Allocation of Revenues TCJA Settlement - Docket GE17-003

TCJA Base
Pro Forma 2017 Excluding Riders Revenue Decrease

	Pro Forma 2017 Excluding Riders			Revenue Decrease			
Customer Class	Customers	Kwh	KW	Total Revenue	Change	Total	%
Residential Service	6,899	66,391,840		\$6,803,236	(\$39,237)	\$6,763,999	-0.6%
Small General Service	2,002	31,532,744	98,548.4	3,238,595	(17,183)	3,221,412	-0.5%
Large General Service	118	35,630,597	146,049.7	2,951,157	(16,034)	2,935,123	-0.5%
General Space Heating	144	5,713,526		325,219	(2,059)	323,160	-0.6%
Municipal Lighting	54	2,477,817		235,782	(1,342)	234,440	-0.6%
Municipal Pumping	50	1,482,823	7,173.1	118,807	(561)	118,246	-0.5%
Outdoor Lighting Service	559	807,360		70,628	(371)	70,257	-0.5%
Total South Dakota Electric	9,826	144,036,707	251,771.2	\$13,743,424	(\$76,787)	\$13,666,637	-0.6%

Allocation of Revenues TCJA Settlement - Docket GE17-003

Pro Forma 2017

	Excl	uding Transmis	sion & Infra	structure Ride	rs	Allocation	_		Design R	esults	Autthorized	EL15-024
	Bill			Total		of Revenue	Percent	Revenue C	hange		Total	
Rate Class	Determinants	Kwh	KW	Revenue	Ratio	Change 1/	Increase	\$	%	Total	Revenue	Ratio
Residential Service												
Rate 10	6,559	60,900,758	0.0	\$6,470,683	48.501%	(\$37,064)	-0.57%	(\$37,150)	-0.57%	\$6,433,533	\$7,070,007	48.501%
Rate 53	340	5,491,082	0.0	332,553	2.761%	(2,110)	-0.63%	(2,087)	-0.63%	330,466	402,451	2.761%
Total Residential	6,899	66,391,840	0.0	6,803,236	51.262%	(39,174)	-0.58%	(39,237)	-0.58%	6,763,999	7,472,458	51.262%
Small General Service												
Rate 20 Primary	1	3,300	0.0	472	0.004%	(3)	-0.64%	(2)	-0.42%	470	647	0.004%
Rate 20 Secondary	1,970	31,139,613	96,959.0	3,205,431	22.603%	(17,273)	-0.54%	(17,126)	-0.53%	3,188,305	3,294,958	22.603%
Subtotal	1,971	31,142,913	96,959.0	3,205,903	22.607%	(17,276)	-0.54%	(17,128)	-0.53%	3,188,775	3,295,605	22.607%
Rate 25	7	258,048	1,460.6	17,566	0.054%	(41)	-0.23%	(41)	-0.23%	17,525	7,903	0.054%
Rate 26	24	131,783	128.8	15,126	0.016%	(12)	-0.08%	(14)	-0.09%	15,112	2,261	0.016%
Total Small General	2,002	31,532,744	98,548.4	3,238,595	22.677%	(17,329)	-0.54%	(17,183)	-0.53%	3,221,412	3,305,769	22.677%
Large General Rate 30	118	35,630,597	146,049.7	2,951,157	20.811%	(15,904)	-0.54%	(16,034)	-0.54%	2,935,123	3,033,724	20.811%
Space Heating Rate 32	144	5,713,526	0.0	325,219	2.307%	(1,763)	-0.54%	(2,059)	-0.63%	323,160	336,349	2.307%
Municipal Lighting	54	2,477,817	0.0	235,782	1.727%	(1,320)	-0.56%	(1,342)	-0.57%	234,440	251,777	1.727%
Rate 48 Municipal Pumping	50	1,482,823	7,173.1	118,807	0.725%	(554)	-0.47%	(561)	-0.47%	118,246	105,708	0.725%
Rate 24 Outdoor Lighting Service	559	807,360	0.0	70,628	0.491%	(375)	-0.53%	(371)	-0.53%	70,257	71,568	0.491%
Total South Dakota Electric	9,826	144,036,707	251,771.2	\$13,743,424	100.000%	(\$76,419)	-0.56%	(\$76,787)	-0.56%	\$13,666,637	\$14,577,353	100.000%

^{1/} TCJA decrease calculated in accordance with Settlement Stipulation approved in Docket No. GE17-003
Allocation based on revenue allocation authorized in EL15-024.

(\$76,419)

Derivation of Rate and Reconciliation Residential Electric Service - Rate 10 TCJA Settlement - Docket GE17-003

	Pro Forma	Authorized EL15-024		Proposed Settlement Rates		
Residential Service	2017	Rate	Revenue	Rate	Revenue	
Basic Service Charge Basic Service Charge rate 95	6,559 1	\$0.247 per day \$0.050 per day	\$591,327 18 \$591,345	\$0.247 per day \$0.050 per day	\$591,327 18 \$591,345	
Energy						
Summer	18,244,434 18,244,434	\$0.07923 per Kwh	1,445,507 1,445,507	\$0.07862 per Kwh	1,434,377 1,434,377	
Winter First 750 Over 750	26,557,514 16,098,810 42,656,324	\$0.07923 per Kwh \$0.04923 per Kwh	2,104,152 792,544 2,896,696	\$0.07862 per Kwh 0.04862 per Kwh	2,087,952 782,724 2,870,676	
Total Energy	60,900,758		4,342,203		4,305,053	
Transmission Rider	60,900,758	\$0.00438 per Kwh	266,745	\$0.00438 per Kwh	266,745	
Infrastructure Rider	60,900,758	\$0.00497 per Kwh	302,677	\$0.00497 per Kwh	302,677	
Base Fuel	60,900,758	\$0.02524 per Kwh	1,537,135	\$0.02524 per Kwh	1,537,135	
Total Rate 10 Total Excluding Riders Total Revenues Per Design Target Revenues Difference			\$7,040,105 \$6,470,683		\$7,002,955 \$6,433,533 \$6,433,533 \$6,433,619 (\$86)	

Pro Forma Revenues Excluding Riders Pro Forma Revenue Increase Total Revenue Requirement				\$6,470,683 (37,064) \$6,433,619
Less:				
Proposed Basic Service Charge Revenu	ies			591,345
Base Fuel				1,537,135
Winter >750 differential	(\$0.03000)	16,098,810	Kwh	(482,964)
Subtotal				1,645,516
Net to be Collected Through Energy				\$4,788,103
Total Kwh				60,900,758
Summer Rate Per Kwh				\$0.07862
Winter Rate Per Kwh - 1st 750				\$0.07862
Winter Over 750 Kwh				\$0.04862

Derivation of Rate and Reconciliation Residential Electric Service Rate 53 TCJA Settlement - Docket GE17-003

	Pro Forma Authorized EL15-024		Proposed Settlement Rates		
Residential Service	2017	Rate	Revenue	Rate	Revenue
Basic Service Charge	340	\$0.247 per day	\$30,653	\$0.247 per day	\$30,653
Energy	5,491,082	\$0.02974 per Kwh	163,305	\$0.02936 per Kwh	161,218
Base Fuel	5,491,082	\$0.02524 per Kwh	138,595	\$0.02524 per Kwh	138,595
Transmission Rider	5,491,082	\$0.00438 per Kwh	24,051	\$0.00438 per Kwh	24,051
Infrastructure Rider	5,491,082	\$0.00497 per Kwh	27,291	\$0.00497 per Kwh	27,291
Total Rate 53			\$383,895		\$381,808
Total Excluding Riders			\$332,553		\$330,466
Total Revenues Per Design					\$330,466
Target Revenues					\$330,443
Difference					\$23
Derivation of Rate:			_		
Pro Forma Revenues			\$332,553		
Pro Forma Revenue Increase			(2,110)		
Total Revenue Requiremen	nt		\$330,443		
Less:	_				
Proposed Basic Service Cha Projected Base Fuel	irge Kevenues		30,653 138,595		
Subtotal			169,248		
Net to be Collected Through	Energy		\$161,195		
Total Kwh			5,491,082		

\$0.02936

Energy Rate per KW

Derivation of Rate and Reconciliation Residential Electric TOD Service Rate 16 TCJA Settlement - Docket GE17-003

Based on a	Sample of	of Rate 10	Authorized	Billing	Units
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		Authorized EL	Proposed	nt Rates		
Residential Service	Billing Units	Rate	Revenue	Rate		Revenue
Basic Service Charge	286	\$0.55 per day	\$57,415	\$0.55 pe	er day	\$57,415
Energy Summer						
On-Peak Kwh	507,507	0.11919 per Kwh	60,490	0.11745 pe	er Kwh	59,607
Off Peak Kwh	655,646	0.05500 per Kwh	36,061	0.05500 pe	er Kwh	36,061
Subtotal	1,163,153	·		•		
Winter						
On-Peak Kwh	775,025	0.08919 per Kwh	69,124	0.08745 pe	er Kwh	67,776
Off Peak Kwh	1,400,956	0.05500 per Kwh	77,053	0.05500 pe	er Kwh	77,053
Subtotal	2,175,981					
Total Energy	3,339,134					
Base Fuel	3,339,134	0.02524 per Kwh	84,280	0.02524 p€	er Kwh	84,280
Total Rate 16 Revenues			\$384,423			\$382,192
Total Hato To Hovellage			ψου 1, 120			ΨουΣ, τοΣ
Reduction @ Residenita	l Decrease		(\$2,230)			
Total Revenues Per Des Target Revenues Difference	sign					\$382,192 382,193 (\$1)

Pro Forma Revenues Pro Forma Revenue Increase Total Revenue Requirement	t		Projected \$384,423 (2,230) \$382,193
Less: Basic Service Charge Base Fuel Off Peak set equal to Summer On-Peak Differ	\$0.055 \$0.030	2,056,602 507,507	\$57,415 84,280 113,113 15,225 270,033
Net to be Collected Through E	energy		\$112,160
Total On-Peak Kwh			1,282,532
Winter On-Peak Rate Summer On-Peak			\$0.08745 \$0.11745

MONTANA-DAKOTA UTILITIES CO.

Derivation of Rate and Reconciliation Small General Electric Service Rate 20 TCJA Settlement - Docket GE17-003

	Pro Forma	Authorized EL15-024		Proposed Settlement Rates			
Small General Service	2017	Ra		Revenue	Rate		Revenue
Basic Service Charge							
Primary (201)	1	\$0.51	per day	\$186	\$0.51	per day	\$186
Secondary	1,970	0.54	per day	388,287	0.54	per day	388,287
Total Basic Service Charge	1,971			388,473			388,473
Energy							
Primary (201)		•					
Summer	1,418	\$0.06142	per Kwh	87	\$0.06087	per Kwh	86
Winter							
First 2000	1,882	\$0.06142	per Kwh	116	0.06087	per Kwh	115
Over 2000	0	\$0.04142	per Kwh	0	0.04087	per Kwh	0
	1,882			116			115
Primary Energy	3,300			203			201
Secondary							
Summer	10,643,810	\$0.06242	per Kwh	664,387	0.06187	per Kwh	658,533
Winter							
First 2000	11,376,023	\$0.06242	per Kwh	710,091	0.06187	per Kwh	703,835
Over 2000	9,119,780	\$0.04242	per Kwh	386,861	0.04187	per Kwh	381,845
	20,495,803			1,096,952			1,085,680
Secondary Energy	31,139,613			1,761,339			1,744,213
Total Energy	31,142,913			1,761,542			1,744,414
Demand							
Primary (201)							
First 10 KW	0.0	\$0.00	per KW	0	\$0.00	per KW	0
Over 10 KW	0.0	6.00	per KW	0	6.00	per KW	0
Total	0.0			0			0
Secondary							
First 10 KW	51,985.5		per KW	0		per KW	0
Over 10 KW	44,973.5	6.00	per KW	269,841	6.00	per KW	269,841
Total	96,959.0			269,841			269,841
Total Demand	96,959.0			269,841			269,841
Base Fuel- Primary	3,300	\$0.02524	ner Kwh	83	\$0.02524	ner Kwh	83
Base Fuel- Secondary	31,139,613	\$0.02524		785,964	\$0.02524		785,964
•				•			·
Transmission Rider	31,142,913	\$0.00438	per Kwh	136,406	\$0.00438	per Kwh	136,406
Infrastructure Rider	31,142,913	\$0.00497	ner Kwh	154,780	\$0.00497	per Kwh	154,780
doi.dotaro riido.	0.,2,0.0	ψ0.00.00.	po	,	ψοίου ίσι	po	,
Total Rate 20 Revenues				\$3,497,089		_	\$3,479,961
Total Excluding Riders				\$3,205,903		=	\$3,188,775
Target Revenues							3,188,627
Difference						_	\$148
						=	<u> </u>
						Primary	\$470
						Secondary _	\$3,188,305
							\$3,188,775

MONTANA-DAKOTA UTILITIES CO.

Derivation of Rate and Reconciliation Small General Electric Service Rate 20 TCJA Settlement - Docket GE17-003

Pro Forma Revenues Excluding R Pro Forma Revenue Increase Total Revenue Requirement	Riders		\$3,205,903 (17,276) \$3,188,627
Less: Proposed Basic Service Charge F Proposed Demand Charge Rever Base Fuel Over 2,000 Winter differential Secondary Rate Differential Subtotal		9,119,780 31,139,613	388,473 269,841 786,047 (182,396) 31,140 1,293,105
Net to be Collected			\$1,895,522
Total Kwh			31,142,913
Summer Primary Rate per Kwh Winter Primary Rate 1st 2000 Kw Winter Primary over 2000 Kwh Summer Secondary Rate per Kwh Winter Secondary Rate 1st 2000 Winter Secondary over 2000 kwh	1		0.06087 0.06087 0.04087 0.06187 0.06187 0.04187

Derivation of Rate and Reconciliation Outdoor Lighting Service Rate 24 TCJA Settlement - Docket GE17-003

	Pro Forma	Authorized EL15-024		Proposed Settler	ment Rates	
Outdoor Lighting	2017	Rate	Revenue	Rate	Revenue	
Energy	807,360	\$0.06224 per Kwh	50,250	\$0.06178 per Kwh	\$49,879	
Base Fuel	807,360	\$0.02524 per Kwh	20,378	0.02524 per Kwh	20,378	
Transmission Rider	807,360 807,360	\$0.00438 per Kwh \$0.00497 per Kwh	3,536 4,013	\$0.00438 per Kwh \$0.00497 per Kwh	3,536 4,013	
Total Revenue Total Excluding Riders	007,000	ф0.00407 рег кип	\$78,177 \$70,628	political political	\$77,806	
Total Revenues Per Design Target Revenues Difference					\$70,257 \$70,253 \$4	

Pro Forma Revenues Excluding Riders Pro Forma Revenue Increase Total Revenue Requirement	\$70,628 (375) \$70,253
Less: Projected Base Fuel Subtotal	20,378 20,378
Net to be Collected Through Energy	49,875
Total Kwh Sales	807,360
Proposed Energy Charge	\$0.06178

Derivation of Rate and Reconciliation Irrigation Power Service Rate 25 TCJA Settlement - Docket GE17-003

	Pro Forma	А	uthorized EL	15-024	Propos	Proposed Settlement Rat		
Irrigation Power Service	2017	Rate		Revenue	Rate)	Revenue	
Basic Service Charge	7	\$0.53	per day	\$1,354	\$0.53	per day	\$1,354	
Energy	258,048	\$0.0138	per Kwh	3,561	\$0.01364	per Kwh	3,520	
Demand Summer Winter	994.3 466.3		per KW per KW	4,972 1,166		per KW per KW	4,972 1,166	
Base Fuel	258,048	\$0.02524	per Kwh	6,513	\$0.02524	per Kwh	6,513	
Transmission Rider	258,048	\$0.00438	per Kwh	1,130	\$0.00438	per Kwh	1,130	
Infrastructure Rider	258,048	\$0.00497	per Kwh	1,282	\$0.00497	per Kwh	1,282	
Total Revenue Total Excluding Riders				\$19,978 \$17,566			\$19,937 \$17,525	
Total Revenues Per Design Target Revenues Difference							\$17,525 17,525 \$0	

Pro Forma Revenues Excluding Riders Pro Forma Revenue Increase Total Revenue Requirement	\$17,566 (41) \$17,525
Less: Proposed Basic Service Charge Revenues Proposed Demand Charge Revenues Base Fuel Subtotal	1,354 6,138 6,513 14,005
Net to be Collected Through Energy	3,520
Total Kwh Sales	258,048
Proposed Energy Charge	\$0.01364

Derivation of Rate and Reconciliation Small General Optional Time-of-Day Electric Service Rate 26 TCJA Settlement - Docket GE17-003

Small General	Pro Forma	A	Authorized EL	15-024	Propo	sed Settleme	nt Rates
Optional TOD Service	2017	Ra		Revenue	Rat		Revenue
Basic Service Charge	_						_
Primary	0		per day	\$0 		per day	0
Secondary	24	0.65	per day	5,694	0.65	per day	5,694
F	24			5,694			5,694
Energy							
Summer Primary Service	0	0.00000		0	0.00050	a a a landa	0
Off-Peak On-Peak	0		per kwh	0		per kwh	0
	0	0.06969	per kwh	0	0.06859	per kwh	0
Total Summer	U			U			U
Winter Primary Service							
Off Peak	0	0.03969	per kwh	0	0.03859	per kwh	0
On Peak	0		per kwh	0		per kwh	0
Total Winter	0			0		p	0
	-			•			-
Summer Secondary Service							
Off-Peak	37,409	0.03969	per kwh	1,485	0.03959	per kwh	1,481
On-Peak	12,206	0.06969	per kwh	851	0.06959	per kwh	849
Total Summer	49,615			2,336			2,330
Winter Secondary Service							
Off-Peak	62,232		per kwh	2,470		per kwh	2,464
On-Peak	19,936	0.05969	per kwh	1,190	0.05959	per kwh	1,188
Total Winter	82,168			3,660			3,652
Total Energy	131,783			5,996			5,982
Demand Primary Demand On-Peak							
First 10 KW	0.0		per KW	0		per KW	0
Over 10 KW Summer	0.0		per KW	0		per KW	0
Over 10 KW Winter	0.0		per KW	0		per KW	0
Off-Peak	0.0	0.00	per KW	0	0.00	per KW	0
Total Primary Demand	0.0			0			0
Secondary Demand On-Peak							
First 10 KW	112.0		per KW	0		per KW	0
Over 10 KW Summer	11.2		per KW	81		per KW	81
Over 10 KW Winter	5.6		per KW	29		per KW	29
Off-Peak	<u> 171.7</u>	0.00	per KW	0	0.00	per KW	0
Total Secondary Demand	300.5			110			110
Total Demand	300.5			110			110
Base Fuel	131,783	0.025240	per Kwh	3,326	0.025240	per Kwh	3,326
Transmission Rider	131,783	\$0.00438	per Kwh	577	\$0.00438	per Kwh	577
Infrastructure Rider	131,783	\$0.00497	per Kwh	655	\$0.00497	per Kwh	655
Total Rate 26 Revenues				\$16,358			\$16,344
Total Excluding Riders				\$15,126			\$15,112
Total Excluding Mucis				ψ13,120			Ψ10,112
Total Revenues Per Design							\$15,112
Target Revenues							\$15,114
Difference							(\$2)
2							(ΨΖ)

Derivation of Rate and Reconciliation Small General Optional Time-of-Day Electric Service Rate 26 TCJA Settlement - Docket GE17-003

Derivation of Rate:				
Pro Forma Revenues Excluding Riders Pro Forma Revenue Increase				\$15,126 (12)
Total Revenue Requirement				\$15,114
Less:				A= 00.4
Proposed Basic Service Charge Reven	ues			\$5,694
Proposed Demand Revenues	#0.00400	404 700	IZls	110 132
Secondary Energy Differential On-Peak Summer Energy Differential	\$0.00100 0.03000	131,783		132 366
On-Peak Winter Energy	0.02000	12,206 19,936		399
Off-Peak Writter Energy Off-Peak Differential	0.02000	99.641		399
Base Fuel	0.00000	99,041	IXWII	3.326
Subtotal				10,027
Net to be Collected Through Energy				5,087
Total Kwh Sales				131,783
Proposed Energy Charges:				
Winter Primary Off-Peak				\$0.03859
Winter Primary On-Peak				0.05859
Summer Primary Off-Peak				0.03859
Summer Primary On-Peak				0.06859
Winter Secondary Off-Peak				0.03959
Winter Secondary On-Peak				0.05959
Summer Secondary Off-Peak				0.03959
Summer Secondary On-Peak				0.06959

Derivation of Rate and Reconciliation Large General Electric Service Rate 30 TCJA Settlement - Docket GE17-003

	Pro Forma	Authorized EL15-024			Proposed Settlement Rates			
Large General Service 30	2017	Ra	te	Revenue	Rate	9	Revenue	
Basic Service Charge								
Primary Service	0	\$45.00	per month	0	\$45.00	per month	0	
Secondary Service	118	30.00	per month	42,480	30.00	per month	42,480	
Total Basic Service Charge	118			42,480			42,480	
Energy								
Primary Service	0	\$0.02432	per kwh	0	\$0.02387	per kwh	0	
Secondary Service	35,630,597	0.02532	per kwh	902,167	0.02487	per kwh	886,133	
Total Energy	35,630,597			902,167			886,133	
Demand								
Primary Service - Summer	0.0		per Kw	0		per Kw	0	
Primary Service - Winter	0.0	6.25	per Kw	0	6.25	per Kw	0	
Subtotal	0.0			0			0	
Secondary Service - Summer	48,334.6	8.25	per Kw	398,760	8.25	per Kw	398,760	
Secondary Service - Winter	97,715.1	7.25	per Kw	708,434	7.25	per Kw	708,434	
Subtotal	146,049.7			1,107,194			1,107,194	
Total Demand	146,049.7			1,107,194			1,107,194	
Base Fuel	35,630,597	0.02524	per kwh	899,316	0.02524	per kwh	899,316	
Transmission Rider	35,630,597	\$0.00438	per Kwh	156,062	\$0.00438	per Kwh	156,062	
Infrastructure Rider	35,630,597	\$0.00497	per Kwh	177,084	\$0.00497	per Kwh	177,084	
Total Rate 30				\$3,284,303			\$3,268,269	
Total Excluding Riders				\$2,951,157			\$2,935,123	
Target Revenues							2,935,253	
Difference							(130)	

Pro Forma Revenues Excluding Riders Pro Forma Revenue Increase Total Revenue Requirement	-	\$2,951,157 (15,904) \$2,935,253		
Less: Proposed Basic Service Charge Revenu Proposed Demand Revenues		42,480 1,107,194		
Secondary Energy Differential Projected Base Fuel Subtotal	\$0.00100	35,630,597	Kwh -	35,631 899,316 2,084,621
Net to be Collected Through Energy			-	\$850,632
Total Kwh Sales				35,630,597
Proposed Energy Charges: Rate 30- Primary Rate 30- Secondary				\$0.02387 \$0.02487

Derivation of Rate and Reconciliation General Space Heating Service Rate 32 TCJA Settlement - Docket GE17-003

	Pro Forma	Aı	uthorized EL15	-024	Pron	osed Settleme	ent Rates
Space Heating Rate 32	2017	Ra		Revenue	Rate		Revenue
Basic Service Charge							
Primary Service							
Single Phase	0		per month	0		per month	0
Three Phase	0	25.00	per month	0	25.00	per month	0
Secondary Service	-			-			-
Single Phase	116		per month	20,880		per month	20,880
Three Phase	28_	25.00	per month	8,400	25.00	per month	8,400
Total Basic Service Charge	144 144			29,280 29,280			29,280 29,280
_				,			•
Energy Primary Service							
Summer	0	0.06142	per Kwh	0	0.06087	per Kwh	0
Winter	0		per Kwh	0		per Kwh	0
Primary Total	0		•	0			0
Secondary Service							
Summer	295,538	0.06242	per Kwh	18,447	0.06187	per Kwh	18,285
Winter	5,417,988		per Kwh	133,283		per Kwh	131,386
Secondary Total	5,713,526			151,730			149,671
Total Energy	5,713,526			151,730			149,671
Base Fuel	5,713,526	0.02524	per kwh	144,209	0.02524	per kwh	144,209
Transmission Rider	5,713,526	\$0.00438	per Kwh	25,025	\$0.00438	per Kwh	25,025
Infrastructure Rider	5,713,526	\$0.00497	per Kwh	28,396	\$0.00497	per Kwh	28,396
Total Rate 32				\$378,640			\$376,581
Total Excluding Riders				\$325,219			\$323,160
Total Revenues Per Design Target Revenues							\$323,160 323,456
Difference							(\$296)
Derivation of Rate:							
Pro Forma Revenues Excluding Rid Pro Forma Revenue Increase	lers			\$325,219			
Total Revenue Requirement				(1,763) \$323,456			
Less:							
Proposed Basic Service Charge Rev	venues			29,280			
Secondary Energy Differential	\$0.00100	5,713,526	Kwh	5,714			
Summer at Rate 20				18,285			
Projected Base Fuel				144,209			
Subtotal				197,488			
Net to be Collected Through Winter	Energy			\$125,968			
Winter Kwh Sales				5,417,988			
Proposed Energy Charges:							
Primary Winter				\$0.02325			
Secondary Winter				\$0.02425			

Derivation of Rate and Reconciliation Large General Time-of-Day Electric Service Rate 33 TCJA Settlement - Docket GE17-003

Based on a Sample of F	Rate 30 Authorized Bill	ing Units

Large Canaral	Dilling	В		mple of Rate 30 Author			ant Dates
Large General	Billing	D.	Authorized El			osed Settleme	
TOD Service (Rate 33)	Units	K	ate	Revenue	Ra	ite	Revenue
Basis Coming Charms							
Basic Service Charge	0	# 00.00		ΦO	# 00.00		C O
Primary Service	0		per month	\$0 5.040		per month	\$0 5 0 4 0
Secondary Service	7	60.00	per month	5,040	60.00	per month	5,040
Total Base Rate	7			5,040			5,040
_							
Energy							
Summer Primary Service	_			_			
Off-Peak	0		per Kwh	0		per Kwh	0
On-Peak	0	0.06200	per Kwh	0	0.06136	per Kwh	0
Total Summer	0			0			0
Winter Primary Service							
Off-Peak	0		per Kwh	0	0.03136	per Kwh	0
On-Peak	0	0.05200	per Kwh	0	0.05136	per Kwh	0
Total Winter	0			0			0
Summer Secondary Service							
Off-Peak	75,031		per Kwh	2,476		per Kwh	2,428
On-Peak	23,784	0.06300	per Kwh	1,498	0.06236	per Kwh	1,483
Total Summer	98,815			3,974			3,911
Winter Secondary Service							
Off-Peak	325,153	0.03300	per Kwh	10,730	0 02226	per Kwh	10,522
On-Peak	186,492		per Kwh	9,884		per Kwh	9,765
-		0.05500	perkwii		0.03230	perkwii	
Total Winter	511,645			20,614			20,287
Total Energy	610,460			24,588			24,198
0,	,			,			,
Demand							
Summer Primary Service							
Off-Peak	0.0		per KW	0	0.00	per KW	0
On-Peak	0.0	7.50	per KW	0	7.50	per KW	0
Total Summer Deman	0.0			0			0
Winter Drimer, Certice							
Winter Primary Service	0.0	0.00		0	0.00	1/1/1/	•
Off-Peak	0.0		per KW	0		per KW	0
On-Peak	0.0	6.00	per KW	0	6.00	per KW	0
	0.0			U			U
Summer Secondary Service							
Off-Peak	575.6	0.00	per KW	0	0.00	per KW	0
On-Peak	425.5	8.00	per KW	3,404	8.00	per KW	3,404
Total Summer Deman	1,001.1		•	3,404		•	3,404
	,			,			•
Winter Secondary Service							
Off-Peak	3,901.4	0.00	per KW	0	0.00	per KW	0
On-Peak	3,673.8		per KW	23,880		per KW	23,880
	7,575.2			23,880		•	23,880
T							·
Total Demand	8,576.3			27,284			27,284
B E I							
Base Fuel							
Secondary	610,460	0.02524	per Kwh	15,408	0.02524	per Kwh	15,408
Total Rate 33 Revenue				\$72,320			\$71,930
. Star Nato Go Moverido				Ψ12,020			Ψ11,000
Reduction @ Large General De	ocreace			(\$391)			
Reduction & Large General De	-cicase			(4381)			
Total Revenues Per Design							¢71 020
· ·							\$71,930 71,930
Target Revenues Difference							71,929
Dillerence							<u>\$1</u>

Derivation of Rate and Reconciliation Large General Time-of-Day Electric Service Rate 33 TCJA Settlement - Docket GE17-003

Based on a Sample of Rate 30 Authorized Billing Units

Derivation of Rate:		504 011 4 04	pio oi itato t	o rtation 200 Dining Ointo	
Pro Forma Revenues Excluding Riders Pro Forma Revenue Increase				\$72,320 (391)	
Total Revenue Requirement				\$71,929	
Less:					
Proposed Basic Service Charge Revenues				5,040	
Proposed Demand Revenues				27,284	
Secondary Energy Differential	\$0.00100	610,460	Kwh	610	
On-Peak Summer Energy Differential	0.03000	23,784	Kwh	714	
On-Peak Winter Energy Differential	0.02000	186,492	Kwh	3,730	
Base Fuel		•		15,408	
Subtotal				52,786	
Net to be Collected Through Energy				\$19,143	
Total Kwh Sales				610,460	
Proposed Energy Charges:					
Winter Primary Off-Peak				\$0.03136	
Winter Primary On-Peak				0.05136	
Summer Primary Off-Peak				\$0.03136	
Summer Primary On-Peak				0.06136	
Winter Secondary Off-Peak				\$0.03236	
Winter Secondary On-Peak				\$0.05236	
Summer Secondary Off-Peak				\$0.03236	
Summer Secondary On-Peak				\$0.06236	

Derivation of Rate and Reconciliation Municipal Lighting Service Rate 41 TCJA Settlement - Docket GE17-003

Municipal	Pro Forma	Autho	orized EL1	5-024	Propo	sed Settler	nent Rates
Lighting Service	2017	Rate		Revenue	Ra	ite	Revenue
Energy							
Company	27,649	\$0.07885 p	er Kwh	2,180	\$0.07825	per Kwh	2,164
Discounted	2,031,319	0.07096 p	er Kwh	144,142	0.07042	per Kwh	143,045
Municipal	49,924	0.07048 p	er Kwh	3,519	0.06988	per Kwh	3,489
Discounted	368,925	0.06343 p	er Kwh	23,401	0.06289	per Kwh	23,202
Total Energy	2,477,817			173,242			171,900
Base Fuel	2,477,817	\$0.02524 p	er Kwh	62,540	\$0.02524	per Kwh	62,540
Transmission Rider							
Accts with No Discount	77,573	\$0.00438 p	er Kwh	340	\$0.00438	ner Kwh	340
Accts with 10% Discount 1/	2,400,244	0.00394 p		9,457		per Kwh	9,457
Acces with 1070 Discount 17	2,400,244	0.00004 p	CITWII	3,437	0.00004	peritwii	5,457
Infrastructure Rider							
Accts with No Discount	77,573	\$0.00497 p	er Kwh	386	\$0.00497	per Kwh	386
Accts with 10% Discount 1/	2,400,244	0.00447 p	er Kwh	10,729	0.00447	per Kwh	10,729
Total Data 44 Dayanua				\$256.604			\$255.252
Total Rate 41 Revenue				\$256,694			\$255,352
Total Excluding Riders				\$235,782			\$234,440
Total Revenues Per Design							\$234,440
Target Revenues							\$234,462
Difference							(\$22)
Derivation of Rate:							
Pro Forma Revenues Excluding F	Riders			\$235,782			
Pro Forma Revenue Increase	tido:0			(1,320)			
Total Revenue Requirement				\$234,462			
. o.a o.o o.qa o o				420 ., .02			
Less:							
Municipal Discount	(\$0.00837)	49,924 K	(wh	(418)			
Municipal Discount & 10% Disc	(0.00753)	368,925 K	(wh	(2,778)			
Base Fuel				62,540			
Subtotal				59,344			
Net to be Collected Through Ener	rgy			\$175,118			
Total Kwh Sales (Applicable Acct Proposed Energy Charges:	s Discounted at 90	% of actual)		2,237,793			
Company				\$0.07825			
Municipal				0.06988			
Company Discounted				0.07042			
Municipal Discounted				0.06289			
				00-00			

Derivation of Rate and Reconciliation Municipal Pumping Service Rate 48 TCJA Settlement - Docket GE17-003

	Pro Forma	Authorized EL15-		5-024		Proposed Ra	tos
Municipal Pumping Service	2017	Rat		Revenue	R	ate	Revenue
Basic Service Charge Accts with No Discount Accts with 10% Discount 2/ Total Basic Service Charge	43 7 50		per month per month	9,804 1,436 \$11,240		per month per month	9,804 1,436 \$11,240
Energy Accts with No Discount Accts with 10% Discount 2/	40,654 1,442,169 1,482,823	\$0.02457 0.02211	per Kwh per Kwh	999 31,886 \$32,885	\$0.02415 \$0.02173	per Kwh per Kwh	982 31,342 32,324
Winter Accts with No Discount Accts with 10% Discount 2/ Summer Accts with No Discount Accts with Total Demand Total Demand Billed	451.4 4,206.5 319.8 2,195.4 7,173.1	4.50 7.00	per KW per KW per KW per KW	2,257 18,929 2,239 13,831 37,256	4.50 \$7.00	per KW per KW per KW per KW	2,257 18,929 2,239 13,831 37,256
Base Fuel	1,482,823	0.02524	per Kwh	37,426	0.02524	per Kwh	37,426
Transmission Rider Accts with No Discount Accts with 10% Discount 2/	40,654 1,442,169	\$0.00438 0.00394	per Kwh per Kwh	178 5,682 5,860	\$0.00438 0.00394	per Kwh per Kwh	178 5,682 5,860
Infrastructure Rider Accts with No Discount Accts with 10% Discount 2/	40,654 1,442,169	\$0.00497 0.00447	per Kwh per Kwh	202 6,446 6,648	\$0.00497 0.00447	per Kwh per Kwh	202 6,446 6,648
Total Rate 48 Revenue Total Excluding Riders				\$131,315 \$118,807			\$130,754 \$118,246
Total Revenues Per Design Target Revenues Difference							\$118,246 118,253 (\$7)
Derivation of Rate:					_		
Pro Forma Revenues Excluding Ric Pro Forma Revenue Increase Total Revenue Requirement	ders			\$118,807 (554) \$118,253			
Less: Proposed Basic Service Charge F Proposed Demand Revenues Base Fuel Subtotal	Revenues			11,240 37,256 37,426 85,922			
Net to be Collected Through Energy	/			32,331			
Total Kwh Sales (Applicable Accts	Discounted at 90%	of actual)		1,338,606			

\$0.02415

0.02173

Energy Rate

Discounted Energy Rate