2,805,781	78,764	85,836	137,531	149,275	216,295	235,111	18,816	8.70%
Energy-Controlled	17	160,727	296,779	457,506	10,093	11,113	18,818	20,741	28,910	31,853	2,943	10.18%
Real Time Pricing	2	7,030	13,697	20,727	460	505	900	1,027	1,361	1,531.4	171	12.54%
C&I Dmd Total	46,116	7,492,770	13,457,879	20,950,649	692,937	753,446	1,113,288	1,200,228	1,806,225	1,953,674	147,449	8.16%
C&I Total	132,000	7,799,177	14,074,653	21,873,830	732,194	796,015	1,184,673	1,276,790	1,916,867	2,072,805	155,938	8.14%
Public Authorities												
Small Mun Pumping	987	2,775	5,015	7,790	376	408	613	660	990	1,068	79	7.94%
Municipal Pumping	1,087	26,360	36,556	62,916	3,189	3,458	4,020	4,304	7,209	7,762	553	7.67%
Siren Service	0	0	0	0	12	13	23	25	35	38	3	8.83%
PA Total	2,073	29,135	41,571	70,706	3,577	3,879	4,656	4,989	8,233	8,868	635	7.71%
<u>Lighting</u>												
System Service	0	17,292	47,190	64,482	5,443	6,439	11,153	13,163	16,596	19,602	3,006	18.11%
Energy	0	9,117	24,880	33,996	782	862	1,705	1,874	2,487	2,736	249	9.99%
Metered Energy	2,249	12,957	35,361	48,318	888	979	2,393	2,638	3,281	3,617	336	10.25%
Protective Lighting	0	8,215	22,610	30,826	1,355	1,535	2,842	3,211	4,197	4,746	549	13.09%
Lighting Total	2,249	47,581	130,040	177,621	8,468	9,815	18,093	20,887	26,561	30,702	4,140	15.59%
Total Retail	1,267,632	11,061,332	19,619,420	30,680,751	1,158,026	1,276,546	1,872,340	2,050,294	3,030,366	3,326,840	296,474	9.78%
Other Rev Increase					0	205	0	409	0	614	614	
Interdept. Increase					0	20	0	25	0	45	45	
Total Revenue		11,061,332	19,619,420	30,680,751				2,050,728	3,030,366	3,327,499	297,133	9.81%
Interdept Present	13	4,087	5,148	9,235	357	357	450	450	808	808	0	
Retail + ID	1,267,645	11,065,418	19,624,567	30,689,986	1,158,383	1,277,128	1,872,790	2,051,179	3,031,173	3,328,307	297,133	9.80%

Northern States Power Company Electric Utility - Minnesota Test Year Ending December 31, 2016 REVENUE BY RATE CLASS

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 5 Page 1 of 3

		Revenues (\$1,000's)									
	Tota	al	Bas	е	Fu	el	Rid	ler			
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed			
•						Ī					
Residential Regular	1,039,707	1,128,767	786,430	894,550	224,707	224,873	28,570	9,343			
Res Space Heating	41,057	42,701	28,994	31,553	10,692	10,700	1,371	448			
Total Residential	1,080,764	1,171,467	815,423	926,103	235,399	235,573	29,942	9,792			
Small Comm. & Ind.	1,288,007	1,352,547	880,145	972,403	365,528	364,657	42,333	15,487			
Large Comm. & Ind.	633,906	670,157	389,255	437,091	223,025	223,518	21,626	9,547			
Total Comm. & Ind.	1,921,913	2,022,704	1,269,400	1,409,494	588,554	588,175	63,959	25,034			
Street Lighting	22,364	24,680	19,247	21,349	2,948	3,163	169	168			
Public Authorities	8,243	8,625	6,048	6,631	1,922	1,914	272	81			
Total Retail	3,033,285	3,227,476	2,110,119	2,363,577	828,823	828,824	94,342	35,074			
Other Revenues Incr.		388		388							
Interdept Rev Incr		33		55		-1		-21			
Retail + Increases	3,033,285	3,227,897	2,110,119	2,364,020	828,823	828,823	94,342	35,053			
Interdept Present Rev.	809	809	527	527	250	250	32	32			
Retail + Interdept	3,034,093	3,228,706	2,110,646	2,364,548	829,073	829,073	94,374	35,085			

		Revenue Increase									
	Tota	al	Bas	е	Fu	el	Rid	er			
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent			
[0 ==0/	100 101	40 ==0/1		0.0=0/	10.00=	0= 00/			
Residential Regular	89,059	8.57%	108,121	13.75%	166	0.07%	-19,227	-67.3%			
Res Space Heating	1,644	4.00%	2,559	8.83%	7	0.07%	-923	-67.3%			
Total Residential	90,703	8.39%	110,680	13.57%	173	0.07%	-20,150	-67.3%			
Small Comm. & Ind.	64,541	5.01%	92,258	10.48%	-871	-0.24%	-26,846	-63.4%			
Large Comm. & Ind.	36,250	5.72%	47,836	12.29%	492	0.22%	-12,079	-55.9%			
Total Comm. & Ind.	100,791	5.24%	140,094	11.04%	-378	-0.06%	-38,925	-60.9%			
Street Lighting	2,315	10.35%	2,102	10.92%	215	7.28%	-1	-0.6%			
Public Authorities	383	4.64%	583	9.63%	-9	-0.45%	-192	-70.3%			
Total Retail	194,191	6.40%	253,458	12.01%	1	0.00%	-59,268	-62.8%			
Other Revenues Incr.	388		388		0		0				
Interdept Rev Incr	33		55		-1		-21				
Retail + Increases	194,613	6.42%	253,901	12.03%	0	0.00%	-59,289	-62.8%			
Interdept Present Rev.	0	0.00%	0	0.00%	0	0.00%	0	0.0%			
Retail + Interdept	194,613	6.41%	253,901	12.03%	0	0.00%	-59,289	-62.8%			

Northern States Power Company Electric Utility - Minnesota Plan Year Ending December 31, 2017 REVENUE BY RATE CLASS

Docket No. E002/GR-15-826 Exhibit No. ____(SVH-1) Schedule 5 Page 2 of 3

	Revenues (\$1,000's)								
	Tota	al	Bas	е	Fu	el	Rid	ler	
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed	
,		ı.				ı.			
Residential Regular	1,039,225	1,152,515	786,430	918,299	•	224,873	28,088	9,343	
Res Space Heating	41,034	43,845	28,994	32,697	10,692	10,700	1,348	448	
Total Residential	1,080,259	1,196,360	815,423	950,996	235,399	235,573	29,437	9,792	
Small Comm. & Ind.	1,287,334	1,369,080	880,145	988,936	365,528	364,657	41,660	15,487	
Large Comm. & Ind.	633,604	678,242	389,255	445,177	223,025	223,518	21,324	9,547	
Total Comm. & Ind.	1,920,938	2,047,323	1,269,400	1,434,114	588,554	588,175	62,984	25,034	
Street Lighting	22,364	25,506	19,247	22,175	2,948	3,163	169	168	
Public Authorities	8,238	8,731	6,048	6,737	1,922	1,914	268	81	
Total Retail	3,031,800	3,277,921	2,110,119	2,414,022	828,823	828,824	92,857	35,074	
Other Revenues Incr.		502		502					
Interdept Rev Incr		43		64		-1		-20	
Retail + Increases	3,031,800	3,278,466	2,110,119	2,414,589	828,823	828,823	92,857	35,054	
Interdept Present Rev.	808	808	527	527	250	250	31	31	
Retail + Interdept	3,032,608	3,279,274	2,110,646	2,415,116	829,073	829,073	92,888	35,085	

		Revenue Increase									
	Tota	al	Bas	е	Fu	el	Rid	er			
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent			
Decidential Decular	113,290	10.90%	131,869	16.77%	166	0.07%	-18,745	-66.7%			
Residential Regular Res Space Heating	2,811	6.85%	3,704	10.77%	7	0.07%	-10,745	-66.8%			
Total Residential	116,101	10.75%	135,573	16.63%	173	0.07%	-19,645	-66.7%			
Small Comm. & Ind.	81,746	6.35%	108,791	12.36%	-871	-0.24%	-26,174	-62.8%			
Large Comm. & Ind.	44,638	7.05%	55,922	14.37%	492	0.22%	-11,776	-55.2%			
Total Comm. & Ind.	126,385	6.58%	164,713	12.98%	-378	-0.06%	-37,950	-60.3%			
Street Lighting	3,142	14.05%	2,928	15.21%	215	7.28%	-1	-0.6%			
Public Authorities	494	5.99%	689	11.39%	-9	-0.45%	-187	-69.8%			
Total Retail	246,121	8.12%	303,903	14.40%	1	0.00%	-57,783	-62.2%			
Other Revenues Incr.	502		502		0		0				
Interdept Rev Incr	43		64		-1		-20				
Retail + Increases	246,667	8.14%	304,470	14.43%	0	0.00%	-57,803	-62.2%			
Interdept Present Rev.	0	0.00%	0	0.00%	0	0.00%	0	0.0%			
Retail + Interdept	246,667	8.13%	304,470	14.43%	0	0.00%	-57,803	-62.2%			

Northern States Power Company Electric Utility - Minnesota Plan Year Ending December 31, 2018 REVENUE BY RATE CLASS

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 5 Page 3 of 3

		Revenues (\$1,000's)								
	Tota	al	Bas	е	Fu	el	Rid	ler		
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed		
Residential Regular	1,038,760	1,171,124	786,430	936,908	224,707	224,873	27,623	9,343		
Res Space Heating	41,012	44,508	28,994	33,360	10,692	10,700	1,326	448		
Total Residential	1,079,771	1,215,632	815,423	970,268	235,399	235,573	28,949	9,792		
Small Comm. & Ind.	1,286,684	1,389,121	880,145	1,008,977	365,528	364,657	41,011	15,487		
Large Comm. & Ind.	633,312	687,264	389,255	454,199	223,025	223,518	21,032	9,547		
Total Comm. & Ind.	1,919,997	2,076,384	1,269,400	1,463,175	588,554	588,175	62,043	25,034		
Street Lighting	22,364	25,956	19,247	22,625	2,948	3,163	169	168		
Public Authorities	8,233	8,868	6,048	6,874	1,922	1,914	263	81		
Total Retail	3,030,366	3,326,840	2,110,119	2,462,941	828,823	828,824	91,423	35,074		
Other Revenues Incr.		614		614						
Interdept Rev Incr		45		76		-1		-20		
Retail + Increases	3,030,366	3,327,499	2,110,119	2,463,631	828,823	828,823	91,423	35,054		
Interdept Present Rev.	808	808	527	527	250	250	31	31		
Retail + Interdept	3,031,173	3,328,307	2,110,646	2,464,159	829,073	829,073	91,454	35,085		

	Revenue Increase								
	Tota	al	Bas	е	Fu	el	Rid	er	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	
Residential Regular	132,364	12.74%	150,478	19.13%	166	0.07%	-18,279	-66.2%	
Res Space Heating	3,496	8.52%	4,366	15.06%	7	0.07%	•	-66.2%	
Total Residential	135,860	12.58%	154,844	18.99%	173	0.07%	-19,157	-66.2%	
Small Comm. & Ind.	102,436	7.96%	128,831	14.64%	-871	-0.24%	•	-62.2%	
Large Comm. & Ind.	53,951	8.52%	64,944	16.68%	492	0.22%	-11,485	-54.6%	
Total Comm. & Ind.	156,388	8.15%	193,775	15.27%	-378	-0.06%	-37,009	-59.7%	
Street Lighting	3,591	16.06%	3,378	17.55%	215	7.28%	-1	-0.6%	
Public Authorities	635	7.71%	825	13.65%	-9	-0.45%	-182	-69.3%	
Total Retail	296,474	9.78%	352,822	16.72%	1	0.00%	-56,349	-61.6%	
Other Revenues Incr.	614		614		0		0		
Interdept Rev Incr	45		76		-1		-20		
Retail + Increases	297,133	9.81%	353,512	16.75%	0	0.00%	-56,369	-61.7%	
Interdept Present Rev.	0	0.00%	0	0.00%	0	0.00%	0	0.0%	
Retail + Interdept	297,133	9.80%	353,512	16.75%	0	0.00%	-56,369	-61.6%	

Fuel Cost - Retail	I	Present		Proposed			
	Summer	Winter	Annual	Summer	Winter	Annual	
Retail	2.805 ¢	2.663¢	2.714¢	2.805 ¢	2.663¢	2.714¢	
Residential	2.857 ¢	2.712¢	2.764 ¢	2.855 ¢	2.710¢	2.762¢	
C&I - Non-Demand	2.943¢	2.794¢	2.848 ¢	2.891 ¢	2.744¢	2.797¢	
C&I-Dmd - Non-TOD			2.722 ¢			2.710 ¢	
C&I-Dmd -TOD On-Peak			3.455¢			3.389¢	
C&I-Dmd -TOD Off-Peak			2.168¢			2.216¢	
Lighting			2.021 ¢			2.165 ¢	

		Present	Proposed	Present	Proposed
Residential (A01, A03)		Base F	Base Rates		+ Fuel
Customer / Mo.	Overhead	\$8.00	\$10.00	\$8.00	\$10.00
	Overhead - Electric Sp Ht	\$10.00	\$12.00	\$10.00	\$12.00
	Underground	\$10.00	\$12.00	\$10.00	\$12.00
	Underground - Electric Sp Ht	\$12.00	\$14.00	\$12.00	\$14.00
Energy /kWh	Summer	9.395¢	10.548¢	12.252¢	13.403 ¢
	Winter	8.040 ¢	8.998¢	10.752¢	11.708 ¢
	Winter - Electric Space Heat	5.819¢	6.105¢	8.531 ¢	8.815 ¢

Residential Time	e of Day (A02, A04)	Base Rates		Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$12.00	\$10.00	\$12.00
	Underground	\$12.00	\$14.00	\$12.00	\$14.00
	Overhead - Electric Sp Ht	\$12.00	\$14.00	\$12.00	\$14.00
	Underground - Electric Sp Ht	\$14.00	\$16.00	\$14.00	\$16.00
Energy / kWh	On-Peak Summer	20.077¢	21.019¢	22.934¢	23.874¢
	On-Peak Winter	16.454¢	16.891¢	19.166¢	19.601 ¢
	On-Peak Winter -Elec. Sp Ht	10.912¢	9.465¢	13.624¢	12.175¢
	Off-Peak Summer	3.015¢	4.252 ¢	5.872¢	7.107¢
	Off-Peak Winter	3.015¢	4.252 ¢	5.727¢	6.962¢

Residential Elec	Residential Electric Vehicle (A08)		ates	Rates + Fuel	
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50
Energy / kWh	On-Peak Summer	17.564 ¢	21.019¢	20.421¢	23.874 ¢
	On-Peak Winter	14.170¢	16.891¢	16.882¢	19.601¢
	Off-Peak Summer	3.300 ¢	4.252 ¢	6.157¢	7.107¢
	Off-Peak Winter	3.300 ¢	4.252 ¢	6.012¢	6.962¢

Energy-Control	Energy-Controlled Non-Demand (A05)		ates	Rates + Fuel	
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50
Energy / kWh	Standard Resid.	4.2830 ¢	4.5300¢	7.047 ¢	7.292¢
	Standard Comm.	4.2830 ¢	4.5300¢	7.131 ¢	7.327¢
	Optional Resid Summer	9.395¢	10.548¢	12.252¢	13.403¢
	Optional Comm Summer	8.787¢	9.415¢	11.730¢	12.306¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 2 of 14

			Present	Proposed	Present	Proposed
Limited Off-Peal	x (A06)		Base Rates		Rates + Fuel	
Customer / Mo.	Residential		\$4.95	\$5.50	\$4.95	\$5.50
	Commercial	Sec. 1 Phase	\$10.00	\$11.00	\$10.00	\$11.00
	Commercial	Sec. 3 Phase	\$13.60	\$15.00	\$13.60	\$15.00
	Commercial	Higher Voltages	\$60.00	\$65.00	\$60.00	\$65.00
Energy / kWh	Residential	On-Peak	30.800¢	34.000¢	33.564¢	36.762 ¢
	Commercial	On-Peak	30.800¢	34.000¢	33.648¢	36.797¢
	Residential	Secondary	2.642 ¢	3.652¢	5.406¢	6.414 ¢
	Commercial	Secondary	2.642 ¢	3.652¢	5.490 ¢	6.449¢
	Commercial	Primary	2.549¢	3.545¢	5.397 ¢	6.342 ¢
	Commercial	T Trnsfrmd	2.368¢	3.380¢	5.216¢	6.177¢
	Commercial	Transmision	2.358¢	3.370¢	5.206 ¢	6.166 ¢

Small General (A09, A10, A11, A13)		Base Ra	ates	Rates + Fuel	
Customer / Mo.	Metered (A10)	\$10.00	\$12.00	\$10.00	\$12.00
	Unmetered (A09)	\$8.00	\$10.00	\$8.00	\$10.00
Demand / kW	Direct Current	\$3.48	\$3.83	\$3.48	\$3.83
Energy /kWh	Summer	8.787 ¢	9.415¢	11.730¢	12.306¢
	Winter	7.432 ¢	7.866¢	10.226¢	10.610¢

Small Municipal Pumping (A40)		Base Ra	ates	Rates + Fuel	
Customer / Mo.	Overhead	\$10.00	\$12.00	\$10.00	\$12.00
Energy /kWh	Summer	8.787 ¢	9.415¢	11.730¢	12.306¢
	Winter	7.432 ¢	7.866¢	10.226¢	10.610¢

Small General TOD (A12, A16, A18, A22)		Base Rates		Rates + Fuel	
Customer / Mo.	TOD Metered (A12)	\$12.00	\$14.00	\$12.00	\$14.00
	KWH Metered (A16)	\$10.00	\$12.00	\$10.00	\$12.00
	Unmetered (A18)	\$8.00	\$10.00	\$8.00	\$10.00
	Low Wattage <100W (A22)	\$0.28	\$0.30	\$0.28	\$0.30
	Low Wattage <400W (A22)	\$1.20	\$1.28	\$1.20	\$1.28
Energy / kWh	On-Peak Summer	15.123¢	15.124¢	18.066¢	18.015¢
	On-Peak Winter	12.280¢	11.862¢	15.074¢	14.606¢
	Off-Peak Summer	3.015¢	4.252 ¢	5.958¢	7.143¢
	Off-Peak Winter	3.015¢	4.252 ¢	5.809¢	6.996¢
	Constant Use - Summer	7.253¢	8.057¢	10.196¢	10.948¢
	Constant Use - Winter	6.258¢	6.916¢	9.052¢	9.660¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 3 of 14

		Present	Proposed	Present	Proposed
Demand-Metered Voltage Discounts		Base F	Base Rates		+ Fuel
Voltage Discount / kWh	Primary	0.093¢	r	0.093¢	r
	Transmission Transformed	0.274¢	•	0.274¢	
	Transmision	0.284 ¢	0.282¢	0.284 ¢	0.282¢
Voltage Discount / kW	Primary	\$0.90	\$0.80	\$0.90	\$0.80
	Transmission Transformed	\$1.60	\$1.55	\$1.60	\$1.55
	Transmision	\$2.40	\$2.35	\$2.40	\$2.35

General (A14)		Base R	Base Rates		Rates + Fuel	
Customer / Mo.		\$25.75	\$25.76	\$25.75	\$25.76	
Demand / kW	Summer	\$14.07	\$15.52	\$14.07	\$15.52	
	Winter	\$9.96	\$10.92	\$9.96	\$10.92	
Energy / kWh		3.201 ¢	3.564¢	5.923¢	6.274¢	
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560¢	

Municipal Pumping (A41)		Base Ra	Base Rates		Rates + Fuel	
Customer / Mo.		\$25.75	\$25.76	\$25.75	\$25.76	
Demand / kW	Summer Winter	\$14.07 \$9.96	\$15.52 \$10.92	\$14.07 \$9.96	\$15.52 \$10.92	
Energy / kWh	Willicei	3.201 ¢	3.564 ¢	5.923 ¢	6.274 ¢	
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560¢	

General Time of Day (A15)		Base Ra	Base Rates		Rates + Fuel	
Customer / Mo.	Standard A15)	\$29.75	\$29.76	\$29.75	\$29.76	
	kWh Metered (A17)	\$25.75	\$25.76	\$25.75	\$25.76	
	Unmetered (A19)	\$21.75	\$21.76	\$21.75	\$21.76	
On-Peak Demand / kW	Summer	\$14.07	\$15.52	\$14.07	\$15.52	
	Winter	\$9.96	\$10.92	\$9.96	\$10.92	
Off-Peak Demand / kW		\$2.40	\$2.35	\$2.40	\$2.35	
Energy / kWh	On-Peak	4.482 ¢	5.079¢	7.937 ¢	8.468¢	
	Off-Peak	2.233 ¢	2.449¢	4.401 ¢	4.665 ¢	
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560¢	

Hiawatha Light Rail Line (A29)		Base R	Base Rates		Fuel
Customer / Mo.		\$100.00	\$100.00	\$100.00	\$100.00
Generation Demand / kW	Summer	\$8.93	\$9.18	\$8.93	\$9.18
	Winter	\$4.82	\$4.58	\$4.82	\$4.58
Transmission & Distributio	n Demand / kW	\$4.24	\$5.54	\$4.24	\$5.54
Off-Peak Demand / kW	Primary	\$1.50	\$1.55	\$1.50	\$1.55
Energy / kWh	On-Peak Primary	4.389 ¢	4.972¢	7.844¢	8.361 ¢
	Off-Peak Primary	2.140 ¢	2.342¢	4.308¢	4.558¢
Energy Credit / kWh		-1.200 ¢	-1.340¢	-1.200¢	-1.340 ¢

Docket No. E00	02/GR-15-826
Exhibit No	(SVH-1)
	Schedule 6
	Page 4 of 14

		Present	Proposed	Present	Proposed
Peak-Controlled (A	.23)	Base F	Base Rates		+ Fuel
Customer / Mo.		\$55.00	\$55.00	\$55.00	\$55.00
Firm Demand / kW	Summer	\$14.07	\$15.52	\$14.07	\$15.52
	Winter	\$9.96	\$10.92	\$9.96	\$10.92
Control Demand / kW	Tier 2 - Level A	\$8.21	\$9.31	\$8.21	\$9.31
	Tier 2 - Level B	\$7.40	\$8.44	\$7.40	\$8.44
	Tier 2 - Level C	\$6.90	\$7.93	\$6.90	\$7.93
	Tier 1 - Level B	\$6.70	\$7.73	\$6.70	\$7.73
	Tier 1 - Level C	\$6.13	\$7.15	\$6.13	\$7.15
	Tier 1 - Short Notice	\$5.63	\$6.65	\$5.63	\$6.65
Energy / kWh		3.201 ¢	3.564¢	5.923¢	6.274 ¢
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560 ¢

Peak-Controlled TOD (A24)		Base R	Base Rates		Fuel
Customer / Mo.		\$55.00	\$55.00	\$55.00	\$55.00
On-Peak Demand / kW	Summer	\$14.07	\$15.52	\$14.07	\$15.52
	Winter	\$9.96	\$10.92	\$9.96	\$10.92
Control Demand / kW	Tier 2 - Level A	\$8.21	\$9.31	\$8.21	\$9.31
	Tier 2 - Level B	\$7.40	\$8.44	\$7.40	\$8.44
	Tier 2 - Level C	\$6.90	\$7.93	\$6.90	\$7.93
	Tier 1 - Level B	\$6.70	\$7.73	\$6.70	\$7.73
	Tier 1 - Level C	\$6.13	\$7.15	\$6.13	\$7.15
	Tier 1 - Short Notice	\$5.63	\$6.65	\$5.63	\$6.65
Off-Peak Demand / kW		\$2.40	\$2.35	\$2.40	\$2.35
Energy / kWh	On-Peak	4.482 ¢	5.079¢	7.937 ¢	8.468¢
	Off-Peak	2.233 ¢	2.449¢	4.401 ¢	4.665 ¢
Energy Credit / kWh		-1.4000 ¢	-1.5600¢	-1.4000¢	-1.5600¢

Tier 1 Energy-Controlled Rider (A27)		Base Ra	Base Rates		Fuel
Customer / Mo.		\$55.00	\$55.00	\$55.00	\$55.00
On-Peak Demand / kW	Summer Winter	\$14.07 \$9.96	\$15.52 \$10.92	\$14.07 \$9.96	\$15.52 \$10.92
Control Demand / kW	Tier 1 - Level B Tier 1 - Level C	\$6.70 \$6.13	\$7.73 \$7.15	\$6.70 \$6.13	\$7.73 \$7.15
Off-Peak Demand / kW	Tier 1 - Short Notice	\$5.63 \$2.40	\$6.65 \$2.35	\$5.63 \$2.40	\$6.65 \$2.35
Energy / kWh	Firm On-Peak Firm Off-Peak	4.482 ¢ 2.233 ¢	5.079 ¢ 2.449 ¢	7.937 ¢ 4.401 ¢	8.468 ¢ 4.665 ¢
	Controllable On-Peak Controllable Off-Peak	4.261 ¢ 2.178 ¢	4.863 ¢ 2.388 ¢	7.716 ¢ 4.346 ¢	8.252 ¢ 4.604 ¢
Energy Credit / kWh	Control Period Energy	9.000 ¢ -1.400 ¢	9.000 ¢ -1.560 ¢	12.455 ¢ -1.400 ¢	12.389 ¢ -1.560 ¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 5 of 14

-		Present	Proposed	Present	Proposed
Real-Time Pricing (A	163)	Base F	Rates	Rates	+ Fuel
Customer /Month		\$300.00	\$300.00	\$300.00	\$300.00
Contract Demand /kW		\$9.06	\$10.35	\$9.06	\$10.35
Distribution Demand /kW	Secondary	\$2.07	\$2.07	\$2.07	\$2.07
	Primary	\$1.07	\$1.07	\$1.07	\$1.07
	Transmission Transformed	\$0.46	\$0.46	\$0.46	\$0.46
Limited Energy	Standard	17.600 ¢	21.000¢	17.600¢	21.000 ¢
Surcharge /kWh	Control Level A	12.400 ¢	14.100¢	12.400¢	14.100 ¢
	Control Level B	8.800 ¢	10.000¢	8.800 ¢	10.000 ¢
	Control Level C	7.000 ¢	8.000¢	7.000 ¢	8.000 ¢
Energy Credit /kWh		-1.200 ¢	-1.200 ¢	-1.200 ¢	-1.200 ¢

Fire & Civil Defense Siren (A42)	Base Rat	Base Rates		Fuel
HP Capacity / Mo.	\$0.75	\$0.79	\$0.75	\$0.79
Min Charge / Mo.	\$3.61	\$3.79	\$3.61	\$3.79

			Present	Proposed
Standby Service Ric	ler			
Supplemental Gene	ration Service	Rider		
Customer / Mo.			\$25.75	\$25.76
Demand / Contract kW	Unscheduled	Secondary	\$3.47	\$3.56
	Maintenance	Primary	\$2.57	\$2.76
		Tran Transformed	\$1.87	\$2.01
		Transmission	\$1.07	\$1.21
	Scheduled	Secondary	\$3.37	\$3.46
	Maintenance	Primary	\$2.47	\$2.66
	and	Tran Transformed	\$1.77	\$1.91
	Supplemental	Transmission	\$0.97	\$1.11
	Non-Firm	Secondary	\$2.40	\$2.35
		Primary	\$1.50	\$1.55
		Tran Transformed	\$0.80	\$0.80
		Transmission	\$0.00	\$0.00

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 6 of 14

		Present	Proposed	Present	Proposed
Automatic Protective I	Automatic Protective Lighting (A07)		Base Rates		+ Fuel
Area	100 W HPSodium	\$7.34	\$7.63	\$8.16	\$8.50
	175 W Mercury	\$7.34	\$7.63	\$8.75	\$9.20
	250 W HPSodium	\$11.64	\$12.16	\$13.78	\$14.45
	400 W Mercury	\$11.64	\$12.16	\$14.84	\$15.78
Directional	250 W HPSodium	\$12.62	\$14.48	\$14.76	\$16.77
	400 W HPSodium	\$16.12	\$18.10	\$19.48	\$21.70
	1000 W Mercury	\$25.52	\$28.05	\$33.19	\$36.28

Street Lighting System (A30)		Base R	ates	Rates +	Fuel
Overhead	70 W HPSodium	\$8.95	\$9.91	\$9.51	\$10.52
	100 W HPSodium	\$9.44	\$10.48	\$10.26	\$11.35
	150 W HPSodium	\$10.15	\$11.27	\$11.34	\$12.55
	200 W HPSodium	\$11.89	\$13.28	\$13.54	\$15.05
	250 W HPSodium	\$12.78	\$14.30	\$14.92	\$16.59
	400 W HPSodium	\$15.50	\$17.35	\$18.86	\$20.95
	175 W Metal Halide	\$13.86	\$15.43	\$15.27	\$16.95
Underground	70 W HPSodium	\$17.67	\$20.30	\$18.23	\$20.91
	100 W HPSodium	\$18.16	\$20.87	\$18.98	\$21.74
	150 W HPSodium	\$18.87	\$21.66	\$20.06	\$22.94
	250 W HPSodium	\$21.29	\$24.22	\$23.43	\$26.51
	400 W HPSodium	\$23.72	\$26.97	\$27.08	\$30.57
	175 W Metal Halide	\$25.51	\$28.88	\$26.92	\$30.40
Decorative UG	100 W HPSodium	\$28.16	\$33.10	\$28.98	\$33.97
	150 W HPSodium	\$29.25	\$34.29	\$30.44	\$35.57
	250 W HPSodium	\$31.11	\$36.40	\$33.25	\$38.69
	400 W HPSodium	\$33.36	\$38.96	\$36.72	\$42.56
	175 W Metal Halide	\$33.36	\$38.96	\$34.77	\$40.48
Purchase Option	70 W HPSodium	\$5.50	\$6.15	\$6.06	\$6.76
	100 W HPSodium	\$6.14	\$6.88	\$6.96	\$7.75
	150 W HPSodium	\$6.94	\$7.76	\$8.13	\$9.04
	250 W HPSodium	\$8.83	\$9.91	\$10.97	\$12.20
	400 W HPSodium	\$11.38	\$12.77	\$14.74	\$16.37
	175 W Metal Halide	\$12.47	\$13.96	\$13.88	\$15.48

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 7 of 14

	Present	Proposed	Present	Proposed
Street Lighting Energy (A32)	Base I	Base Rates		+ Fuel
100 W Mercury	\$2.37	\$2.48	\$3.25	\$3.43
175 W Mercury	\$3.53	\$3.70	\$4.94	\$5.21
250 W Mercury	\$4.78	\$5.01	\$6.77	\$7.14
400 W Mercury	\$7.45	\$7.81	\$10.65	\$11.24
700 W Mercury	\$12.39	\$12.98	\$17.85	\$18.83
1000 W Mercury	\$17.24	\$18.06	\$24.91	\$26.29
1F72HO Fluorescent	\$3.61	\$3.61	\$4.52	\$4.58
50 W HPSodium	\$1.32	\$1.38	\$1.72	\$1.81
70 W HPSodium	\$1.67	\$1.75	\$2.23	\$2.35
100 W HPSodium	\$2.22	\$2.33	\$3.04	\$3.20
150 W HPSodium	\$3.04	\$3.19	\$4.23	\$4.46
200 W HPSodium	\$4.05	\$4.24	\$5.70	\$6.01
250 W HPSodium	\$5.12	\$5.36	\$7.26	\$7.65
400 W HPSodium	\$7.79	\$8.16	\$11.15	\$11.76
750 W HPSodium	\$13.37	\$14.01	\$19.27	\$20.34

Street Lighting Energy - Metered (A34)	Base Rates		Rates + Fuel	
Customer / Mo.	\$4.75	\$5.00	\$4.75	\$5.00
Energy Charge per kWh	4.402 ¢	4.609¢	6.423¢	6.774¢

Street Lighting Energy - City of St. Paul (A37)	Base Ra	Base Rates		Fuel
100 W HPSodium	\$5.35	\$5.72	\$6.17	\$6.59
150 W HPSodium	\$6.07	\$6.41	\$7.26	\$7.69
250 W HPSodium	\$8.78	\$8.98	\$10.92	\$11.27

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 8 of 14

Fuel Cost - Retail	Present			Proposed		
	Summer	Winter	Annual	Summer	Winter	Annual
Retail	2.805 ¢	2.663¢	2.714¢	2.805 ¢	2.663¢	2.714¢
Residential	2.857 ¢	2.712¢	2.764 ¢	2.855 ¢	2.710¢	2.762¢
C&I - Non-Demand	2.943¢	2.794¢	2.848 ¢	2.891 ¢	2.744¢	2.797¢
C&I-Dmd - Non-TOD			2.722 ¢			2.710 ¢
C&I-Dmd -TOD On-Peak			3.455¢			3.389¢
C&I-Dmd -TOD Off-Peak			2.168¢			2.216¢
Lighting			2.021 ¢			2.165 ¢

		Present	Proposed	Present	Proposed
Residential (A01, A03)		Base F	Base Rates		+ Fuel
Customer / Mo.	Overhead	\$8.00	\$10.00	\$8.00	\$10.00
	Overhead - Electric Sp Ht	\$10.00	\$12.00	\$10.00	\$12.00
	Underground	\$10.00	\$12.00	\$10.00	\$12.00
	Underground - Electric Sp Ht	\$12.00	\$14.00	\$12.00	\$14.00
Energy /kWh	Summer	9.395¢	10.865¢	12.252¢	13.720 ¢
	Winter	8.040 ¢	9.285¢	10.752¢	11.995¢
	Winter - Electric Space Heat	5.819¢	6.394¢	8.531 ¢	9.104 ¢

Residential Time	e of Day (A02, A04)	Base R	ates	Rates +	Fuel
Customer / Mo.	Overhead	\$10.00	\$12.00	\$10.00	\$12.00
	Underground	\$12.00	\$14.00	\$12.00	\$14.00
	Overhead - Electric Sp Ht	\$12.00	\$14.00	\$12.00	\$14.00
	Underground - Electric Sp Ht	\$14.00	\$16.00	\$14.00	\$16.00
Energy / kWh	On-Peak Summer	20.077¢	21.583¢	22.934 ¢	24.438¢
	On-Peak Winter	16.454¢	17.376¢	19.166¢	20.086¢
	On-Peak Winter -Elec. Sp Ht	10.912¢	9.973¢	13.624¢	12.683¢
	Off-Peak Summer	3.015¢	4.420¢	5.872¢	7.275¢
	Off-Peak Winter	3.015¢	4.420 ¢	5.727 ¢	7.130 ¢

Residential Elec	tric Vehicle (A08)	Base R	Base Rates		Rates + Fuel	
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50	
Energy / kWh	On-Peak Summer	17.564 ¢	21.583¢	20.421¢	24.438¢	
	On-Peak Winter	14.170¢	17.376¢	16.882¢	20.086¢	
	Off-Peak Summer	3.300 ¢	4.420 ¢	6.157¢	7.275¢	
	Off-Peak Winter	3.300 ¢	4.420 ¢	6.012¢	7.130 ¢	

Energy-Control	led Non-Demand (A05)	Base Rates		Rates +	Fuel
Customer / Mo.		\$4.95	\$5.50	\$4.95	\$5.50
Energy / kWh	Standard Resid.	4.2830 ¢	4.8150¢	7.047 ¢	7.577¢
	Standard Comm.	4.2830¢	4.8150¢	7.131 ¢	7.612¢
	Optional Resid Summer	9.395¢	10.865¢	12.252¢	13.720¢
	Optional Comm Summer	8.787¢	9.655¢	11.730¢	12.546¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 9 of 14

			Present	Proposed	Present	Proposed
Limited Off-Peak (A06)		Base F	Base Rates		+ Fuel	
Customer / Mo.	Residential		\$4.95	\$5.50	\$4.95	\$5.50
	Commercial	Sec. 1 Phase	\$10.00	\$11.00	\$10.00	\$11.00
	Commercial	Sec. 3 Phase	\$13.60	\$15.00	\$13.60	\$15.00
	Commercial	Higher Voltages	\$60.00	\$65.00	\$60.00	\$65.00
Energy / kWh	Residential	On-Peak	30.800¢	36.000¢	33.564¢	38.762¢
	Commercial	On-Peak	30.800¢	36.000¢	33.648¢	38.797¢
	Residential	Secondary	2.642 ¢	3.760¢	5.406 ¢	6.522 ¢
	Commercial	Secondary	2.642 ¢	3.760¢	5.490 ¢	6.557¢
	Commercial	Primary	2.549¢	3.652¢	5.397¢	6.449¢
	Commercial	T Trnsfrmd	2.368¢	3.486¢	5.216¢	6.282¢
	Commercial	Transmision	2.358¢	3.475¢	5.206 ¢	6.272 ¢

Small General (A09, A10, A11, A13)		Base Ra	Base Rates		Fuel
Customer / Mo.	Metered (A10)	\$10.00	\$12.00	\$10.00	\$12.00
	Unmetered (A09)	\$8.00	\$10.00	\$8.00	\$10.00
Demand / kW	Direct Current	\$3.48	\$3.89	\$3.48	\$3.89
Energy /kWh	Summer	8.787 ¢	9.655¢	11.730¢	12.546¢
	Winter	7.432 ¢	8.076¢	10.226¢	10.820¢

Small Municipal Pumping (A40)		Base Ra	Base Rates		Fuel
Customer / Mo.	Overhead	\$10.00	\$12.00	\$10.00	\$12.00
Energy /kWh	Summer	8.787 ¢	9.655¢	11.730¢	12.546¢
	Winter	7.432 ¢	8.076¢	10.226¢	10.820¢

Small General To	OD (A12, A16, A18, A22)	Base R	ates	Rates +	Fuel
Customer / Mo.	TOD Metered (A12)	\$12.00	\$14.00	\$12.00	\$14.00
	KWH Metered (A16)	\$10.00	\$12.00	\$10.00	\$12.00
	Unmetered (A18)	\$8.00	\$10.00	\$8.00	\$10.00
	Low Wattage <100W (A22)	\$0.28	\$0.30	\$0.28	\$0.30
	Low Wattage <400W (A22)	\$1.20	\$1.28	\$1.20	\$1.28
Energy / kWh	On-Peak Summer	15.123¢	15.443¢	18.066 ¢	18.334¢
	On-Peak Winter	12.280 ¢	12.118¢	15.074¢	14.862¢
	Off-Peak Summer	3.015 ¢	4.420 ¢	5.958¢	7.311 ¢
	Off-Peak Winter	3.015 ¢	4.420 ¢	5.809¢	7.164¢
	Constant Use - Summer	7.253 ¢	8.278¢	10.196¢	11.169¢
	Constant Use - Winter	6.258¢	7.114¢	9.052 ¢	9.858¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 10 of 14

		Present	Proposed	Present	Proposed
Demand-Metered Voltage Discounts		Base I	Rates	Rates	+ Fuel
Voltage Discount / kWh	Primary	0.093 ¢	0.108¢	0.093¢	0.108¢
	Transmission Transformed	0.274 ¢	0.275¢	0.274¢	0.275¢
	Transmision	0.284 ¢	0.285¢	0.284 ¢	0.285¢
Voltage Discount / kW	Primary	\$0.90	\$0.80	\$0.90	\$0.80
	Transmission Transformed	\$1.60	\$1.55	\$1.60	\$1.55
	Transmision	\$2.40	\$2.35	\$2.40	\$2.35

General (A14)		Base Ra	Base Rates		Rates + Fuel	
Customer / Mo.		\$25.75	\$25.78	\$25.75	\$25.78	
Demand / kW	Summer Winter	\$14.07 \$9.96	\$15.79 \$11.09	\$14.07 \$9.96	\$15.79 \$11.09	
Energy / kWh	w mei	3.201 ¢	3.619¢	5.923 ¢	6.329 ¢	
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560¢	

Municipal Pumping (A41)		Base Ra	Base Rates		Fuel
Customer / Mo.		\$25.75	\$25.78	\$25.75	\$25.78
Demand / kW	Summer	\$14.07	\$15.79	\$14.07	\$15.79
	Winter	\$9.96	\$11.09	\$9.96	\$11.09
Energy / kWh		3.201 ¢	3.619¢	5.923¢	6.329¢
Energy Credit / kWh	1	-1.400 ¢	-1.560¢	-1.400 ¢	-1.560¢

General Time of Day (A15)		Base Ra	Base Rates		Fuel
Customer / Mo.	Standard A15)	\$29.75	\$29.78	\$29.75	\$29.78
	kWh Metered (A17)	\$25.75	\$25.78	\$25.75	\$25.78
	Unmetered (A19)	\$21.75	\$21.78	\$21.75	\$21.78
On-Peak Demand / kW	Summer	\$14.07	\$15.79	\$14.07	\$15.79
	Winter	\$9.96	\$11.09	\$9.96	\$11.09
Off-Peak Demand / kW		\$2.40	\$2.35	\$2.40	\$2.35
Energy / kWh	On-Peak	4.482 ¢	5.158¢	7.937 ¢	8.547 ¢
	Off-Peak	2.233 ¢	2.487 ¢	4.401 ¢	4.703¢
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560¢

Hiawatha Light Rail Line (A29)		Base R	Base Rates		Fuel
Customer / Mo.		\$100.00	\$100.00	\$100.00	\$100.00
Generation Demand / kW	Summer	\$8.93	\$9.13	\$8.93	\$9.13
	Winter	\$4.82	\$4.43	\$4.82	\$4.43
Transmission & Distributio	n Demand / kW	\$4.24	\$5.86	\$4.24	\$5.86
Off-Peak Demand / kW	Primary	\$1.50	\$1.55	\$1.50	\$1.55
Energy / kWh	On-Peak Primary	4.389 ¢	5.050¢	7.844¢	8.439¢
	Off-Peak Primary	2.140 ¢	2.379¢	4.308¢	4.595¢
Energy Credit / kWh		-1.200 ¢	-1.340¢	-1.200¢	-1.340¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 11 of 14

		Present	Proposed	Present	Proposed
Peak-Controlled (A	.23)	Base F	Base Rates		+ Fuel
Customer / Mo.		\$55.00	\$55.00	\$55.00	\$55.00
Firm Demand / kW	Summer	\$14.07	\$15.79	\$14.07	\$15.79
	Winter	\$9.96	\$11.09	\$9.96	\$11.09
Control Demand / kW	Tier 2 - Level A	\$8.21	\$9.52	\$8.21	\$9.52
	Tier 2 - Level B	\$7.40	\$8.65	\$7.40	\$8.65
	Tier 2 - Level C	\$6.90	\$8.14	\$6.90	\$8.14
	Tier 1 - Level B	\$6.70	\$7.94	\$6.70	\$7.94
	Tier 1 - Level C	\$6.13	\$7.36	\$6.13	\$7.36
	Tier 1 - Short Notice	\$5.63	\$6.86	\$5.63	\$6.86
Energy / kWh		3.201 ¢	3.619¢	5.923¢	6.329 ¢
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400 ¢	-1.560 ¢

Peak-Controlled TOD (A24)		Base R	Base Rates		- Fuel
Customer / Mo.		\$55.00	\$55.00	\$55.00	\$55.00
On-Peak Demand / kW	Summer	\$14.07	\$15.79	\$14.07	\$15.79
	Winter	\$9.96	\$11.09	\$9.96	\$11.09
Control Demand / kW	Tier 2 - Level A	\$8.21	\$9.52	\$8.21	\$9.52
	Tier 2 - Level B	\$7.40	\$8.65	\$7.40	\$8.65
	Tier 2 - Level C	\$6.90	\$8.14	\$6.90	\$8.14
	Tier 1 - Level B	\$6.70	\$7.94	\$6.70	\$7.94
	Tier 1 - Level C	\$6.13	\$7.36	\$6.13	\$7.36
	Tier 1 - Short Notice	\$5.63	\$6.86	\$5.63	\$6.86
Off-Peak Demand / kW		\$2.40	\$2.35	\$2.40	\$2.35
Energy / kWh	On-Peak	4.482 ¢	5.158¢	7.937¢	8.547¢
	Off-Peak	2.233 ¢	2.487¢	4.401 ¢	4.703 ¢
Energy Credit / kWh		-1.4000 ¢	-1.5600¢	-1.4000 ¢	-1.5600 ¢

Tier 1 Energy-Controlled Rider (A27)		Base Ra	Base Rates		Fuel
Customer / Mo.		\$55.00	\$55.00	\$55.00	\$55.00
On-Peak Demand / kW	Summer Winter	\$14.07 \$9.96	\$15.79 \$11.09	\$14.07 \$9.96	\$15.79 \$11.09
Control Demand / kW	Tier 1 - Level B Tier 1 - Level C Tier 1 - Short Notice	\$6.70 \$6.13 \$5.63	\$7.94 \$7.36 \$6.86	\$6.70 \$6.13 \$5.63	\$7.94 \$7.36 \$6.86
Off-Peak Demand / kW		\$2.40	\$2.35	\$2.40	\$2.35
Energy / kWh	Firm On-Peak Firm Off-Peak	4.482 ¢ 2.233 ¢	5.158 ¢ 2.487 ¢	7.937 ¢ 4.401 ¢	8.547 ¢ 4.703 ¢
	Controllable On-Peak Controllable Off-Peak Control Period Energy	4.261 ¢ 2.178 ¢ 9.000 ¢	4.938 ¢ 2.420 ¢ 9.000 ¢	7.716 ¢ 4.346 ¢ 12.455 ¢	8.327 ¢ 4.636 ¢ 12.389 ¢
Energy Credit / kWh		-1.400 ¢	-1.560¢	-1.400¢	-1.560¢

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 12 of 14

		Present	Proposed	Present	Proposed
Real-Time Pricing (A63)		Base F	Base Rates		+ Fuel
Customer /Month		\$300.00	\$300.00	\$300.00	\$300.00
Contract Demand /kW		\$9.06	\$10.56	\$9.06	\$10.56
Distribution Demand /kW	Secondary	\$2.07	\$2.07	\$2.07	\$2.07
	Primary	\$1.07	\$1.07	\$1.07	\$1.07
	Transmission Transformed	\$0.46	\$0.46	\$0.46	\$0.46
Limited Energy	Standard	17.600 ¢	22.000 ¢	17.600¢	22.000 ¢
Surcharge /kWh	Control Level A	12.400 ¢	14.400¢	12.400 ¢	14.400 ¢
	Control Level B	8.800 ¢	10.200¢	8.800 ¢	10.200 ¢
	Control Level C	7.000 ¢	8.200 ¢	7.000 ¢	8.200 ¢
Energy Credit /kWh		-1.200 ¢	-1.200 ¢	-1.200 ¢	-1.200 ¢

Fire & Civil Defense Siren (A42)	Base Ra	Base Rates		Fuel
HP Capacity / Mo.	\$0.75	\$0.80	\$0.75	\$0.80
Min Charge / Mo.	\$3.61	\$3.86	\$3.61	\$3.86

			Present	Proposed
Standby Service Ric	ler			
Supplemental Gene	ration Service	Rider		
Customer / Mo.			\$25.75	\$25.78
Demand / Contract kW	Unscheduled	Secondary	\$3.47	\$3.59
	Maintenance	Primary	\$2.57	\$2.79
		Tran Transformed	\$1.87	\$2.04
		Transmission	\$1.07	\$1.24
	Scheduled	Secondary	\$3.37	\$3.49
	Maintenance	Primary	\$2.47	\$2.69
	and	Tran Transformed	\$1.77	\$1.94
	Supplemental	Transmission	\$0.97	\$1.14
	Non-Firm	Secondary	\$2.40	\$2.35
		Primary	\$1.50	\$1.55
		Tran Transformed	\$0.80	\$0.80
		Transmission	\$0.00	\$0.00

Northern States Power Company
Electric Utility - Minnesota
Plan Year Ending December 31, 2017

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 6
Page 13 of 14

Comparison Of Present & Proposed Rates

		Present	Proposed	Present	Proposed
Automatic Protective	Automatic Protective Lighting (A07)		Base Rates		+ Fuel
Area	100 W HPSodium	\$7.34	\$7.87	\$8.16	\$8.74
	175 W Mercury	\$7.34	\$7.87	\$8.75	\$9.47
	250 W HPSodium	\$11.64	\$12.58	\$13.78	\$14.87
	400 W Mercury	\$11.64	\$12.58	\$14.84	\$16.24
Directional	250 W HPSodium	\$12.62	\$14.97	\$14.76	\$17.26
	400 W HPSodium	\$16.12	\$18.74	\$19.48	\$22.34
	1000 W Mercury	\$25.52	\$29.15	\$33.19	\$37.38

Street Lighting System	(A30)	Base R	ates	Rates +	Fuel
Overhead	70 W HPSodium	\$8.95	\$10.27	\$9.51	\$10.88
	100 W HPSodium	\$9.44	\$10.88	\$10.26	\$11.75
	150 W HPSodium	\$10.15	\$11.71	\$11.34	\$12.99
	200 W HPSodium	\$11.89	\$13.81	\$13.54	\$15.58
	250 W HPSodium	\$12.78	\$14.88	\$14.92	\$17.17
	400 W HPSodium	\$15.50	\$18.08	\$18.86	\$21.68
	175 W Metal Halide	\$13.86	\$16.03	\$15.27	\$17.55
Underground	70 W HPSodium	\$17.67	\$21.03	\$18.23	\$21.64
	100 W HPSodium	\$18.16	\$21.63	\$18.98	\$22.50
	150 W HPSodium	\$18.87	\$22.47	\$20.06	\$23.75
	250 W HPSodium	\$21.29	\$25.15	\$23.43	\$27.44
	400 W HPSodium	\$23.72	\$28.04	\$27.08	\$31.64
	175 W Metal Halide	\$25.51	\$29.94	\$26.92	\$31.46
Decorative UG	100 W HPSodium	\$28.16	\$34.29	\$28.98	\$35.16
	150 W HPSodium	\$29.25	\$35.54	\$30.44	\$36.82
	250 W HPSodium	\$31.11	\$37.76	\$33.25	\$40.05
	400 W HPSodium	\$33.36	\$40.45	\$36.72	\$44.05
	175 W Metal Halide	\$33.36	\$40.45	\$34.77	\$41.97
Purchase Option	70 W HPSodium	\$5.50	\$6.38	\$6.06	\$6.99
	100 W HPSodium	\$6.14	\$7.15	\$6.96	\$8.02
	150 W HPSodium	\$6.94	\$8.08	\$8.13	\$9.36
	250 W HPSodium	\$8.83	\$10.33	\$10.97	\$12.62
	400 W HPSodium	\$11.38	\$13.35	\$14.74	\$16.95
	175 W Metal Halide	\$12.47	\$14.50	\$13.88	\$16.02

Docket No. E002/GR-15-826 Exhibit No. ____(SVH-1) Schedule 6 Page 14 of 14

	Present	Proposed	Present	Proposed
Street Lighting Energy (A32)		Rates	Rates	+ Fuel
100 W Mercury	\$2.37	\$2.58	\$3.25	\$3.53
175 W Mercury	\$3.53	\$3.86	\$4.94	\$5.37
250 W Mercury	\$4.78	\$5.23	\$6.77	\$7.36
400 W Mercury	\$7.45	\$8.17	\$10.65	\$11.60
700 W Mercury	\$12.39	\$13.59	\$17.85	\$19.45

10	00 W	Mercury	\$2.37	\$2.58	\$3.25	\$3.53
17	75 W	Mercury	\$3.53	\$3.86	\$4.94	\$5.37
25	50 W	Mercury	\$4.78	\$5.23	\$6.77	\$7.36
40	00 W	Mercury	\$7.45	\$8.17	\$10.65	\$11.60
70	00 W	Mercury	\$12.39	\$13.59	\$17.85	\$19.45
100	00 W	Mercury	\$17.24	\$18.92	\$24.91	\$27.15
1F7	2НО	Fluorescent	\$3.61	\$3.61	\$4.52	\$4.58
	50 W	HPSodium	\$1.32	\$1.43	\$1.72	\$1.86
	70 W	HPSodium	\$1.67	\$1.81	\$2.23	\$2.42
10	00 W	HPSodium	\$2.22	\$2.42	\$3.04	\$3.29
15	50 W	HPSodium	\$3.04	\$3.32	\$4.23	\$4.60
20	00 W	HPSodium	\$4.05	\$4.43	\$5.70	\$6.20
25	50 W	HPSodium	\$5.12	\$5.60	\$7.26	\$7.89
40	00 W	HPSodium	\$7.79	\$8.53	\$11.15	\$12.13
75	50 W	HPSodium	\$13.37	\$14.67	\$19.27	\$21.00

Street Lighting Energy - Metered (A34)	Base Rates		Rates + Fuel	
Customer / Mo.	\$4.75	\$5.00	\$4.75	\$5.00
Energy Charge per kWh	4.402 ¢	4.835¢	6.423¢	7.000 ¢

Street Lighting Energy - City of St. Paul (A37)	Base Ra	ites	Rates +	Fuel
100 W HPSodium	\$5.35	\$5.72	\$6.17	\$6.59
150 W HPSodium	\$6.07	\$6.41	\$7.26	\$7.69
250 W HPSodium	\$8.78	\$8.98	\$10.92	\$11.27

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7

Page 1 of 26

RESIDENTIAL SERVICE (Overhead) - A01

	Energy	Monthl	y Bill	Incre	ase
	in kWh	Present	Proposed	Amount	Percent
	250	\$36.29	\$40.31	\$4.02	11.09%
	300	\$41.84	\$46.22	\$4.38	10.48%
	400	\$52.94	\$58.04	\$5.10	9.64%
	500	\$64.04	\$69.86	\$5.82	9.10%
	600	\$75.14	\$81.69	\$6.55	8.71%
WINTER	675	\$83.47	\$90.55	\$7.09	8.49%
	750	\$91.80	\$99.42	\$7.63	8.31%
	1000	\$119.55	\$128.98	\$9.43	7.89%
	1500	\$175.06	\$188.09	\$13.03	7.44%
	2000	\$230.57	\$247.20	\$16.63	7.21%
	3000	\$341.59	\$365.43	\$23.84	6.98%
	4000	\$452.61	\$483.65	\$31.04	6.86%
	5000	\$563.63	\$601.88	\$38.24	6.79%
	250	\$40.03	\$44.55	\$4.51	11.27%
	300	\$46.33	\$51.30	\$4.97	10.72%
	400	\$58.94	\$64.82	\$5.88	9.98%
	500	\$71.54	\$78.34	\$6.80	9.50%
	600	\$84.14	\$76.54 \$91.85	\$7.71	9.17%
SUMMER	675	\$93.59	\$101.99	\$8.40	8.98%
SUMMER	750	\$103.04	\$112.13	\$9.09	8.82%
	1000	\$103.04 \$134.55	\$112.13 \$145.92	\$9.09 \$11.38	8.46%
	1500	\$134.55 \$197.55	\$213.51	\$11.36 \$15.95	8.40% 8.07%
	2000	\$197.55 \$260.56	\$213.51 \$281.09	\$15.95 \$20.53	7.88%
					7.68%
	3000	\$386.58 \$512.60	\$416.26	\$29.68	7.56% 7.58%
	4000	\$512.60 \$638.61	\$551.43 \$686.60	\$38.84 \$47.00	
	5000	φ030.01	Φ00.00	\$47.99	7.51%
		.			
	250	\$37.53	\$41.72	\$4.19	11.15%
	300	\$43.34	\$47.91	\$4.58	10.57%
	400	\$54.94	\$60.30	\$5.36	9.76%
	500	\$66.54	\$72.69	\$6.15	9.24%
	600	\$78.14	\$85.08	\$6.94	8.88%
AVERAGE	675	\$86.84	\$94.37	\$7.52	8.66%
MONTHLY	750	\$95.54	\$103.66	\$8.11	8.49%
	1000	\$124.55	\$134.63	\$10.08	8.09%
	1500	\$182.56	\$196.56	\$14.00	7.67%
	2000	\$240.57	\$258.50	\$17.93	7.45%
	3000	\$356.59	\$382.37	\$25.78	7.23%
	4000	\$472.61	\$506.24	\$33.64	7.12%
	5000	\$588.62	\$630.12	\$41.49	7.05%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 2 of 26

RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - A01

	Energy		y Bill	Incre	ease
	in kWh	Present	Ordered	Amount	Percent
			-		
	250	\$32.73	\$35.08	\$2.34	7.16%
	300	\$37.17	\$39.54	\$2.37	6.37%
	400	\$46.05	\$48.47	\$2.42	5.25%
	500	\$54.94	\$57.40	\$2.46	4.49%
	600	\$63.82	\$66.33	\$2.51	3.94%
WINTER	675	\$70.48	\$73.03	\$2.55	3.62%
	750	\$77.14	\$79.72	\$2.59	3.35%
	1000	\$99.34	\$102.05	\$2.71	2.73%
	1500	\$143.75	\$146.69	\$2.95	2.05%
	2000	\$188.15	\$191.34	\$3.19	1.70%
	3000	\$276.96	\$280.64	\$3.68	1.33%
	4000	\$365.77	\$369.93	\$4.16	1.14%
	5000	\$454.58	\$459.23	\$4.64	1.02%
	250	\$42.03	\$46.55	\$4.51	10.73%
	300	\$48.33	\$53.30	\$4.97	10.28%
	400	\$60.94	\$66.82	\$5.88	9.66%
	500	\$73.54	\$80.34	\$6.80	9.25%
	600	\$86.14	\$93.85	\$7.71	8.96%
SUMMER	675	\$95.59	\$103.99	\$8.40	8.79%
	750	\$105.04	\$114.13	\$9.09	8.65%
	1000	\$136.55	\$147.92	\$11.38	8.33%
	1500	\$199.55	\$215.51	\$15.95	7.99%
	2000	\$262.56	\$283.09	\$20.53	7.82%
	3000	\$388.58	\$418.26	\$29.68	7.64%
	4000	\$514.60	\$553.43	\$38.84	7.55%
	5000	\$640.61	\$688.60	\$47.99	7.49%
	250	ቀ ንድ <u></u>	የ 20 በበ	¢ 2.07	0.560/
	250	\$35.83 \$40.80	\$38.90	\$3.07	8.56%
	300	\$40.89 \$54.04	\$44.13 \$54.50	\$3.23	7.91%
	400	\$51.01 \$64.44	\$54.59	\$3.57	7.00%
	500	\$61.14	\$65.05	\$3.91	6.40%
AVED A OF	600	\$71.26	\$75.50	\$4.25	5.96%
AVERAGE	675	\$78.85	\$83.35	\$4.50	5.71%
MONTHLY	750	\$86.44	\$91.19	\$4.75	5.50%
	1000	\$111.74 \$162.25	\$117.34 \$160.63	\$5.60	5.01%
	1500	\$162.35	\$169.63	\$7.28	4.49%
	2000	\$212.95	\$221.93	\$8.97	4.21%
	3000	\$314.17	\$326.51	\$12.34	3.93%
	4000	\$415.38	\$431.10	\$15.72	3.78%
	5000	\$516.59	\$535.68	\$19.09	3.70%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 3 of 26

RESIDENTIAL SERVICE (Underground) - A03

	Energy	Monthly Bill		Incre	ase
	in kWh	Present	Ordered	Amount	Percent
	250	\$38.29	\$42.31	\$4.02	10.51%
	300	\$43.84	\$48.22	\$4.38	10.00%
	400	\$54.94	\$60.04	\$5.10	9.29%
	500	\$66.04	\$71.86	\$5.82	8.82%
	600	\$77.14	\$83.69	\$6.55	8.48%
WINTER	675	\$85.47	\$92.55	\$7.09	8.29%
	750	\$93.80	\$101.42	\$7.63	8.13%
	1000	\$121.55	\$130.98	\$9.43	7.76%
	1500	\$177.06	\$190.09	\$13.03	7.36%
	2000	\$232.57	\$249.20	\$16.63	7.15%
	3000	\$343.59	\$367.43	\$23.84	6.94%
	4000	\$454.61	\$485.65	\$31.04	6.83%
	5000	\$565.63	\$603.88	\$38.24	6.76%
		·	·	·	
	250	\$42.03	\$46.55	\$4.51	10.73%
	300	\$48.33	\$53.30	\$4.97	10.73%
	400	\$60.94	\$66.82	\$5.88	9.66%
		\$73.54	\$80.34	\$6.80	9.00%
	500		\$93.85		
CLIMATED	600	\$86.14	•	\$7.71	8.96%
SUMMER	675	\$95.59	\$103.99	\$8.40	8.79%
	750	\$105.04	\$114.13	\$9.09	8.65%
	1000	\$136.55 \$100.55	\$147.92	\$11.38	8.33%
	1500	\$199.55 \$262.56	\$215.51	\$15.95	7.99%
	2000	\$262.56	\$283.09	\$20.53	7.82%
	3000	\$388.58	\$418.26	\$29.68	7.64%
	4000	\$514.60	\$553.43	\$38.84	7.55%
	5000	\$640.61	\$688.60	\$47.99	7.49%
			*	*	
	250	\$39.53	\$43.72	\$4.19	10.59%
	300	\$45.34	\$49.91	\$4.58	10.10%
	400	\$56.94	\$62.30	\$5.36	9.42%
	500	\$68.54	\$74.69	\$6.15	8.97%
	600	\$80.14	\$87.08	\$6.94	8.65%
AVERAGE	675	\$88.84	\$96.37	\$7.52	8.47%
MONTHLY	750	\$97.54	\$105.66	\$8.11	8.32%
	1000	\$126.55	\$136.63	\$10.08	7.96%
	1500	\$184.56	\$198.56	\$14.00	7.59%
	2000	\$242.57	\$260.50	\$17.93	7.39%
	3000	\$358.59	\$384.37	\$25.78	7.19%
	4000	\$474.61	\$508.24	\$33.64	7.09%
	5000	\$590.62	\$632.12	\$41.49	7.03%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 4 of 26

RESIDENTIAL SERVICE - SPACE HEATING (Underground) - A03

	Energy	Monthly Bill		Incre	ase
	in kWh	Present	Ordered	Amount	Percent
		<u> </u>	<u></u>		
	250	\$34.73	\$37.08	\$2.34	6.75%
	300	\$39.17	\$41.54	\$2.37	6.05%
	400	\$48.05	\$50.47	\$2.42	5.03%
	500	\$56.94	\$59.40	\$2.46	4.33%
	600	\$65.82	\$68.33	\$2.51	3.82%
WINTER	675	\$72.48	\$75.03	\$2.55	3.52%
	750	\$79.14	\$81.72	\$2.59	3.27%
	1000	\$101.34	\$104.05	\$2.71	2.67%
	1500	\$145.75	\$148.69	\$2.95	2.02%
	2000	\$190.15	\$193.34	\$3.19	1.68%
	3000	\$278.96	\$282.64	\$3.68	1.32%
	4000	\$367.77	\$371.93	\$4.16	1.13%
	5000	\$456.58	\$461.23	\$4.64	1.02%
	250	\$44.03	\$48.55	\$4.51	10.24%
	300	\$44.03 \$50.33	\$48.55 \$55.30	\$4.51 \$4.97	9.87%
	400	\$62.94	\$68.82	\$5.88	9.35%
	500	\$75.54	\$82.34	\$5.00 \$6.80	9.35%
	600	\$75.54 \$88.14	\$95.85	\$6.60 \$7.71	9.00% 8.75%
SUMMER	675	\$97.59	\$105.99	\$7.71 \$8.40	8.61%
COMMEN	750	\$107.04	\$105.99 \$116.13	\$6.40 \$9.09	8.49%
	1000	\$107.04 \$138.55	\$116.13 \$149.92	\$9.09 \$11.38	8.49% 8.21%
	1500	\$201.55	\$149.92 \$217.51	\$11.36 \$15.95	7.91%
	2000	\$201.55 \$264.56	\$217.51 \$285.09	\$15.95 \$20.53	7.91% 7.76%
	3000	\$264.56 \$390.58	\$285.09 \$420.26	\$20.53 \$29.68	7.76% 7.60%
	3000 4000	\$390.58 \$516.60	\$420.26 \$555.43	\$29.68 \$38.84	7.60% 7.52%
	4000 5000	\$516.60 \$642.61	\$555.43 \$690.60	\$38.84 \$47.99	7.52% 7.47%
	5500	ψ υ τ	ψυσυ.συ	Ψ	⊤. /0
	250	\$37.83	\$40.90	\$3.07	8.10%
	300	\$42.89	\$46.13	\$3.23	7.54%
	400	\$53.01	\$56.59	\$3.57	6.74%
	500	\$63.14	\$67.05	\$3.91	6.19%
	600	\$73.26	\$77.50	\$4.25	5.80%
AVERAGE	675	\$80.85	\$85.35	\$4.50	5.57%
MONTHLY	750	\$88.44	\$93.19	\$4.75	5.37%
	1000	\$113.74	\$119.34	\$5.60	4.92%
	1500	\$164.35	\$171.63	\$7.28	4.43%
	2000	\$214.95	\$223.93	\$8.97	4.17%
	3000	\$316.17	\$328.51	\$12.34	3.90%
	4000	\$417.38	\$433.10	\$15.72	3.77%
	5000	\$518.59	\$537.68	\$19.09	3.68%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 5 of 26

RESIDENTIAL TIME OF DAY SERVICE (Overhead) - A02

35% On-Peak 65% Off-Peak

	Energy	Monthly Bill		Increase	
	in kWh	Present	Ordered	Amount	Percent
	250	\$37.48	\$41.50	\$4.02	10.73%
	300	\$42.87	\$47.25	\$4.38	10.22%
	400	\$53.65	\$58.75	\$5.10	9.51%
	500	\$64.43	\$70.25	\$5.82	9.03%
	600	\$75.21	\$81.75	\$6.54	8.69%
WINTER	675	\$83.30	\$90.38	\$7.08	8.50%
	750	\$91.39	\$99.00	\$7.62	8.34%
	1000	\$118.34	\$127.75	\$9.42	7.96%
	1500	\$172.24	\$185.25	\$13.01	7.56%
	2000	\$226.14	\$242.75	\$16.61	7.35%
	3000	\$333.95	\$357.76	\$23.81	7.13%
	4000	\$441.76	\$472.76	\$31.00	7.02%
	5000	\$549.56	\$587.76	\$38.19	6.95%
	250	\$41.01	\$45.48	\$4.46	10.88%
	300	\$47.11	\$52.02	\$4.91	10.42%
	400	\$59.30	\$65.11	\$5.81	9.79%
	500	\$71.50	\$78.20	\$6.70	9.38%
	600	\$83.69	\$91.29	\$7.60	9.08%
SUMMER	675	\$92.84	\$101.11	\$8.27	8.91%
SOMMEN	750	\$101.98	\$110.92	\$8.94	8.77%
	1000	\$132.46	\$143.65	\$11.18	8.44%
	1500	\$193.43	\$209.09	\$15.66	8.10%
	2000	\$254.40	\$274.54	\$20.14	7.92%
	3000	\$376.33	\$405.44	\$29.10	7.73%
	4000	\$498.26	\$536.33	\$38.07	7.64%
	5000	\$620.20	\$667.22	\$47.03	7.58%
	3000	ψ020.20	ΨΟΟΤ.ΖΖ	ψ+7.00	7.0070
	250	\$38.66	\$42.83	\$4.17	10.78%
	300	\$44.28	\$48.84	\$4.56	10.29%
	400	\$55.54	\$60.87	\$5.34	9.61%
	500	\$66.79	\$72.90	\$6.11	9.15%
	600	\$78.04	\$84.93	\$6.89	8.83%
AVERAGE	675	\$86.48	\$93.95	\$7.48	8.65%
MONTHLY	750	\$94.92	\$102.98	\$8.06	8.49%
	1000	\$123.05	\$133.05	\$10.01	8.13%
	1500	\$179.30	\$193.20	\$13.90	7.75%
	2000	\$235.56	\$253.35	\$17.79	7.55%
	3000	\$348.08	\$373.65	\$25.57	7.35%
	4000	\$460.59	\$493.95	\$33.36	7.24%
	5000	\$573.11	\$614.25	\$41.14	7.18%
	-		+	* * * * * * *	

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 6 of 26

RESIDENTIAL TIME OF DAY SERVICE - SPACE HEATING (Overhead) - A02

35% On-Peak 65% Off-Peak

	Energy	Monthly Bill		Increase	
	in kWh	Present	Ordered	Amount	Percent
	250	\$34.63	\$37.01	\$2.37	6.85%
	300	\$39.05	\$41.46	\$2.40	6.15%
	400	\$47.89	\$50.36	\$2.46	5.14%
	500	\$56.73	\$59.26	\$2.52	4.45%
	600	\$65.58	\$68.16	\$2.58	3.94%
WINTER	675	\$72.21	\$74.83	\$2.63	3.64%
	750	\$78.84	\$81.51	\$2.67	3.39%
	1000	\$100.94	\$103.76	\$2.82	2.80%
	1500	\$145.14	\$148.27	\$3.12	2.15%
	2000	\$189.35	\$192.77	\$3.42	1.81%
	3000	\$277.76	\$281.78	\$4.02	1.45%
	4000	\$366.17	\$370.79	\$4.62	1.26%
	5000	\$454.58	\$459.80	\$5.22	1.15%
	250	\$43.01	\$47.48	\$4.46	10.38%
	300	\$49.11	\$54.02	\$4.91	10.00%
	400	\$61.30	\$67.11	\$5.81	9.47%
	500	\$73.50	\$80.20	\$6.70	9.12%
	600	\$85.69	\$93.29	\$7.60	8.87%
SUMMER	675	\$94.84	\$103.11	\$8.27	8.72%
	750	\$103.98	\$112.92	\$8.94	8.60%
	1000	\$134.46	\$145.65	\$11.18	8.32%
	1500	\$195.43	\$211.09	\$15.66	8.02%
	2000	\$256.40	\$276.54	\$20.14	7.86%
	3000	\$378.33	\$407.44	\$29.10	7.69%
	4000	\$500.26	\$538.33	\$38.07	7.61%
	5000	\$622.20	\$669.22	\$47.03	7.56%
	250	\$37.43	\$40.50	\$3.07	8.20%
	300	\$42.41	\$45.64	\$3.24	7.64%
	400	\$52.36	\$55.94	\$3.58	6.83%
	500	\$62.32	\$66.24	\$3.92	6.28%
	600	\$72.28	\$76.54	\$4.25	5.89%
AVERAGE	675	\$79.75	\$84.26	\$4.51	5.65%
MONTHLY	750	\$87.22	\$91.98	\$4.76	5.46%
	1000	\$112.11	\$117.72	\$5.61	5.00%
	1500	\$161.91	\$169.21	\$7.30	4.51%
	2000	\$211.70	\$220.70	\$9.00	4.25%
	3000	\$311.28	\$323.67	\$12.38	3.98%
	4000	\$410.87	\$426.64	\$15.77	3.84%
	5000	\$510.45	\$529.61	\$19.16	3.75%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 7 of 26

SMALL GENERAL SERVICE

	Energy	Monthly Bill		Increase	
	in kWh	Present	Ordered	Amount	Percent
					<u></u>
	250	\$37.15	\$39.71	\$2.56	6.90%
	300	\$42.44	\$45.08	\$2.64	6.22%
	400	\$53.01	\$55.80	\$2.79	5.26%
	500	\$63.59	\$66.53	\$2.94	4.62%
WINTER	600	\$74.17	\$77.25	\$3.08	4.16%
	750	\$90.03	\$93.34	\$3.31	3.67%
	1000	\$116.47	\$120.15	\$3.68	3.16%
	1500	\$169.35	\$173.77	\$4.42	2.61%
	2000	\$222.23	\$227.39	\$5.16	2.32%
	3000	\$327.99	\$334.64	\$6.65	2.03%
	4000	\$433.75	\$441.88	\$8.13	1.88%
	5000	\$539.51	\$549.13	\$9.62	1.78%
	250	\$40.91	\$43.95	\$3.04	7.44%
	300	\$46.95	\$50.16	\$3.21	6.84%
	400	\$59.03	\$62.58	\$3.55	6.02%
	500	\$71.11	\$75.00	\$3.89	5.47%
SUMMER	600	\$83.19	\$87.42	\$4.23	5.09%
	750	\$101.31	\$106.05	\$4.74	4.68%
	1000	\$131.51	\$137.10	\$5.59	4.25%
	1500	\$191.91	\$199.20	\$7.29	3.80%
	2000	\$252.31	\$261.30	\$8.99	3.56%
	3000	\$373.11	\$385.50	\$12.39	3.32%
	4000	\$493.91	\$509.70	\$15.79	3.20%
	5000	\$614.71	\$633.90	\$19.18	3.12%
	250	\$38.40	\$41.13	\$2.72	7.09%
	300	\$43.94	\$46.77	\$2.83	6.44%
	400	\$55.02	\$58.06	\$3.04	5.53%
	500	\$66.10	\$69.35	\$3.25	4.92%
AVERAGE	600	\$77.17	\$80.64	\$3.47	4.49%
MONTHLY	750	\$93.79	\$97.58	\$3.79	4.04%
	1000	\$121.48	\$125.80	\$4.32	3.55%
	1500	\$176.87	\$182.25	\$5.38	3.04%
	2000	\$232.26	\$238.70	\$6.44	2.77%
	3000	\$343.03	\$351.59	\$8.56	2.50%
	4000	\$453.81	\$464.49	\$10.68	2.35%
	5000	\$564.58	\$577.39	\$12.81	2.27%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 8 of 26

GENERAL SERVICE (Secondary Voltage)

Demand	Energy		Monthly Bill		Increase	
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		_			•	
15	3,000	200	\$389.15	\$406.14	\$16.99	4.37%
15	6,000	400	\$570.28	\$597.78	\$27.50	4.82%
15	9,000	600	\$709.41	\$742.62	\$33.21	4.68%
25	5,000	200	\$630.00	\$658.43	\$28.43	4.51%
25	10,000	400	\$931.88	\$977.83	\$45.95	4.93%
25	15,000	600	\$1,163.76	\$1,219.23	\$55.47	4.77%
50	10,000	200	\$1,232.12	\$1,289.16	\$57.05	4.63%
50	20,000	400	\$1,835.87	\$1,927.96	\$92.09	5.02%
50	30,000	600	\$2,299.63	\$2,410.76	\$111.13	4.83%
75	15,000	200	\$1,834.23	\$1,919.90	\$85.66	4.67%
75	30,000	400	\$2,739.87	\$2,878.09	\$138.22	5.04%
75	45,000	600	\$3,435.51	\$3,602.29	\$166.78	4.85%
100	20,000	200	\$2,436.35	\$2,550.63	\$114.28	4.69%
100	40,000	400	\$3,643.87	\$3,828.22	\$184.36	5.06%
100	60,000	600	\$4,571.38	\$4,793.82	\$222.44	4.87%
200	40,000	200	\$4,844.82	\$5,073.56	\$228.74	4.72%
200	80,000	400	\$7,259.85	\$7,628.75	\$368.90	5.08%
200	120,000	600	\$9,114.88	\$9,559.94	\$445.06	4.88%
300	60,000	200	\$7,253.29	\$7,596.49	\$343.19	4.73%
300	120,000	400	\$10,875.84	\$11,429.27	\$553.44	5.09%
300	180,000	600	\$13,658.38	\$14,326.06	\$667.68	4.89%
400	80,000	200	\$9,661.76	\$10,119.42	\$457.65	4.74%
400	160,000	400	\$14,491.82	\$15,229.80	\$737.97	5.09%
400	240,000	600	\$18,201.89	\$19,092.18	\$890.30	4.89%
500	100,000	200	\$12,070.23	\$12,642.34	\$572.11	4.74%
500	200,000	400	\$18,107.81	\$19,030.32	\$922.51	5.09%
500	300,000	600	\$22,745.39	\$23,858.30	\$1,112.91	4.89%
750	150,000	200	\$18,091.41	\$18,949.67	\$858.26	4.74%
750	300,000	400	\$27,147.77	\$28,531.63	\$1,383.86	5.10%
750	450,000	600	\$34,104.14	\$35,773.60	\$1,669.46	4.90%
1,000	200,000	200	\$24,112.59	\$25,256.99	\$1,144.40	4.75%
1,000	400,000	400	\$36,187.74	\$38,032.95	\$1,845.21	5.10%
1,000	600,000	600	\$45,462.89	\$47,688.90	\$2,226.01	4.90%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 9 of 26

GENERAL SERVICE (Primary Voltage)

Demand	Energy	Ī	Monthly Bill		Increase	
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
15	3,000	200	\$372.86	\$390.93	\$18.07	4.85%
15	6,000	400	\$551.20	\$579.36	\$28.17	5.11%
15	9,000	600	\$687.54	\$721.00	\$33.46	4.87%
25	5,000	200	\$602.85	\$633.09	\$30.24	5.02%
25	10,000	400	\$900.08	\$947.14	\$47.06	5.23%
25	15,000	600	\$1,127.31	\$1,183.19	\$55.89	4.96%
50	10,000	200	\$1,177.82	\$1,238.47	\$60.66	5.15%
50	20,000	400	\$1,772.27	\$1,866.58	\$94.31	5.32%
50	30,000	600	\$2,226.73	\$2,338.69	\$111.96	5.03%
75	15,000	200	\$1,752.78	\$1,843.86	\$91.08	5.20%
75	30,000	400	\$2,644.47	\$2,786.02	\$141.55	5.35%
75	45,000	600	\$3,326.16	\$3,494.18	\$168.03	5.05%
100	20,000	200	\$2,327.75	\$2,449.25	\$121.50	5.22%
100	40,000	400	\$3,516.67	\$3,705.46	\$188.80	5.37%
100	60,000	600	\$4,425.58	\$4,649.68	\$224.10	5.06%
200	40,000	200	\$4,627.62	\$4,870.80	\$243.18	5.25%
200	80,000	400	\$7,005.45	\$7,383.23	\$377.78	5.39%
200	120,000	600	\$8,823.28	\$9,271.66	\$448.38	5.08%
300	60,000	200	\$6,927.49	\$7,292.35	\$364.85	5.27%
300	120,000	400	\$10,494.24	\$11,060.99	\$566.76	5.40%
300	180,000	600	\$13,220.98	\$13,893.64	\$672.66	5.09%
400	80,000	200	\$9,227.36	\$9,713.90	\$486.53	5.27%
400	160,000	400	\$13,983.02	\$14,738.76	\$755.73	5.40%
400	240,000	600	\$17,618.69	\$18,515.62	\$896.94	5.09%
500	100,000	200	\$11,527.23	\$12,135.44	\$608.21	5.28%
500	200,000	400	\$17,471.81	\$18,416.52	\$944.71	5.41%
500	300,000	600	\$22,016.39	\$23,137.60	\$1,121.21	5.09%
750	150,000	200	\$17,276.91	\$18,189.32	\$912.41	5.28%
750	300,000	400	\$26,193.77	\$27,610.93	\$1,417.16	5.41%
750	450,000	600	\$33,010.64	\$34,692.55	\$1,681.91	5.10%
1,000	200,000	200	\$23,026.59	\$24,243.19	\$1,216.60	5.28%
1,000	400,000	400	\$34,915.74	\$36,805.35	\$1,889.61	5.41%
1,000	600,000	600	\$44,004.89	\$46,247.50	\$2,242.61	5.10%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 10 of 26

GENERAL TOD SERVICE (Secondary Voltage)

Demand	Energy	ſ	Month	nly Bill	Incre	
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		-				
15	3,000	200	\$389.93	\$407.52	\$17.58	4.51%
15	6,000	400	\$567.85	\$596.53	\$28.69	5.05%
15	9,000	600	\$703.76	\$738.75	\$34.99	4.97%
25	5,000	200	\$628.64	\$658.06	\$29.42	4.68%
25	10,000	400	\$925.16	\$973.09	\$47.93	5.18%
25	15,000	600	\$1,151.67	\$1,210.12	\$58.44	5.07%
50	10,000	200	\$1,225.39	\$1,284.42	\$59.03	4.82%
50	20,000	400	\$1,818.43	\$1,914.48	\$96.05	5.28%
50	30,000	600	\$2,271.47	\$2,388.53	\$117.06	5.15%
75	15,000	200	\$1,822.15	\$1,910.78	\$88.63	4.86%
75	30,000	400	\$2,711.71	\$2,855.86	\$144.16	5.32%
75	45,000	600	\$3,391.26	\$3,566.95	\$175.69	5.18%
100	20,000	200	\$2,418.91	\$2,537.14	\$118.23	4.89%
100	40,000	400	\$3,604.98	\$3,797.25	\$192.27	5.33%
100	60,000	600	\$4,511.06	\$4,745.36	\$234.31	5.19%
200	40,000	200	\$4,805.94	\$5,042.59	\$236.65	4.92%
200	80,000	400	\$7,178.08	\$7,562.81	\$384.72	5.36%
200	120,000	600	\$8,990.23	\$9,459.03	\$468.80	5.21%
300	60,000	200	\$7,192.97	\$7,548.03	\$355.06	4.94%
300	120,000	400	\$10,751.19	\$11,328.36	\$577.18	5.37%
300	180,000	600	\$13,469.41	\$14,172.69	\$703.29	5.22%
500	100,000	200	\$11,967.02	\$12,558.92	\$591.90	4.95%
500	200,000	400	\$17,897.39	\$18,859.47	\$962.08	5.38%
500	300,000	600	\$22,427.76	\$23,600.02	\$1,172.27	5.23%
1,000	200,000	200	\$23,902.16	\$25,086.14	\$1,183.97	4.95%
1,000	400,000	400	\$35,762.90	\$37,687.24	\$1,924.34	5.38%
1,000	600,000	600	\$44,823.63	\$47,168.35	\$2,344.72	5.23%
3,000	600,000	200	\$71,642.73	\$75,195.01	\$3,552.28	4.96%
3,000	1,200,000	400	\$107,224.93	\$112,998.33	\$5,773.39	5.38%
3,000	1,800,000	600	\$134,407.13	\$141,441.64	\$7,034.51	5.23%
5,000	1,000,000	200	\$119,383.30	\$125,303.89	\$5,920.58	4.96%
5,000	2,000,000	400	\$178,686.97	\$188,309.41	\$9,622.44	5.39%
5,000	3,000,000	600	\$223,990.64	\$235,714.94	\$11,724.30	5.23%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 11 of 26

GENERAL TOD SERVICE (Primary Voltage)

Demand	Energy	ſ	Month	nly Bill	Incre	
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		-				
15	3,000	200	\$373.64	\$392.31	\$18.66	5.00%
15	6,000	400	\$548.77	\$578.12	\$29.35	5.35%
15	9,000	600	\$681.89	\$717.13	\$35.24	5.17%
25	5,000	200	\$601.49	\$632.71	\$31.23	5.19%
25	10,000	400	\$893.36	\$942.40	\$49.04	5.49%
25	15,000	600	\$1,115.22	\$1,174.08	\$58.86	5.28%
50	10,000	200	\$1,171.09	\$1,233.73	\$62.64	5.35%
50	20,000	400	\$1,754.83	\$1,853.10	\$98.27	5.60%
50	30,000	600	\$2,198.57	\$2,316.46	\$117.89	5.36%
75	15,000	200	\$1,740.70	\$1,834.75	\$94.05	5.40%
75	30,000	400	\$2,616.31	\$2,763.79	\$147.49	5.64%
75	45,000	600	\$3,281.91	\$3,458.84	\$176.93	5.39%
100	20,000	200	\$2,310.31	\$2,435.76	\$125.45	5.43%
100	40,000	400	\$3,477.78	\$3,674.49	\$196.71	5.66%
100	60,000	600	\$4,365.26	\$4,601.22	\$235.97	5.41%
200	40,000	200	\$4,588.74	\$4,839.83	\$251.09	5.47%
200	80,000	400	\$6,923.68	\$7,317.29	\$393.60	5.68%
200	120,000	600	\$8,698.63	\$9,170.75	\$472.12	5.43%
300	60,000	200	\$6,867.17	\$7,243.89	\$376.72	5.49%
300	120,000	400	\$10,369.59	\$10,960.08	\$590.50	5.69%
300	180,000	600	\$13,032.01	\$13,740.27	\$708.27	5.43%
500	100,000	200	\$11,424.02	\$12,052.02	\$628.00	5.50%
500	200,000	400	\$17,261.39	\$18,245.67	\$984.28	5.70%
500	300,000	600	\$21,698.76	\$22,879.32	\$1,180.57	5.44%
1,000	200,000	200	\$22,816.16	\$24,072.34	\$1,256.17	5.51%
1,000	400,000	400	\$34,490.90	\$36,459.64	\$1,968.74	5.71%
1,000	600,000	600	\$43,365.63	\$45,726.95	\$2,361.32	5.45%
3,000	600,000	200	\$68,384.73	\$72,153.61	\$3,768.88	5.51%
3,000	1,200,000	400	\$103,408.93	\$109,315.53	\$5,906.59	5.71%
3,000	1,800,000	600	\$130,033.13	\$137,117.44	\$7,084.31	5.45%
5,000	1,000,000	200	\$113,953.30	\$120,234.89	\$6,281.58	5.51%
5,000	2,000,000	400	\$172,326.97	\$182,171.41	\$9,844.44	5.71%
5,000	3,000,000	600	\$216,700.64	\$228,507.94	\$11,807.30	5.45%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 12 of 26

GENERAL TOD SERVICE (Transmission Transformed Voltage)

Demand	Energy		Month	nly Bill	Incre	ease
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		_				
15	3,000	200	\$357.72	\$376.10	\$18.38	5.14%
15	6,000	400	\$527.42	\$556.96	\$29.53	5.60%
15	9,000	600	\$655.12	\$691.01	\$35.89	5.48%
25	5,000	200	\$574.95	\$605.70	\$30.75	5.35%
25	10,000	400	\$857.79	\$907.13	\$49.34	5.75%
25	15,000	600	\$1,070.62	\$1,130.55	\$59.93	5.60%
50	10,000	200	\$1,118.02	\$1,179.71	\$61.69	5.52%
50	20,000	400	\$1,683.69	\$1,782.56	\$98.87	5.87%
50	30,000	600	\$2,109.36	\$2,229.40	\$120.04	5.69%
75	15,000	200	\$1,661.10	\$1,753.72	\$92.62	5.58%
75	30,000	400	\$2,509.60	\$2,657.98	\$148.39	5.91%
75	45,000	600	\$3,148.10	\$3,328.25	\$180.16	5.72%
100	20,000	200	\$2,204.17	\$2,327.72	\$123.55	5.61%
100	40,000	400	\$3,335.50	\$3,533.41	\$197.91	5.93%
100	60,000	600	\$4,186.84	\$4,427.10	\$240.27	5.74%
200	40,000	200	\$4,376.46	\$4,623.75	\$247.29	5.65%
200	80,000	400	\$6,639.12	\$7,035.13	\$396.00	5.96%
200	120,000	600	\$8,341.79	\$8,822.51	\$480.72	5.76%
300	60,000	200	\$6,548.75	\$6,919.77	\$371.02	5.67%
300	120,000	400	\$9,942.75	\$10,536.84	\$594.10	5.98%
300	180,000	600	\$12,496.75	\$13,217.91	\$721.17	5.77%
500	100,000	200	\$10,893.32	\$11,511.82	\$618.50	5.68%
500	200,000	400	\$16,549.99	\$17,540.27	\$990.28	5.98%
500	300,000	600	\$20,806.66	\$22,008.72	\$1,202.07	5.78%
1,000	200,000	200	\$21,754.76	\$22,991.94	\$1,237.17	5.69%
1,000	400,000	400	\$33,068.10	\$35,048.84	\$1,980.74	5.99%
1,000	600,000	600	\$41,581.43	\$43,985.75	\$2,404.32	5.78%
3,000	600,000	200	\$65,200.53	\$68,912.41	\$3,711.88	5.69%
3,000	1,200,000	400	\$99,140.53	\$105,083.13	\$5,942.59	5.99%
3,000	1,800,000	600	\$124,680.53	\$131,893.84	\$7,213.31	5.79%
5,000	1,000,000	200	\$108,646.30	\$114,832.89	\$6,186.58	5.69%
5,000	2,000,000	400	\$165,212.97	\$175,117.41	\$9,904.44	5.99%
5,000	3,000,000	600	\$207,779.64	\$219,801.94	\$12,022.30	5.79%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 13 of 26

GENERAL TOD SERVICE (Transmission Voltage)

Demand	Energy		Mont	hly Bill	Incre	ease
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
15	3,000	200	\$345.41	\$363.80	\$18.38	5.32%
15	6,000	400	\$514.81	\$544.34	\$29.54	5.74%
15	9,000	600	\$642.20	\$678.09	\$35.90	5.59%
25	5,000	200	\$554.44	\$585.19	\$30.76	5.55%
25	10,000	400	\$836.76	\$886.11	\$49.35	5.90%
25	15,000	600	\$1,049.07	\$1,109.02	\$59.95	5.71%
50	10,000	200	\$1,076.99	\$1,138.69	\$61.70	5.73%
50	20,000	400	\$1,641.63	\$1,740.52	\$98.89	6.02%
50	30,000	600	\$2,066.27	\$2,186.34	\$120.07	5.81%
75	15,000	200	\$1,599.55	\$1,692.19	\$92.64	5.79%
75	30,000	400	\$2,446.51	\$2,594.92	\$148.42	6.07%
75	45,000	600	\$3,083.46	\$3,263.66	\$180.20	5.84%
100	20,000	200	\$2,122.11	\$2,245.68	\$123.57	5.82%
100	40,000	400	\$3,251.38	\$3,449.33	\$197.95	6.09%
100	60,000	600	\$4,100.66	\$4,340.98	\$240.33	5.86%
200	40,000	200	\$4,212.34	\$4,459.67	\$247.33	5.87%
200	80,000	400	\$6,470.88	\$6,866.97	\$396.08	6.12%
200	120,000	600	\$8,169.43	\$8,650.27	\$480.84	5.89%
300	60,000	200	\$6,302.57	\$6,673.65	\$371.08	5.89%
300	120,000	400	\$9,690.39	\$10,284.60	\$594.22	6.13%
300	180,000	600	\$12,238.21	\$12,959.55	\$721.35	5.89%
500	100,000	200	\$10,483.02	\$11,101.62	\$618.60	5.90%
500	200,000	400	\$16,129.39	\$17,119.87	\$990.48	6.14%
500	300,000	600	\$20,375.76	\$21,578.12	\$1,202.37	5.90%
1,000	200,000	200	\$20,934.16	\$22,171.54	\$1,237.37	5.91%
1,000	400,000	400	\$32,226.90	\$34,208.04	\$1,981.14	6.15%
1,000	600,000	600	\$40,719.63	\$43,124.55	\$2,404.92	5.91%
3,000	600,000	200	\$62,738.73	\$66,451.21	\$3,712.48	5.92%
3,000	1,200,000	400	\$96,616.93	\$102,560.73	\$5,943.79	6.15%
3,000	1,800,000	600	\$122,095.13	\$129,310.24	\$7,215.11	5.91%
5,000	1,000,000	200	\$104,543.30	\$110,730.89	\$6,187.58	5.92%
5,000	2,000,000	400	\$161,006.97	\$170,913.41	\$9,906.44	6.15%
5,000	3,000,000	600	\$203,470.64	\$215,495.94	\$12,025.30	5.91%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 14 of 26

RESIDENTIAL SERVICE (Overhead) - A01

	Energy	Monti	hly Bill	Incre	ease
	in kWh	Present	Proposed	Amount	Percent
	250	\$36.27	\$41.03	\$4.76	13.11%
	300	\$41.82	\$47.08	\$5.26	12.58%
	400	\$52.91	\$59.19	\$6.28	11.86%
	500	\$64.01	\$71.30	\$7.29	11.39%
	600	\$75.11	\$83.41	\$8.30	11.05%
WINTER	675	\$83.43	\$92.49	\$9.06	10.86%
	750	\$91.75	\$101.57	\$9.82	10.71%
	1000	\$119.49	\$131.85	\$12.36	10.34%
	1500	\$174.97	\$192.39	\$17.42	9.96%
	2000	\$230.45	\$252.94	\$22.49	9.76%
	3000	\$341.41	\$374.04	\$32.62	9.56%
	4000	\$452.37	\$495.13	\$42.76	9.45%
	5000	\$563.34	\$616.23	\$52.89	9.39%
		·	·	·	
	250	\$40.02	\$45.34	\$5.32	13.29%
	300	\$46.32	\$52.25	\$5.94	12.82%
	400	\$58.91	\$66.09	\$7.18	12.18%
	500	\$71.51	\$79.92	\$8.41	11.77%
	600	\$84.10	\$93.76	\$9.65	11.48%
SUMMER	675	\$93.55	\$104.13	\$10.58	11.31%
	750	\$103.00	\$114.51	\$11.51	11.17%
	1000	\$134.49	\$149.09	\$14.60	10.86%
	1500	\$197.47	\$218.26	\$20.80	10.53%
	2000	\$260.44	\$287.43	\$26.99	10.36%
	3000	\$386.40	\$425.77	\$39.37	10.19%
	4000	\$512.36	\$564.11	\$51.75	10.10%
	5000	\$638.32	\$702.45	\$64.13	10.05%
	250	\$37.52	\$42.46	\$4.94	13.18%
	300	\$43.32	\$48.81	\$5.49	12.67%
	400	\$54.91	\$61.49	\$6.58	11.97%
	500	\$66.51	\$74.17	\$7.66	11.52%
	600	\$78.11	\$86.86	\$8.75	11.21%
AVERAGE	675	\$86.80	\$96.37	\$9.57	11.02%
MONTHLY	750	\$95.50	\$105.88	\$10.38	10.87%
	1000	\$124.49	\$137.60	\$13.11	10.53%
	1500	\$182.47	\$201.02	\$18.55	10.16%
	2000	\$240.45	\$264.44	\$23.99	9.98%
	3000	\$356.41	\$391.28	\$34.87	9.78%
	4000	\$472.37	\$518.12	\$45.75	9.69%
	5000	\$588.33	\$644.97	\$56.64	9.63%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 15 of 26

RESIDENTIAL SERVICE - SPACE HEATING (Overhead) - A01

Energy		Monthly Bill		Increase	
	in kWh	Present	Ordered	Amount	Percent
	250	\$32.72	\$35.80	\$3.08	9.42%
	300	\$37.16	\$40.41	\$3.25	8.75%
	400	\$46.03	\$49.63	\$3.60	7.81%
	500	\$54.91	\$58.84	\$3.94	7.17%
	600	\$63.78	\$68.06	\$4.28	6.71%
WINTER	675	\$70.44	\$74.98	\$4.54	6.45%
	750	\$77.09	\$81.89	\$4.80	6.22%
	1000	\$99.28	\$104.94	\$5.66	5.70%
	1500	\$143.66	\$151.03	\$7.37	5.13%
	2000	\$188.03	\$197.12	\$9.09	4.83%
	3000	\$276.78	\$289.31	\$12.52	4.52%
	4000	\$365.53	\$381.49	\$15.96	4.37%
	5000	\$454.29	\$473.68	\$19.39	4.27%
			.		
	250	\$42.02	\$47.34	\$5.32	12.66%
	300	\$48.32	\$54.25	\$5.94	12.29%
	400	\$60.91	\$68.09	\$7.18	11.78%
	500	\$73.51	\$81.92	\$8.41	11.45%
	600	\$86.10	\$95.76	\$9.65	11.21%
SUMMER	675	\$95.55	\$106.13	\$10.58	11.07%
	750	\$105.00	\$116.51	\$11.51	10.96%
	1000	\$136.49	\$151.09	\$14.60	10.70%
	1500	\$199.47	\$220.26	\$20.80	10.43%
	2000	\$262.44	\$289.43	\$26.99	10.28%
	3000	\$388.40	\$427.77	\$39.37	10.14%
	4000	\$514.36	\$566.11	\$51.75	10.06%
	5000	\$640.32	\$704.45	\$64.13	10.02%
	250	\$35.82	\$39.65	\$3.83	10.68%
	300	\$40.88	\$45.02	\$4.15	10.15%
	400	\$50.99	\$55.78	\$4.79	9.39%
	500	\$61.11	\$66.54	\$5.43	8.89%
	600	\$71.22	\$77.29	\$6.07	8.53%
AVERAGE	675	\$78.81	\$85.36	\$6.55	8.32%
MONTHLY	750	\$86.39	\$93.43	\$7.03	8.14%
	1000	\$111.68	\$120.32	\$8.64	7.74%
	1500	\$162.26	\$174.11	\$11.85	7.30%
	2000	\$212.84	\$227.89	\$15.06	7.07%
	3000	\$313.99	\$335.46	\$21.47	6.84%
	4000	\$415.14	\$443.03	\$27.89	6.72%
	5000	\$516.30	\$550.60	\$34.30	6.64%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 16 of 26

RESIDENTIAL SERVICE (Underground) - A03

Energy		Mont	Monthly Bill		ease
	in kWh	Present	Ordered	Amount	Percent
	250	\$38.27	\$43.03	\$4.76	12.43%
	300	\$43.82	\$49.08	\$5.26	12.01%
	400	\$54.91	\$61.19	\$6.28	11.43%
	500	\$66.01	\$73.30	\$7.29	11.04%
	600	\$77.11	\$85.41	\$8.30	10.77%
WINTER	675	\$85.43	\$94.49	\$9.06	10.61%
	750	\$93.75	\$103.57	\$9.82	10.48%
	1000	\$121.49	\$133.85	\$12.36	10.17%
	1500	\$176.97	\$194.39	\$17.42	9.84%
	2000	\$232.45	\$254.94	\$22.49	9.67%
	3000	\$343.41	\$376.04	\$32.62	9.50%
	4000	\$454.37	\$497.13	\$42.76	9.41%
	5000	\$565.34	\$618.23	\$52.89	9.36%
	250	\$42.02	\$47.34	\$5.32	12.66%
	300	\$48.32	\$54.25	\$5.94	12.29%
	400	\$60.91	\$68.09	\$7.18	11.78%
	500	\$73.51	\$81.92	\$8.41	11.45%
	600	\$86.10	\$95.76	\$9.65	11.21%
SUMMER	675	\$95.55	\$106.13	\$10.58	11.07%
	750	\$105.00	\$116.51	\$11.51	10.96%
	1000	\$136.49	\$151.09	\$14.60	10.70%
	1500	\$199.47	\$220.26	\$20.80	10.43%
	2000	\$262.44	\$289.43	\$26.99	10.28%
	3000	\$388.40	\$427.77	\$39.37	10.14%
	4000	\$514.36	\$566.11	\$51.75	10.06%
	5000	\$640.32	\$704.45	\$64.13	10.02%
	250	\$39.52	\$44.46	\$4.94	12.51%
	300	\$45.32	\$50.81	\$5.49	12.11%
	400	\$56.91	\$63.49	\$6.58	11.55%
	500	\$68.51	\$76.17	\$7.66	11.19%
	600	\$80.11	\$88.86	\$8.75	10.93%
AVERAGE	675	\$88.80	\$98.37	\$9.57	10.78%
MONTHLY	750	\$97.50	\$107.88	\$10.38	10.65%
	1000	\$126.49	\$139.60	\$13.11	10.36%
	1500	\$184.47	\$203.02	\$18.55	10.05%
	2000	\$242.45	\$266.44	\$23.99	9.89%
	3000	\$358.41	\$393.28	\$34.87	9.73%
	4000	\$474.37	\$520.12	\$45.75	9.65%
	5000	\$590.33	\$646.97	\$56.64	9.59%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 17 of 26

RESIDENTIAL SERVICE - SPACE HEATING (Underground) - A03

	Energy	Monthly Bill		Increase	
	in kWh	Present	Ordered	Amount	Percent
	250	\$34.72	\$37.80	\$3.08	8.87%
	300	\$39.16	\$42.41	\$3.25	8.31%
	400	\$48.03	\$51.63	\$3.60	7.49%
	500	\$56.91	\$60.84	\$3.94	6.92%
	600	\$65.78	\$70.06	\$4.28	6.51%
WINTER	675	\$72.44	\$76.98	\$4.54	6.27%
	750	\$79.09	\$83.89	\$4.80	6.07%
	1000	\$101.28	\$106.94	\$5.66	5.58%
	1500	\$145.66	\$153.03	\$7.37	5.06%
	2000	\$190.03	\$199.12	\$9.09	4.78%
	3000	\$278.78	\$291.31	\$12.52	4.49%
	4000	\$367.53	\$383.49	\$15.96	4.34%
	5000	\$456.29	\$475.68	\$19.39	4.25%
	250	\$44.02	\$49.34	\$5.32	12.08%
	300	\$50.32	\$56.25	\$5.94	11.80%
	400	\$62.91	\$70.09	\$7.18	11.41%
	500	\$75.51	\$83.92	\$8.41	11.14%
	600	\$88.10	\$97.76	\$9.65	10.96%
SUMMER	675	\$97.55	\$108.13	\$10.58	10.85%
	750	\$107.00	\$118.51	\$11.51	10.76%
	1000	\$138.49	\$153.09	\$14.60	10.55%
	1500	\$201.47	\$222.26	\$20.80	10.32%
	2000	\$264.44	\$291.43	\$26.99	10.21%
	3000	\$390.40	\$429.77	\$39.37	10.08%
	4000	\$516.36	\$568.11	\$51.75	10.02%
	5000	\$642.32	\$706.45	\$64.13	9.98%
	050	Ф0 7 00	044.05	#0.00	40.400/
	250	\$37.82	\$41.65	\$3.83	10.12%
	300	\$42.88	\$47.02	\$4.15 \$4.70	9.67%
	400	\$52.99	\$57.78	\$4.79	9.04%
	500	\$63.11	\$68.54	\$5.43	8.61%
A) (ED A OE	600	\$73.22	\$79.29	\$6.07	8.29%
AVERAGE	675	\$80.81	\$87.36	\$6.55	8.11%
MONTHLY	750	\$88.39	\$95.43	\$7.03	7.96%
	1000	\$113.68	\$122.32	\$8.64	7.60%
	1500	\$164.26	\$176.11	\$11.85	7.21%
	2000	\$214.84	\$229.89	\$15.06	7.01%
	3000	\$315.99	\$337.46	\$21.47	6.80%
	4000	\$417.14	\$445.03	\$27.89	6.69%
	5000	\$518.30	\$552.60	\$34.30	6.62%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 18 of 26

RESIDENTIAL TIME OF DAY SERVICE (Overhead) - A02

	Energy	Monthl	v Bill	Incre	ase
	in kWh	Present	Ordered	Amount	Percent
			0.00100	7 04111	. 5.5611
	250	\$37.47	\$42.20	\$4.73	12.63%
	300	\$42.85	\$48.09	\$5.24	12.22%
	400	\$53.63	\$59.87	\$6.24	11.64%
	500	\$64.40	\$71.65	\$7.24	11.25%
	600	\$75.18	\$83.43	\$8.25	10.97%
WINTER	675	\$83.26	\$92.26	\$9.00	10.81%
VVIINTLIX	750	\$91.34	\$101.10	\$9.75	10.61%
	1000	\$118.28	\$101.10 \$130.54	\$12.27	10.37%
	1500	\$172.15	\$189.44	\$17.29	10.04%
	2000	\$226.03	\$248.33	\$22.31	9.87%
	3000	\$333.77	\$366.12	\$32.35	9.69%
	4000	\$441.52	\$483.91	\$42.39	9.60%
	5000	\$549.27	\$601.71	\$52.44	9.55%
		0.11.00	040.04	# 5.04	10 700/
	250	\$41.00	\$46.24	\$5.24	12.79%
	300	\$47.09	\$52.94	\$5.85	12.42%
	400	\$59.28	\$66.34	\$7.06	11.90%
	500	\$71.47	\$79.73	\$8.27	11.57%
	600	\$83.65	\$93.13	\$9.47	11.33%
SUMMER	675	\$92.80	\$103.18	\$10.38	11.19%
	750	\$101.94	\$113.22	\$11.29	11.07%
	1000	\$132.40	\$146.71	\$14.31	10.81%
	1500	\$193.34	\$213.69	\$20.35	10.53%
	2000	\$254.28	\$280.67	\$26.39	10.38%
	3000	\$376.15	\$414.63	\$38.48	10.23%
	4000	\$498.03	\$548.59	\$50.57	10.15%
	5000	\$619.90	\$682.55	\$62.65	10.11%
	250	\$38.64	\$43.55	\$4.90	12.69%
	300	\$44.27	\$49.71	\$5.44	12.29%
	400	\$55.51	\$62.02	\$6.51	11.73%
	500	\$66.76	\$74.34	\$7.58	11.36%
	600	\$78.00	\$86.66	\$8.66	11.10%
AVERAGE	675	\$86.44	\$95.90	\$9.46	10.95%
MONTHLY	750	\$94.87	\$105.14	\$10.27	10.82%
	1000	\$122.99	\$135.93	\$12.95	10.53%
	1500	\$179.21	\$197.52	\$18.31	10.22%
	2000	\$235.44	\$259.11	\$23.67	10.05%
	3000	\$347.90	\$382.29	\$34.39	9.89%
	4000	\$460.36	\$505.47	\$45.12	9.80%
	5000	\$572.81	\$628.65	\$55.84	9.75%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 19 of 26

RESIDENTIAL TIME OF DAY SERVICE - SPACE HEATING (Overhead) - A02

	Energy	Month	ly Bill	Incre	ease
	in kWh	Present	Ordered	Amount	Percent
			0.00.00	7	. 0.00
	250	\$34.62	\$37.72	\$3.11	8.97%
	300	\$39.04	\$42.32	\$3.28	8.41%
	400	\$47.87	\$51.50	\$3.63	7.59%
	500	\$56.71	\$60.69	\$3.99	7.03%
	600	\$65.54	\$69.88	\$4.34	6.62%
WINTER	675	\$72.17	\$76.77	\$4.60	6.38%
	750	\$78.79	\$83.66	\$4.87	6.18%
	1000	\$100.88	\$106.63	\$5.75	5.70%
	1500	\$145.06	\$152.57	\$7.52	5.18%
	2000	\$189.23	\$198.51	\$9.28	4.90%
	3000	\$277.58	\$290.39	\$12.81	4.62%
	4000	\$365.93	\$382.27	\$16.34	4.47%
	5000	\$454.28	\$474.15	\$19.87	4.37%
	3000	ψ+0+.20	ψ+7+.10	ψ13.07	4.07 70
	250	\$43.00	\$48.24	\$5.24	12.20%
	300	\$49.09	\$54.94	\$5.85	11.91%
	400	\$61.28	\$68.34	\$7.06	11.52%
	500	\$73.47	\$81.73	\$8.27	11.25%
	600	\$85.65	\$95.13	\$9.47	11.06%
SUMMER	675	\$94.80	\$105.18	\$10.38	10.95%
JOIVIIVILIX	750	\$103.94	\$115.22	\$11.29	10.86%
	1000	\$134.40	\$148.71	\$14.31	10.65%
	1500	\$195.34	\$215.69	\$20.35	10.42%
	2000	\$256.28	\$282.67	\$26.39	10.30%
	3000	\$378.15	\$416.63	\$38.48	10.30 %
	4000	\$500.03	\$550.59	\$50.57	10.10%
	5000	\$621.90	\$684.55	\$62.65	10.11%
	3000	Ψ021.90	ψ004.55	Ψ02.03	10.07 /6
	250	\$37.41	\$41.23	\$3.82	10.21%
	300	\$42.39	\$46.52	\$4.14	9.76%
	400	\$52.34	\$57.12	\$4.78	9.12%
	500	\$62.29	\$67.71	\$5.41	8.69%
	600	\$72.25	\$78.30	\$6.05	8.38%
AVERAGE	675	\$79.71	\$86.24	\$6.53	8.19%
MONTHLY	750	\$87.17	\$94.18	\$7.01	8.04%
WONTHE	1000	\$112.06	\$120.66	\$8.60	7.68%
	1500	\$161.82	\$173.61	\$11.79	7.29%
	2000	\$211.58	\$226.57	\$14.99	7.29%
	3000	\$311.11	\$332.47	\$21.37	6.87%
	4000	\$410.63	\$438.38	\$27.75	6.76%
	5000	\$510.16	\$544.29	\$34.13	6.69%
	3000	φυ τυ. το	ψJ 44 .∠9	φυ4.13	0.05%

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 7 Page 20 of 26

SMALL GENERAL SERVICE

	Energy	Monthl	y Bill	Incre	ease
	in kWh	Present	Ordered	Amount	Percent
	250	\$37.14	\$40.24	\$3.10	8.36%
	300	\$42.42	\$45.71	\$3.29	7.75%
	400	\$52.99	\$56.64	\$3.65	6.89%
	500	\$63.56	\$67.58	\$4.02	6.32%
WINTER	600	\$74.13	\$78.51	\$4.38	5.91%
	750	\$89.99	\$94.91	\$4.93	5.47%
	1000	\$116.41	\$122.25	\$5.84	5.01%
	1500	\$169.26	\$176.92	\$7.66	4.53%
	2000	\$222.11	\$231.59	\$9.48	4.27%
	3000	\$327.81	\$340.94	\$13.13	4.00%
	4000	\$433.52	\$450.28	\$16.77	3.87%
	5000	\$539.22	\$559.63	\$20.41	3.79%
	250	\$40.90	\$44.55	\$3.66	8.94%
	300	\$46.93	\$50.88	\$3.95	8.42%
	400	\$59.01	\$63.54	\$4.54	7.69%
	500	\$71.08	\$76.20	\$5.12	7.21%
SUMMER	600	\$83.15	\$88.86	\$5.71	6.86%
	750	\$101.27	\$107.85	\$6.59	6.50%
	1000	\$131.45	\$139.50	\$8.05	6.12%
	1500	\$191.82	\$202.80	\$10.98	5.72%
	2000	\$252.19	\$266.10	\$13.91	5.51%
	3000	\$372.93	\$392.70	\$19.77	5.30%
	4000	\$493.68	\$519.30	\$25.62	5.19%
	5000	\$614.42	\$645.90	\$31.48	5.12%
		400.00	*	40.00	0.==0/
	250	\$38.39	\$41.68	\$3.29	8.57%
	300	\$43.92	\$47.43	\$3.51	7.99%
	400	\$55.00	\$58.94	\$3.95	7.17%
	500	\$66.07	\$70.45	\$4.38	6.64%
AVERAGE	600	\$77.14	\$81.96	\$4.82	6.25%
MONTHLY	750	\$93.75	\$99.23	\$5.48	5.85%
	1000	\$121.42	\$128.00	\$6.57	5.41%
	1500	\$176.78	\$185.55	\$8.77	4.96%
	2000	\$232.14	\$243.10	\$10.96	4.72%
	3000	\$342.85	\$358.19	\$15.34	4.47%
	4000	\$453.57	\$473.29	\$19.72	4.35%
	5000	\$564.28	\$588.39	\$24.10	4.27%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 21 of 26

GENERAL SERVICE (Secondary Voltage)

Demand	Energy		Month	nly Bill	Incre	ease
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		-			•	
15	3,000	200	\$388.89	\$410.86	\$21.97	5.65%
15	6,000	400	\$570.02	\$604.15	\$34.13	5.99%
15	9,000	600	\$709.15	\$750.64	\$41.49	5.85%
25	5,000	200	\$629.57	\$666.29	\$36.72	5.83%
25	10,000	400	\$931.45	\$988.43	\$56.99	6.12%
25	15,000	600	\$1,163.33	\$1,232.58	\$69.26	5.95%
50	10,000	200	\$1,231.26	\$1,304.85	\$73.59	5.98%
50	20,000	400	\$1,835.02	\$1,949.15	\$114.13	6.22%
50	30,000	600	\$2,298.78	\$2,437.45	\$138.67	6.03%
75	15,000	200	\$1,832.95	\$1,943.42	\$110.47	6.03%
75	30,000	400	\$2,738.59	\$2,909.86	\$171.28	6.25%
75	45,000	600	\$3,434.22	\$3,642.31	\$208.09	6.06%
100	20,000	200	\$2,434.64	\$2,581.98	\$147.34	6.05%
100	40,000	400	\$3,642.16	\$3,870.58	\$228.42	6.27%
100	60,000	600	\$4,569.67	\$4,847.17	\$277.50	6.07%
200	40,000	200	\$4,841.40	\$5,136.25	\$294.84	6.09%
200	80,000	400	\$7,256.44	\$7,713.44	\$457.00	6.30%
200	120,000	600	\$9,111.47	\$9,666.63	\$555.16	6.09%
300	60,000	200	\$7,248.17	\$7,690.51	\$442.34	6.10%
300	120,000	400	\$10,870.71	\$11,556.29	\$685.58	6.31%
300	180,000	600	\$13,653.26	\$14,486.08	\$832.82	6.10%
400	80,000	200	\$9,654.93	\$10,244.77	\$589.84	6.11%
400	160,000	400	\$14,484.99	\$15,399.15	\$914.16	6.31%
400	240,000	600	\$18,195.05	\$19,305.54	\$1,110.48	6.10%
500	100,000	200	\$12,061.69	\$12,799.03	\$737.34	6.11%
500	200,000	400	\$18,099.27	\$19,242.01	\$1,142.74	6.31%
500	300,000	600	\$22,736.84	\$24,124.99	\$1,388.14	6.11%
750	150,000	200	\$18,078.60	\$19,184.69	\$1,106.09	6.12%
750	300,000	400	\$27,134.96	\$28,849.16	\$1,714.19	6.32%
750	450,000	600	\$34,091.33	\$36,173.62	\$2,082.30	6.11%
1,000	200,000	200	\$24,095.50	\$25,570.34	\$1,474.84	6.12%
1,000	400,000	400	\$36,170.66	\$38,456.30	\$2,285.65	6.32%
1,000	600,000	600	\$45,445.81	\$48,222.26	\$2,776.45	6.11%

Docket No. E002/GR-15-826
Exhibit No. ____(SVH-1)
Schedule 7
Page 22 of 26

GENERAL SERVICE (Primary Voltage)

Demand	Energy		Monthly Bill		Incre	ease
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
15	3,000	200	\$372.60	\$395.63	\$23.02	6.18%
15	6,000	400	\$550.94	\$585.68	\$34.74	6.31%
15	9,000	600	\$687.28	\$728.94	\$41.66	6.06%
25	5,000	200	\$602.42	\$640.90	\$38.48	6.39%
25	10,000	400	\$899.65	\$957.65	\$58.01	6.45%
25	15,000	600	\$1,126.88	\$1,196.41	\$69.54	6.17%
50	10,000	200	\$1,176.96	\$1,254.07	\$77.11	6.55%
50	20,000	400	\$1,771.42	\$1,887.59	\$116.17	6.56%
50	30,000	600	\$2,225.88	\$2,365.11	\$139.23	6.26%
75	15,000	200	\$1,751.50	\$1,867.25	\$115.75	6.61%
75	30,000	400	\$2,643.19	\$2,817.52	\$174.34	6.60%
75	45,000	600	\$3,324.87	\$3,533.80	\$208.93	6.28%
100	20,000	200	\$2,326.04	\$2,480.42	\$154.38	6.64%
100	40,000	400	\$3,514.96	\$3,747.46	\$232.50	6.61%
100	60,000	600	\$4,423.87	\$4,702.49	\$278.62	6.30%
200	40,000	200	\$4,624.20	\$4,933.13	\$308.92	6.68%
200	80,000	400	\$7,002.04	\$7,467.20	\$465.16	6.64%
200	120,000	600	\$8,819.87	\$9,377.27	\$557.40	6.32%
300	60,000	200	\$6,922.37	\$7,385.83	\$463.46	6.70%
300	120,000	400	\$10,489.11	\$11,186.93	\$697.82	6.65%
300	180,000	600	\$13,215.86	\$14,052.04	\$836.18	6.33%
400	80,000	200	\$9,220.53	\$9,838.53	\$618.00	6.70%
400	160,000	400	\$13,976.19	\$14,906.67	\$930.48	6.66%
400	240,000	600	\$17,611.85	\$18,726.82	\$1,114.96	6.33%
500	100,000	200	\$11,518.69	\$12,291.23	\$772.54	6.71%
500	200,000	400	\$17,463.27	\$18,626.41	\$1,163.14	6.66%
500	300,000	600	\$22,007.84	\$23,401.59	\$1,393.74	6.33%
750	150,000	200	\$17,264.10	\$18,422.99	\$1,158.89	6.71%
750	300,000	400	\$26,180.96	\$27,925.76	\$1,744.79	6.66%
750	450,000	600	\$32,997.83	\$35,088.52	\$2,090.70	6.34%
1,000	200,000	200	\$23,009.50	\$24,554.74	\$1,545.24	6.72%
1,000	400,000	400	\$34,898.66	\$37,225.10	\$2,326.45	6.67%
1,000	600,000	600	\$43,987.81	\$46,775.46	\$2,787.65	6.34%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 23 of 26

GENERAL TOD SERVICE (Secondary Voltage)

Demand	Energy		Monthly Bill		Incre	
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		-			•	
15	3,000	200	\$389.68	\$412.22	\$22.54	5.78%
15	6,000	400	\$567.59	\$602.87	\$35.28	6.22%
15	9,000	600	\$703.50	\$746.72	\$43.22	6.14%
25	5,000	200	\$628.21	\$665.88	\$37.67	6.00%
25	10,000	400	\$924.73	\$983.63	\$58.90	6.37%
25	15,000	600	\$1,151.25	\$1,223.38	\$72.13	6.27%
50	10,000	200	\$1,224.54	\$1,300.05	\$75.51	6.17%
50	20,000	400	\$1,817.58	\$1,935.54	\$117.97	6.49%
50	30,000	600	\$2,270.61	\$2,415.04	\$144.43	6.36%
75	15,000	200	\$1,820.87	\$1,934.21	\$113.34	6.22%
75	30,000	400	\$2,710.43	\$2,887.46	\$177.03	6.53%
75	45,000	600	\$3,389.98	\$3,606.70	\$216.72	6.39%
100	20,000	200	\$2,417.20	\$2,568.38	\$151.18	6.25%
100	40,000	400	\$3,603.27	\$3,839.37	\$236.09	6.55%
100	60,000	600	\$4,509.35	\$4,798.36	\$289.01	6.41%
200	40,000	200	\$4,802.52	\$5,105.03	\$302.51	6.30%
200	80,000	400	\$7,174.67	\$7,647.02	\$472.35	6.58%
200	120,000	600	\$8,986.81	\$9,565.00	\$578.18	6.43%
300	60,000	200	\$7,187.84	\$7,641.69	\$453.85	6.31%
300	120,000	400	\$10,746.06	\$11,454.66	\$708.60	6.59%
300	180,000	600	\$13,464.28	\$14,331.63	\$867.35	6.44%
500	100,000	200	\$11,958.48	\$12,715.01	\$756.53	6.33%
500	200,000	400	\$17,888.85	\$19,069.96	\$1,181.11	6.60%
500	300,000	600	\$22,419.21	\$23,864.91	\$1,445.70	6.45%
1,000	200,000	200	\$23,885.08	\$25,398.29	\$1,513.21	6.34%
1,000	400,000	400	\$35,745.81	\$38,108.20	\$2,362.38	6.61%
1,000	600,000	600	\$44,806.55	\$47,698.10	\$2,891.55	6.45%
3,000	600,000	200	\$71,591.48	\$76,131.43	\$4,539.95	6.34%
3,000	1,200,000	400	\$107,173.68	\$114,261.15	\$7,087.47	6.61%
3,000	1,800,000	600	\$134,355.88	\$143,030.86	\$8,674.98	6.46%
5,000	1,000,000	200	\$119,297.89	\$126,864.58	\$7,566.69	6.34%
5,000	2,000,000	400	\$178,601.55	\$190,414.10	\$11,812.55	6.61%
5,000	3,000,000	600	\$223,905.22	\$238,363.62	\$14,458.41	6.46%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 24 of 26

GENERAL TOD SERVICE (Primary Voltage)

Demand	Energy	ſ	Monthly Bill		Incre	ease
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
					•	
15	3,000	200	\$373.39	\$396.98	\$23.60	6.32%
15	6,000	400	\$548.51	\$584.40	\$35.89	6.54%
15	9,000	600	\$681.63	\$725.01	\$43.38	6.36%
25	5,000	200	\$601.06	\$640.49	\$39.43	6.56%
25	10,000	400	\$892.93	\$952.85	\$59.92	6.71%
25	15,000	600	\$1,114.80	\$1,187.21	\$72.41	6.50%
50	10,000	200	\$1,170.24	\$1,249.27	\$79.03	6.75%
50	20,000	400	\$1,753.98	\$1,873.98	\$120.01	6.84%
50	30,000	600	\$2,197.71	\$2,342.70	\$144.99	6.60%
75	15,000	200	\$1,739.42	\$1,858.04	\$118.62	6.82%
75	30,000	400	\$2,615.03	\$2,795.12	\$180.09	6.89%
75	45,000	600	\$3,280.63	\$3,498.19	\$217.56	6.63%
100	20,000	200	\$2,308.60	\$2,466.82	\$158.22	6.85%
100	40,000	400	\$3,476.07	\$3,716.25	\$240.17	6.91%
100	60,000	600	\$4,363.55	\$4,653.68	\$290.13	6.65%
200	40,000	200	\$4,585.32	\$4,901.91	\$316.59	6.90%
200	80,000	400	\$6,920.27	\$7,400.78	\$480.51	6.94%
200	120,000	600	\$8,695.21	\$9,275.64	\$580.42	6.68%
300	60,000	200	\$6,862.04	\$7,337.01	\$474.97	6.92%
300	120,000	400	\$10,364.46	\$11,085.30	\$720.84	6.95%
300	180,000	600	\$13,026.88	\$13,897.59	\$870.71	6.68%
500	100,000	200	\$11,415.48	\$12,207.21	\$791.73	6.94%
500	200,000	400	\$17,252.85	\$18,454.36	\$1,201.51	6.96%
500	300,000	600	\$21,690.21	\$23,141.51	\$1,451.30	6.69%
1,000	200,000	200	\$22,799.08	\$24,382.69	\$1,583.61	6.95%
1,000	400,000	400	\$34,473.81	\$36,877.00	\$2,403.18	6.97%
1,000	600,000	600	\$43,348.55	\$46,251.30	\$2,902.75	6.70%
3,000	600,000	200	\$68,333.48	\$73,084.63	\$4,751.15	6.95%
3,000	1,200,000	400	\$103,357.68	\$110,567.55	\$7,209.87	6.98%
3,000	1,800,000	600	\$129,981.88	\$138,690.46	\$8,708.58	6.70%
5,000	1,000,000	200	\$113,867.89	\$121,786.58	\$7,918.69	6.95%
5,000	2,000,000	400	\$172,241.55	\$184,258.10	\$12,016.55	6.98%
5,000	3,000,000	600	\$216,615.22	\$231,129.62	\$14,514.41	6.70%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 25 of 26

GENERAL TOD SERVICE (Transmission Transformed Voltage)

Demand	Energy		Monthly Bill		Incre	ease
in kW	in kWh	Hours	Present	Ordered	Amount	Percent
		_		•		
15	3,000	200	\$357.47	\$380.73	\$23.27	6.51%
15	6,000	400	\$527.17	\$563.15	\$35.98	6.83%
15	9,000	600	\$654.87	\$698.76	\$43.89	6.70%
25	5,000	200	\$574.53	\$613.41	\$38.88	6.77%
25	10,000	400	\$857.36	\$917.43	\$60.07	7.01%
25	15,000	600	\$1,070.19	\$1,143.45	\$73.26	6.85%
50	10,000	200	\$1,117.17	\$1,195.10	\$77.93	6.98%
50	20,000	400	\$1,682.84	\$1,803.14	\$120.31	7.15%
50	30,000	600	\$2,108.50	\$2,255.19	\$146.69	6.96%
75	15,000	200	\$1,659.82	\$1,776.79	\$116.97	7.05%
75	30,000	400	\$2,508.32	\$2,688.86	\$180.54	7.20%
75	45,000	600	\$3,146.82	\$3,366.92	\$220.11	6.99%
100	20,000	200	\$2,202.46	\$2,358.48	\$156.02	7.08%
100	40,000	400	\$3,333.79	\$3,574.57	\$240.77	7.22%
100	60,000	600	\$4,185.13	\$4,478.66	\$293.53	7.01%
200	40,000	200	\$4,373.04	\$4,685.23	\$312.19	7.14%
200	80,000	400	\$6,635.71	\$7,117.42	\$481.71	7.26%
200	120,000	600	\$8,338.37	\$8,925.60	\$587.22	7.04%
300	60,000	200	\$6,543.62	\$7,011.99	\$468.37	7.16%
300	120,000	400	\$9,937.62	\$10,660.26	\$722.64	7.27%
300	180,000	600	\$12,491.62	\$13,372.53	\$880.91	7.05%
500	100,000	200	\$10,884.78	\$11,665.51	\$780.73	7.17%
500	200,000	400	\$16,541.45	\$17,745.96	\$1,204.51	7.28%
500	300,000	600	\$20,798.11	\$22,266.41	\$1,468.30	7.06%
1,000	200,000	200	\$21,737.68	\$23,299.29	\$1,561.61	7.18%
1,000	400,000	400	\$33,051.01	\$35,460.20	\$2,409.18	7.29%
1,000	600,000	600	\$41,564.35	\$44,501.10	\$2,936.75	7.07%
3,000	600,000	200	\$65,149.28	\$69,834.43	\$4,685.15	7.19%
3,000	1,200,000	400	\$99,089.28	\$106,317.15	\$7,227.87	7.29%
3,000	1,800,000	600	\$124,629.28	\$133,439.86	\$8,810.58	7.07%
5,000	1,000,000	200	\$108,560.89	\$116,369.58	\$7,808.69	7.19%
5,000	2,000,000	400	\$165,127.55	\$177,174.10	\$12,046.55	7.30%
5,000	3,000,000	600	\$207,694.22	\$222,378.62	\$14,684.41	7.07%

Docket No. E002/GR-15-826
Exhibit No. _____(SVH-1)
Schedule 7
Page 26 of 26

GENERAL TOD SERVICE (Transmission Voltage)

In kW In kWh Hours Present Ordered Amount Percent	Demand	Energy		Monthly Bill		Incre	ease
15 6,000 400 \$514.55 \$550.54 \$35.99 6.99% 15 9,000 600 \$641.94 \$685.84 \$43.90 6.84% 25 5,000 200 \$554.01 \$592.90 \$38.89 7.02% 25 10,000 400 \$836.33 \$896.41 \$60.08 7.18% 25 15,000 600 \$1,048.65 \$1,121.92 \$73.28 6.99% 50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 4	in kW	in kWh	Hours	Present	Ordered	Amount	Percent
15 6,000 400 \$514.55 \$550.54 \$35.99 6.99% 15 9,000 600 \$641.94 \$688.84 \$43.90 6.84% 25 5,000 200 \$554.01 \$592.90 \$38.89 7.02% 25 10,000 400 \$836.33 \$896.41 \$60.08 7.18% 25 15,000 600 \$1,048.65 \$1,121.92 \$73.28 6.99% 50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 4			_				
15 9,000 600 \$641.94 \$685.84 \$43.90 6.84% 25 5,000 200 \$554.01 \$592.90 \$38.89 7.02% 25 10,000 400 \$836.33 \$896.41 \$60.08 7.18% 25 15,000 600 \$1,048.65 \$1,121.92 \$73.28 6.99% 50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 45,000 600 \$2,445.23 \$2,625.80 \$180.57 7.14% 100 20,000 20 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 40 \$3,249.67 \$3,490.49 <t>\$240.81 7.41% <</t>	15	3,000	200	\$345.16	\$368.43	\$23.27	6.74%
25 5,000 200 \$554.01 \$592.90 \$38.89 7.02% 25 10,000 400 \$836.33 \$896.41 \$60.08 7.18% 25 15,000 600 \$1,048.65 \$1,121.92 \$73.28 6.99% 50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 20 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 \$4,208.92 \$4,521.15 \$312.23 7.42% 200	15	6,000	400	\$514.55	\$550.54	\$35.99	6.99%
25 10,000 400 \$836.33 \$896.41 \$60.08 7.18% 25 15,000 600 \$1,048.65 \$1,121.92 \$73.28 6.99% 50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,265.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 20 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 40 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 \$4,098.95 \$4,392.54 \$293.59 7.16% 200<	15	9,000	600	\$641.94	\$685.84	\$43.90	6.84%
25 15,000 600 \$1,048.65 \$1,121.92 \$73.28 6.99% 50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 200 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 \$0 \$4,298.92 \$4,521.15 \$312.23 7.42% 200 40,000 20 \$4,208.92 \$4,521.15 \$312.23 7.45% <td>25</td> <td>5,000</td> <td>200</td> <td>\$554.01</td> <td>\$592.90</td> <td>\$38.89</td> <td>7.02%</td>	25	5,000	200	\$554.01	\$592.90	\$38.89	7.02%
50 10,000 200 \$1,076.14 \$1,154.08 \$77.94 7.24% 50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 20 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 40 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 20 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 40 \$6,467.47 \$6,949.26 \$481.79 7.45% <td>25</td> <td>10,000</td> <td>400</td> <td>\$836.33</td> <td>\$896.41</td> <td>\$60.08</td> <td>7.18%</td>	25	10,000	400	\$836.33	\$896.41	\$60.08	7.18%
50 20,000 400 \$1,640.78 \$1,761.10 \$120.33 7.33% 50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 200 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19%	25	15,000	600	\$1,048.65	\$1,121.92	\$73.28	6.99%
50 30,000 600 \$2,065.41 \$2,212.13 \$146.72 7.10% 75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 200 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% <td>50</td> <td>10,000</td> <td>200</td> <td>\$1,076.14</td> <td>\$1,154.08</td> <td>\$77.94</td> <td>7.24%</td>	50	10,000	200	\$1,076.14	\$1,154.08	\$77.94	7.24%
75 15,000 200 \$1,598.27 \$1,715.26 \$116.99 7.32% 75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 200 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% </td <td>50</td> <td>20,000</td> <td>400</td> <td>\$1,640.78</td> <td>\$1,761.10</td> <td>\$120.33</td> <td>7.33%</td>	50	20,000	400	\$1,640.78	\$1,761.10	\$120.33	7.33%
75 30,000 400 \$2,445.23 \$2,625.80 \$180.57 7.38% 75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 200 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 20 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20%	50	30,000	600	\$2,065.41	\$2,212.13	\$146.72	7.10%
75 45,000 600 \$3,082.18 \$3,302.33 \$220.15 7.14% 100 20,000 200 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83	75	15,000	200	\$1,598.27	\$1,715.26	\$116.99	7.32%
100 20,000 \$2,120.40 \$2,276.44 \$156.04 7.36% 100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47%	75	30,000	400	\$2,445.23	\$2,625.80	\$180.57	7.38%
100 40,000 400 \$3,249.67 \$3,490.49 \$240.81 7.41% 100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60	75	45,000	600	\$3,082.18	\$3,302.33	\$220.15	7.14%
100 60,000 600 \$4,098.95 \$4,392.54 \$293.59 7.16% 200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81	100	20,000	200	\$2,120.40	\$2,276.44	\$156.04	7.36%
200 40,000 200 \$4,208.92 \$4,521.15 \$312.23 7.42% 200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2	100	40,000	400	\$3,249.67	\$3,490.49	\$240.81	7.41%
200 80,000 400 \$6,467.47 \$6,949.26 \$481.79 7.45% 200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90	100	60,000	600	\$4,098.95	\$4,392.54	\$293.59	7.16%
200 120,000 600 \$8,166.01 \$8,753.36 \$587.34 7.19% 300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23	200	40,000	200	\$4,208.92	\$4,521.15	\$312.23	7.42%
300 60,000 200 \$6,297.44 \$6,765.87 \$468.43 7.44% 300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794	200	80,000	400	\$6,467.47	\$6,949.26	\$481.79	7.45%
300 120,000 400 \$9,685.26 \$10,408.02 \$722.76 7.46% 300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 5,000 1,000,000 200 \$104,457.89 <	200	120,000	600	\$8,166.01	\$8,753.36	\$587.34	7.19%
300 180,000 600 \$12,233.08 \$13,114.17 \$881.09 7.20% 500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89	300	60,000	200	\$6,297.44	\$6,765.87	\$468.43	7.44%
500 100,000 200 \$10,474.48 \$11,255.31 \$780.83 7.45% 500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.	300	120,000	400	\$9,685.26	\$10,408.02	\$722.76	7.46%
500 200,000 400 \$16,120.85 \$17,325.56 \$1,204.71 7.47% 500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	300	180,000	600	\$12,233.08	\$13,114.17	\$881.09	7.20%
500 300,000 600 \$20,367.21 \$21,835.81 \$1,468.60 7.21% 1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	500	100,000	200	\$10,474.48	\$11,255.31	\$780.83	7.45%
1,000 200,000 200 \$20,917.08 \$22,478.89 \$1,561.81 7.47% 1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	500	200,000	400	\$16,120.85	\$17,325.56	\$1,204.71	7.47%
1,000 400,000 400 \$32,209.81 \$34,619.40 \$2,409.58 7.48% 1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	500	300,000	600	\$20,367.21	\$21,835.81	\$1,468.60	7.21%
1,000 600,000 600 \$40,702.55 \$43,639.90 \$2,937.35 7.22% 3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	1,000	200,000	200	\$20,917.08	\$22,478.89	\$1,561.81	7.47%
3,000 600,000 200 \$62,687.48 \$67,373.23 \$4,685.75 7.47% 3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	1,000	400,000	400	\$32,209.81	\$34,619.40	\$2,409.58	7.48%
3,000 1,200,000 400 \$96,565.68 \$103,794.75 \$7,229.07 7.49% 3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	1,000	600,000	600	\$40,702.55	\$43,639.90	\$2,937.35	7.22%
3,000 1,800,000 600 \$122,043.88 \$130,856.26 \$8,812.38 7.22% 5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	3,000	600,000	200	\$62,687.48	\$67,373.23	\$4,685.75	7.47%
5,000 1,000,000 200 \$104,457.89 \$112,267.58 \$7,809.69 7.48% 5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	3,000	1,200,000	400	\$96,565.68	\$103,794.75	\$7,229.07	7.49%
5,000 2,000,000 400 \$160,921.55 \$172,970.10 \$12,048.55 7.49%	3,000	1,800,000	600	\$122,043.88	\$130,856.26	\$8,812.38	7.22%
	5,000	1,000,000	200	\$104,457.89	\$112,267.58	\$7,809.69	7.48%
5,000 3,000,000 600 \$203,385.22 \$218,072.62 \$14,687.41 7.22%	5,000	2,000,000	400	\$160,921.55	\$172,970.10	\$12,048.55	7.49%
	5,000	3,000,000	600	\$203,385.22	\$218,072.62	\$14,687.41	7.22%

Northern States Power Company Electric Utility - Minnesota

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 8 Page 1 of 2

VOLTAGE DISCOUNT ANALYSIS Demand Charge

	CCOSS - Page 2			Transmission		
	Distribution Cost - 2016	Secondary	Primary	Transformed	Total	
1	Sec - Line 35	\$12,961			\$12,961	
2	Pri - Line 34	\$35,122	\$8,374		\$43,496	
3	Sub - Line 33	\$35,905	\$10,003	\$5,062	\$50,970	
4	Total	\$83,988	\$18,377	\$5,062	\$107,426	
	Distribution Cost - 2017				_	
5	Sec - Line 35	\$14,507			\$14,507	
6	Pri - Line 34	\$38,200	\$9,112		\$47,312	
7	Sub - Line 33	\$38,158	\$10,617	\$5,337	\$54,112	
8	Total	\$90,865	\$19,729	\$5,337	\$115,931	
	Billing KW					
9	Sec	40,687			40,687	
10	Pri	40,687	8,746		49,432	
11	Sub	40,687	8,746	4,298	53,730	
	Losses					
12	Sec	1.0000				
13	Pri	1.0207	1.0000			
14	Sub	1.0368	1.0157	1.0000		
	Billing KW with Losses					
15	Sec	40,687			40,687	
16	Pri	41,529	8,746		50,274	
17	Sub	42,184	8,883	4,298	55,365	
	Cost per kW - 2016					
18	Sec (1) / (15)	\$0.32			\$0.32	(a)
19	Pri (2) / (16)	\$0.86	\$0.96		\$0.87	(b)
20	Sub (3) / (17)	\$0.88	\$1.14	\$1.18	\$0.92	(c)
	Cost per kW - 2017			-		
21	Sec (5) / (15)	\$0.36			\$0.36	(a)
	Pri (6) / (16)	\$0.92	\$1.04		\$0.94	(b)
23	Sub (7) / (17)	\$0.90	\$1.20	\$1.24	\$0.98	(c)
De	mand Voltage Discoun	2016 Cost	2017 Cost	Present	Proposed	
Pı	rimary (a)	\$0.32	\$0.36	\$0.90	\$0.80	
T	r Transformed (a) + (b)	\$1.18	\$1.30	\$1.60	\$1.55	
T	ransmission (a) + (b) + (\$2.10	\$2.28	\$2.40	\$2.35	

Northern States Power Company Electric Utility - Minnesota

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 8 Page 2 of 2

VOLTAGE DISCOUNT ANALYSIS Energy Charge

			Transmission			
		Secondary	Primary Tra	insformed Tra	ınsmission	
1	E8760 Losses	7.90%	6.19%	3.82%	3.68%	
2	Percent Difference	0.00%	1.71%	4.07%	4.22%	
3	Prior Percent Difference		1.56%	4.62%	4.80%	
4	Percent Difference - Max or Ave		1.71%	4.35%	4.51%	
	Proposed General Service - per	kWh				
3	Base Energy and Fuel - 2016	6.261 ¢	6.154 ¢	5.989 ¢	5.979 ¢	
4	Base Energy and Fuel - 2017	6.316 ¢	6.208 ¢	6.042 ¢	6.031 ¢	
	Energy Voltage Discount - per	kWh				
5	Discount from Secondary - 2016		0.107 ¢	0.272 ¢	0.282 ¢	
6	Discount from Secondary - 2017		0.108 ¢	0.274 ¢	0.285 ¢	

Northern States Power Company Electric Utility - Minnesota Test Year Ending December 31, 2016

Fuel Clause Rider - Fuel Adjustment Factor Calculation

Docket No. E002/GR-15-826 Exhibit No. _____(SVH-1) Schedule 9 Page 1 of 1

			SERVICE CATEGORY					
			C&I		C&I		Outdoor	
1		Residential	Non-Dmd		Demand		Lighting	RETAIL
	STEP 1: CLASS RATIOS							
1.	Hourly Marginal Energy Costs x Hourly Loads*	\$249,889,994	\$27,516,998		\$589,461,215)	\$4,063,485	\$870,931,692
2.	MWh Energy at Generator	9,311,287	1,012,644		22,511,097	7	193,193	33,028,220
3.	Load-Weighted Marginal Energy Cost /MWh =(1)/(2)	\$26.837	\$27.173		\$26.185	;	\$21.033	\$26.369
4.	Class Ratio (Class Unit Cost / Retail Unit Cost)	1.0177	1.0305		0.9930		0.7976	1.0000
	STEP 2: C&I DEMAND TOD RATIOS							
				Non-TOD	On-Peak	Off-Peak		
5.	Ratio of On-Peak to Off-Peak System Weighted Margina	ıl Energy Costs			1.529			
6.	C&I Demand Class Time-of-Day Percentages from 8760	loads			0.4083	0.5917		
7.	C&I Demand TOD On-Peak Ratio = 1 / (0.4083 + (0.5)	917 / 1.529)) **			1.2574			
8.	C&I Demand TOD Off-Peak Ratio = 1 / ((1.529 x 0.408	83) + 0.5917)) **	<			0.8224		
9.	C&I Demand Non-TOD On-Peak Weighting			0.4206				
10.	C&I Demand Non-TOD Off-Peak Weighting			0.5794				
11.	C&I Demand Non-TOD Ratio = (0.4206 x 1.2574) + (0.4206 x 1.2574)	0.5794 x 0.8224)		1.0054				
	STEP 3: FUEL ADJUSTMENT FACTOR							
12.	FAF = Step 1, or for C&I Demand, Step 1 x Step 2	1.0177	1.0305	0.9984	1.2486	0.8166	0.7976	
		(4)	(4)	(4) x (11)	(4) x (7)	(4) x (8)	(4)	

^{*} E8760 Allocator = Sum of Hourly System Marginal Costs times Hourly Class Loads

^{**} Based on C&I Demand Weighted Average = (40.83% class on-peak x on-peak charge) + (59.17% class off-peak x off-peak charge)

Rate Design Discovery - 2016 TY Electric Rate Case Index of Appendix Items

Page	Subject	Docket E002/GR-13-868 Reference
2	General TOD Energy Charge Analysis	DOC IR 305
3	Energy Charge Credit Analysis	DOC IR 306
4	All Residential Customer Usage Under and Over 600 kWh	Ex. (SVH-1) Appendix A (1)
5	LIHEAP Customer Usage Under and Over 600 kWh	Ex. (SVH-1) Appendix A (2)
6	Non-LIHEAP Customer Usage Under and Over 600 kWh	Ex. (SVH-1) Appendix A (3)
7	Residential Bill Frequency - LIHEAP and Non-LIHEAP Customers Year Ending December 2014	OAG IR 602
8	Residential Bill Frequency - LIHEAP and Non-LIHEAP Customers Year Ending July 2015	OAG IR 602

Notes:

- (1) Based on Docket No. E002/GR-12-961, DOC IR 305
- (2) Based on Docket No. E002/GR-12-961, DOC IR 306
- (3) Based on Docket No. E002/GR-12-961, DOC IR 307

General Time of Day Service Proposed Energy Charge Development

Input Variables:

Proposed General Service Energy Charge	3.564¢	Std
C&I-Demand Class On-Peak Sales Percent	40.83%	On
C&I-Demand Class Off-Peak Sales Percent	59.17%	Off
TOD On-Peak Percent	39.81%	
TOD Off-Peak Percent	60.19%	
Non-TOD (Std) On-Peak Percent	42.37%	
Non-TOD (Std) Off-Peak Percent	57.63%	
Base Energy Rate Ratio: On-Peak to Off-Peak	2.074	Ratio
Fuel Cost Ratio: On-Peak to Off-Peak	1.529	ARatio
TOD_On =1/(Class On%+Class Off%/Ratio)	1.4418	TOD_On
TOD_Off =1/(Ratio*Class On%+Class Off%)	0.6952	TOD_Off
Std_Ratio = TOD_On x Std On% + TOD_Off x Std Off%	1.0115	StdRatio

TOD Energy Rates Calculation:

Std Rate = On Rate x Std On% + Off Rate x Std Off%	3.564¢
On Rate = Off Rate x Ratio	5.079¢
Std Rate = Off Rate x Ratio x Std On% + Off Rate x Std Off%	3.564¢
Std Rate = Off Rate x (Ratio x Std On% + Std Off%)	3.564¢
Off Rate = Std Rate / (Ratio x Std On% + Std Off%)	2.449¢
Off Rate = Std Rate / (Ratio x Std On% + Std Off%)	2.449¢
Off Rate = (Std Rate / Std_Ratio) / (Ratio x Class On% + Class Off%)	2.449¢
On Rate = Off Rate x Ratio	5.080¢

TOD Energy Charges using Proposed Summer Ratio: Off Rate = $(3.564 \text{ ft} / 1.0115) / (2.074 \times 40.83\% \pm 59.17\%)$

Off Rate = (3.564¢ / 1.0115) / (2.074 x 40.83% + 59.17%) =	2.449¢
On Rate = 2.253¢ x 2.007 =	5.079¢
Ratio Test =	2.074
Weighted Average Rate Test =	3.564¢

Energy Charge Credit Comparison

TY2016

Energy Charge Credit (ECC)		
Comparison as Percent of Energy Charge and Fuel Cos	t	
	<u>Present</u>	Proposed
General Service Energy Charge	3.201¢	3.564¢
C&I-Demand Non-TOD Fuel Cost	2.722¢	<u>2.710¢</u>
Total Base Energy and Fuel Cost	5.923¢	6.274¢
Energy Charge Credit (ECC)	1.400¢	1.560¢
ECC % Base Energy	44%	44%
ECC % Base Energy and Fuel Cost	24%	25%

Class Cost of Service Study - 2016		
C&I-Demand - Secondary Voltage		
MWH Sales	14,695,446	
Revenue Requirement	Amount	Cost/kWh
Energy	\$809,255	5.507¢
Energy-related Capacity	<u>\$118,057</u>	<u>0.803¢</u>
Total Energy Related	\$927,313	6.310¢

ECC Average Cost per kWh	
C&I-Demand ECC MWH w/o RTP	2,974,313
C&I-Demand Total MWH w/o RTP	20,992,838
Percent ECC MWH	14.17%
Proposed ECC Rate	1.560¢
ECC Cost per kWh (%ECC x ECC Rate)	0.221¢

All C&I-Demand Average Fuel Cost	2.682¢
----------------------------------	--------

General Service										
Proposed Energy Charge Cost										
Energy Related Cost per kWh	6.310¢									
plus ECC Cost	0.221¢									
less Fuel Cost	-2.682¢									
Base Energy Rate Cost	3.849¢									

Capacity Energy Cost vs. Average ECC per kWh at 100% Load Factor												
	Secondary	All Demand										
Energy Cost/kWh	5.507¢	5.405¢										
Capacity Energy/kWh	<u>0.803¢</u>	<u>0.787¢</u>										
Total Energy/kWh	6.310¢	6.192¢										
ECC Hours Use	400	400										
Average 100% Load Factor Hours	730	730										
Qualifying ECC Hours at 100% LF	330	330										
ECC Percent Hours at 100% Load Factor	45%	45%										
Proposed ECC	1.560¢	1.560¢										
Average ECC at 100% LF (ECC x 45%)	0.705¢	0.705¢										
Ave ECC at 100% LF as % of Capacity Cost	87.8%	89.6%										

Docket No. E002/GR-15-826 Exhibit____(SVH-1), Appendix A

	Standard Service without Electric Space Heating							Electric Space Heating Only							With and without Electric Space Heating					
	All Usage Usage < 600 kWh			00 kWh	Usage >=	600 kWh	All Us	age	Usage < 600 kWh		Usage >= 600 kWh		All Usage		Usage < 600 kWh		Usage >= 600 kWh			
		Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH		
ALL Custor	ners	•		·				•		·				·		·				
Jan-14	1,049,371	864	467,972	338	581,399	1,287	28,796	2,287	3,194	344	25,602	2,529	1,078,167	902	471,166	338	607,001	1,340		
Feb-14	965,292	722	522,404	334	442,888	1,179	25,533	1,990	3,566	353	21,967	2,255	990,825	754	525,970	334	464,855	1,230		
Mar-14	1,051,063	697	591,537	330	459,526	1,169	28,970	1,836	5,028	352	23,942	2,148	1,080,033	728	596,565	331	483,468	1,218		
Apr-14	1,051,763	580	681,976	322	369,787	1,056	29,021	1,207	9,341	348	19,680	1,614	1,080,784	597	691,317	322	389,467	1,084		
May-14	1,009,474	521	698,744	318	310,730	976	27,563	845	12,955	330	14,608	1,302	1,037,037	529	711,699	318	325,338	991		
Jun-14	1,052,321	665	588,854	333	463,467	1,087	29,149	744	15,369	322	13,780	1,215	1,081,470	667	604,223	333	477,247	1,091		
Jul-14	1,052,668	789	474,605	341	578,063	1,157	29,109	774	14,870	324	14,239	1,244	1,081,777	788	489,475	340	592,302	1,159		
Aug-14	1,012,875	781	451,377	342	561,498	1,133	28,701	757	14,765	324	13,936	1,216	1,041,576	780	466,142	342	575,434	1,135		
Sep-14	1,055,170	737	517,640	339	537,530	1,121	29,330	745	15,413	323	13,917	1,213	1,084,500	738	533,053	338	551,447	1,124		
Oct-14	1,055,315	551	696,793	325	358,522	989	29,304	698	16,264	324	13,040	1,165	1,084,619	555	713,057	325	371,562	995		
Nov-14	966,954	557	635,914	325	331,040	1,002	27,524	1,008	10,430	352	17,094	1,408	994,478	569	646,344	325	348,134	1,022		
Dec-14	1,009,743	721	528,044	336	481,699	1,143	27,747	1,661	4,966	356	22,781	1,945	1,037,490	746	533,010	336	504,480	1,179		
Jan-15	1,055,303	763	522,357	336	532,946	1,181	29,578	1,832	4,495	354	25,083	2,097	1,084,881	792	526,852	336	558,029	1,222		
Feb-15	973,737	649	574,620	330	399,117	1,108	26,880	1,631	5,066	358	21,814	1,927	1,000,617	675	579,686	330	420,931	1,150		
Mar-15	1,057,379	676	615,445	328	441,934	1,160	29,817	1,697	6,216	352	23,601	2,051	1,087,196	704	621,661	328	465,535	1,206		
Apr-15	1,058,061	537	724,403	317	333,658	1,015	29,819	992	12,210	341	17,609	1,444	1,087,880	550	736,613	317	351,267	1,036		
May-15	1,004,851	488	731,129	313	273,722	958	28,433	691	15,925	318	12,508	1,165	1,033,284	494	747,054	313	286,230	967		
Jun-15	1,060,474	614	645,365	326	415,109	1,063	29,965	699	17,016	315	12,949	1,202	1,090,439	617	662,381	325	428,058	1,067		
Jul-15	1,058,297	778	478,005	341	580,292	1,137	29,787	774	15,155	326	14,632	1,239	1,088,084	778	493,160	341	594,924	1,140		
YE Dec-14	12,332,009	683	6,855,860	331	5,476,149	1,123	340,747	1,204	126,161	332	214,586	1,717	12,672,756	697	6,982,021	331	5,690,735	1,145		
YE Jul-15	12,368,159	655	7,121,092	328	5,247,067	1,098	346,885	1,095	137,921	330	208,964	1,599	12,715,044	667	7,259,013	329	5,456,031	1,117		

	Standa	ard Servi	ce without	Electric	Space Hea	iting	Electric Space Heating Only							With and without Electric Space Heating					
	All Usage Usage < 600 kV		00 kWh	Wh Usage >= 600 kWh		All Us	sage	Usage < 6	600 kWh	Usage >= 600 kWh		All Usage		Usage < 600 kWh		Usage >= 600 kWh			
	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	
LIHEAP Cus	stomers		·		·		•		•		•				·		-		
Jan-14	64,075	789	31,907	352	32,168	1,222	3,120	2,222	229	373	2,891	2,368	67,195	855	32,136	352	35,059	1,317	
Feb-14	60,318	683	34,756	339	25,562	1,152	2,729	2,016	228	367	2,501	2,167	63,047	741	34,984	339	28,063	1,242	
Mar-14	64,122	656	38,519	333	25,603	1,141	3,136	1,798	420	375	2,716	2,018	67,258	709	38,939	334	28,319	1,225	
Apr-14	63,880	542	43,817	323	20,063	1,021	3,124	1,172	876	367	2,248	1,485	67,004	571	44,693	323	22,311	1,068	
May-14	61,566	479	45,271	318	16,295	924	2,846	807	1,311	352	1,535	1,197	64,412	493	46,582	319	17,830	948	
Jun-14	62,692	568	40,019	338	22,673	974	3,044	612	1,856	325	1,188	1,061	65,736	570	41,875	337	23,861	978	
Jul-14	61,839	684	32,607	351	29,232	1,057	2,972	605	1,827	317	1,145	1,063	64,811	681	34,434	349	30,377	1,057	
Aug-14	57,649	678	29,951	353	27,698	1,030	2,840	596	1,729	316	1,111	1,034	60,489	674	31,680	351	28,809	1,030	
Sep-14	60,120	651	33,476	347	26,644	1,033	2,863	601	1,748	314	1,115	1,050	62,983	649	35,224	345	27,759	1,033	
Oct-14	56,477	499	40,244	324	16,233	935	2,746	616	1,680	323	1,066	1,078	59,223	505	41,924	324	17,299	944	
Nov-14	49,952	499	35,801	322	14,151	947	2,535	944	976	367	1,559	1,305	52,487	521	36,777	323	15,710	982	
Dec-14	55,509	653	32,347	342	23,162	1,089	2,638	1,643	340	393	2,298	1,828	58,147	698	32,687	342	25,460	1,155	
Jan-15	57,370	693	31,772	346	25,598	1,123	2,905	1,762	340	378	2,565	1,945	60,275	744	32,112	346	28,163	1,198	
Feb-15	52,070	592	33,521	328	18,549	1,068	2,671	1,563	392	379	2,279	1,767	54,741	639	33,913	329	20,828	1,145	
Mar-15	57,336	651	35,173	328	22,163	1,165	2,907	1,667	495	372	2,412	1,933	60,243	700	35,668	328	24,575	1,240	
Apr-15	57,013	498	41,372	316	15,641	980	2,877	930	1,141	352	1,736	1,310	59,890	518	42,513	317	17,377	1,013	
May-15	54,443	440	42,219	311	12,224	887	2,775	621	1,626	319	1,149	1,049	57,218	449	43,845	311	13,373	901	
Jun-15	55,857	522	38,557	326	17,300	956	2,801	564	1,825	308	976	1,042	58,658	524	40,382	326	18,276	961	
Jul-15	55,109	662	29,789	349	25,320	1,031	2,768	603	1,713	315	1,055	1,070	57,877	659	31,502	347	26,375	1,033	
YE Dec-14	718,199	617	438,715	335	279,484	1,060	34,593	1,142	13,220	334	21,373	1,642	752,792	642	451,935	335	300,857	1,102	
YE Jul-15	668,905	588	424,222	331	244,683	1,034	33,326	1,009	14,005	329	19,321	1,501	702,231	608	438,227	331	264,004	1,068	

Docket No. E002/GR-15-826 Exhibit____(SVH-1), Appendix A

	Standa	rd Servic	e without	Electric S	Space Hea	ting		Elect	ric Space	Heating (Only	With and without Electric Space Heating						
	All Usa	All Usage Usage < 600 kWh Usage >= 600 kWh			600 kWh	All Us	age	Usage < 600 kWh		Usage >= 600 kWh		All Usage		Usage < 600 kWh		Usage >= 600 kWh		
	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH	Customers	Ave/KWH
Non-LIHEA	P Customer	S													RSHLICust		RSHLICust	
Jan-14	985,296	869	436,065	337	549,231	1,291	25,676	2,295	2,965	342	22,711	2,550	1,010,972	905	439,030	337	571,942	1,341
Feb-14	904,974	724	487,648	333	417,326	1,181	22,804	1,986	3,338	352	19,466	2,267	927,778	755	490,986	333	436,792	1,229
Mar-14	986,941	700	553,018	330	433,923	1,171	25,834	1,841	4,608	349	21,226	2,164	1,012,775	729	557,626	330	455,149	1,217
Apr-14	987,883	582	638,159	322	349,724	1,058	25,897	1,211	8,465	346	17,432	1,631	1,013,780	598	646,624	322	367,156	1,085
May-14	947,908	523	653,473	318	294,435	979	24,717	850	11,644	328	13,073	1,314	972,625	532	665,117	318	307,508	993
Jun-14	989,629	671	548,835	333	440,794	1,093	26,105	759	13,513	321	12,592	1,229	1,015,734	674	562,348	332	453,386	1,097
Jul-14	990,829	795	441,998	340	548,831	1,162	26,137	793	13,043	325	13,094	1,260	1,016,966	795	455,041	340	561,925	1,164
Aug-14	955,226	787	421,426	341	533,800	1,138	25,861	774	13,036	325	12,825	1,232	981,087	786	434,462	341	546,625	1,141
Sep-14	995,050	743	484,164	338	510,886	1,126	26,467	761	13,665	324	12,802	1,227	1,021,517	743	497,829	338	523,688	1,128
Oct-14	998,838	554	656,549	325	342,289	992	26,558	707	14,584	324	11,974	1,173	1,025,396	558	671,133	325	354,263	998
Nov-14	917,002	560	600,113	325	316,889	1,005	24,989	1,014	9,454	350	15,535	1,419	941,991	572	609,567	325	332,424	1,024
Dec-14	954,234	725	495,697	336	458,537	1,145	25,109	1,662	4,626	353	20,483	1,958	979,343	749	500,323	336	479,020	1,180
Jan-15	997,933	767	490,585	336	507,348	1,184	26,673	1,840	4,155	352	22,518	2,114	1,024,606	795	494,740	336	529,866	1,224
Feb-15	921,667	652	541,099	330	380,568	1,109	24,209	1,639	4,674	356	19,535	1,946	945,876	677	545,773	330	400,103	1,150
Mar-15	1,000,043	677	580,272	328	419,771	1,160	26,910	1,700	5,721	350	21,189	2,065	1,026,953	704	585,993	328	440,960	1,204
Apr-15	1,001,048	539	683,031	317	318,017	1,017	26,942	999	11,069	340	15,873	1,459	1,027,990	551	694,100	317	333,890	1,038
May-15	950,408	491	688,910	313	261,498	961	25,658	698	14,299	317	11,359	1,177	976,066	497	703,209	313	272,857	970
Jun-15	1,004,617	619	606,808	326	397,809	1,068	27,164	712	15,191	316	11,973	1,215	1,031,781	622	621,999	325	409,782	1,072
Jul-15	1,003,188	784	448,216	341	554,972	1,142	27,019	792	13,442	327	13,577	1,252	1,030,207	784	461,658	341	568,549	1,144
YE Dec-14	11,613,810	687	6,417,145	330	5,196,665	1,126	306,154	1,211	112,941	332	193,213	1,725	11,919,964	700	6,530,086	330	5,389,878	1,148
YE Jul-15	11,699,254	659	6,696,870	328	5,002,384	1,101	313,559	1,104	123,916	331	189,643	1,609	12,012,813	670	6,820,786	328	5,192,027	1,120



