2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	nest IR-1:
2		
3	Refe	rence p. 10, ll. 5-7.
4		
5	(a)	Please explain in detail how the fuel stability strategy will reduce the exposure to
6		variable fuel costs.
7		
8	(b)	Please explain in detail how the hedge plan will ensure that least-cost hedge
9		strategies are being used.
10		
11	(c)	Does NS Power intend to seek Board approval of specific hedge amounts or contract
12		types before or during the Rate Stability Period? If so, please describe NS Power's
13		plans for filing for Board authorization once the specific hedge strategies have been
14		devised.
15		
16	Resp	onse IR-1:
17		
18	(a)	As detailed in Confidential Appendix D (NS Power Fuel Hedging Plan), the Company
19		has proposed a hedging plan that is designed to provide greater fuel cost stability during
20		the Rate Stability Period. It is intended to reduce the variability of fuel costs while
21		ensuring the Company maintains flexibility among the fuels portfolio. During the Rate
22		Stability Period, NS Power will hedge 75-100% of expected fuel requirements using a
23		portfolio of physical and financial contracts. For fixed price physical contracts, NS
24		Power knows at the time of contract execution what it will pay for the purchased fuel,
25		thereby eliminating exposure to variable market pricing. For financial hedges, the gain or
26		loss from these contracts will offset higher or lower prices that the Company will pay for
27		the underlying physical fuel. When market prices rise, the financial contracts will
28		increase in value thereby offsetting higher market prices for the physical fuel. When
29		market prices fall, the financial hedges will result in losses, but the underlying physical
30		commodity will be purchased at the lower market price. Therefore, NS Power and its

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	customers are less exposed to variable market prices regardless of the direction of price
	movements. Not all risks can be hedged, however, the overall magnitude of changes in
	total fuel & purchased power costs that would result from changes in market prices will
	be reduced through the implementation of NS Power's Fuel Stability Plan.
(b)	The objective of hedging is to provide fuel cost stability for customers, and does not
	guarantee the lowest cost portfolio will be achieved. The direct costs of hedging with
	forwards, futures, and swaps are brokerage costs, exchange fees, and the carrying cost of
	posted margin. Other hedging products, such as options, have a higher cost due to the
	initial option premium that is paid by the buyer, generally at inception of the hedge. NS
	Power may make limited use of options within its portfolio, however, it intends to
	primarily use the lower-cost items listed above. NS Power will only hedge when it is
	cost effective to do so and will ensure that only reasonable costs are incurred in the
	execution of its hedges.

16 (c) Please refer to NSUARB IR-12.

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1	Requ	nest IR-2:
2		
3	Refe	rence p. 22, Figure 1.
4		
5	(a)	Please provide in an electronic spreadsheet, with all cell formulas and file linkages
6		intact, a revised version of Figure 1 reflecting the correction described in NS
7		Power's March 21, 2016 letter to the UARB. Please provide copies of all linked
8		spreadsheet files.
9		
10	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
11		formulas and file linkages intact, relied on to derive the revised version of Figure 1.
12		
13	(c)	Please provide copies of all workpapers, including electronic spreadsheets with cell
14		formulas and file linkages intact, relied on to derive the smoothed percentage
15		increase over the Rate Stability Period for each rate class from the forecast of
16		unsmoothed annual percentage increases during the Rate Stability Period.
17		
18	(d)	Please state whether the values shown in the revised Figure 1 represent percentage
19		changes in base cost of fuel revenues, base energy and (where applicable) demand
20		revenues, or total base revenues inclusive of customer-charge revenues (where
21		applicable).
22		
23	(e)	Please state whether the values shown in the revised Figure 1 for the year 2020
24		reflect the estimated impact of deferring recovery or reimbursement of 2016 AA
25		and BA amounts until 2020. If so, please provide copies of all workpapers, including
26		electronic spreadsheets with cell formulas and file linkages intact, relied on to derive
27		the estimates of the 2016 AA and BA amounts recovered or reimbursed in 2020.
28		

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

CONFIDENTIAL (Attachment Only)

1	Respo	onse IR-2:
2		
3	(a-c)	Please refer to Partially Confidential Attachments 1 and 2.
4		
5	(d)	The values shown in revised Figure 1 represent percentage changes in total base revenues
6		inclusive of customer charge revenues where applicable.
7		
8	(e)	The values shown in revised Figure 1 for the year 2020 do not reflect the impact of
9		deferring recovery or reimbursement of 2016 AA and BA amounts until 2020. At this
10		point the Company projects the imbalance in recovery of 2016 AA and BA amounts to be
11		zero. Any actual imbalances in recovery of 2016 AA and BA will be addressed in the
12		FAM AA/BA proceeding in the fall of 2016. Please refer to CA IR-4 and NSDOE IR-3.

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							2	017 REV	ENUE	ANA	LY	SIS									
			Rev	enues a	t 2016	rates			Revenu	es at 2	017	rates			Revenue	Variance)	Re	venue	% Va	ar
Rate Classes	2017 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates	2016 BCF	2017 BCF	FAM AA	A FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total
FAM Classes Residential	4,508.9	\$706,283,379	0.367	\$16,547,747	0.213	(\$9,604,006)	\$713,227,121	\$723,989,488	5.364	5.756	-	-	\$723,989,488	\$17,706,108	(\$16,547,747)	\$9,604,006	\$10,762,367	2.5%	-2.3%	1.3%	1.5%
Small General General Demand <u>Large General ⁽¹⁾</u> Total Commercial	262.7 2,424.7 <u>415.6</u> 3,102.9	\$40,263,949 \$309,962,227 \$46,006,829 \$396,233,006	0.308 0.271 0.007	\$809,030 \$6,570,962 \$29,089 \$7,409,081	0.308 0.089 0.026	(\$809,030) (\$2,157,991) (\$108,046) (\$3,075,067)	\$40,263,949 \$314,375,198 \$45,927,873 \$400,567,020	\$40,904,272 \$315,992,597 \$47,606,312 \$404,503,181	5.526 5.258 5.002	5.770 5.507 5.387	- - - -	- - -	\$40,904,272 \$315,992,597 <u>\$47,606,312</u> \$404,503,181	\$640,323 \$6,030,370 \$1,599,482 \$8,270,175	(\$809,030) (\$6,570,962) (\$29,089) (\$7,409,081)	\$809,030 \$2,157,991 <u>\$108,046</u> \$3,075,067	\$640,323 \$1,617,399 <u>\$1,678,439</u> \$3,936,161	1.6% 1.9% <u>3.5%</u> 2.1%	-2.0% -2.1% <u>-0.1%</u> -1.8%	2.0% 0.7% <u>0.2%</u> 0.8%	1.6% 0.5% <u>3.7%</u> 1.0%
Small Industrial Medium Industrial Large Industrial	256.6 475.6	\$32,637,400 \$53,564,445	0.211 0.016	\$541,492 \$76,099	0.018	(\$279,728) \$85,611	\$32,899,163 \$53,726,156	\$33,179,305 \$54,509,767	5.175 4.928	5.386 5.127	-	-	\$33,179,305 \$54,509,767	\$541,905 \$945,322	(\$541,492) (\$76,099)	\$279,728 (\$85,611)	\$280,141 \$783,611	1.6% 1.8%	-1.6% -0.1%	0.9% -0.2%	0.9% 1.5%
Firm Interruptible Large Industrial Total Total Industrial	127.3 652.9 <u>780.3</u> 1,512.5	\$12,966,722 \$62,081,322 \$75,048,045 \$161,249,889	0.011 0.011 0.011	\$14,006 <u>\$71,822</u> <u>\$85,828</u> \$703,419	0.117 0.097 0.097	\$148,977 \$633,336 \$782,312 \$588,196	\$13,129,705 \$62,786,480 \$75,916,185 \$162,541,504	\$13,273,203 \$63,669,273 \$76,942,476 \$164,631,548	4.807 4.807 4.807	5.048 5.050	_ -		\$13,273,203 \$63,669,273 \$76,942,476 \$164,631,548	\$306,481 \$1,587,951 \$1,894,431 \$3,381,659	(\$14,006) (\$71,822) (\$85,828) (\$703,419)	(\$148,977) (\$633,336) (\$782,312) (\$588,196)	\$143,498 <u>\$882,793</u> \$1,026,291 \$2,090,044	2.3% 2.5% 2.5% 2.1%	-0.1% -0.1% -0.1% - 0.4%	-1.1% -1.0% -1.0% -0.4%	1.1% <u>1.4%</u> <u>1.4%</u> 1.3%
Municipal <u>Unmetered ⁽²⁾</u> Total Other	177.8 <u>103.7</u> 281.5	\$20,322,188 \$21,932,109 \$42,254,297	0.331 0.222	\$588,545 <u>\$230,257</u> \$818,802	0.142 0.221	(\$252,488) (\$229,220) (\$481,707)	\$20,658,246 \$21,933,146 \$42,591,392	\$20,914,608 <u>\$22,089,781</u> \$43,004,388	4.998 5.301	5.332 5.453	<u>-</u>	<u>-</u>	\$20,914,608 <u>\$22,089,781</u> \$43,004,388	\$592,420 <u>\$157,672</u> \$750,091	(\$588,545) (\$230,257) (\$818,802)	\$252,488 <u>\$229,220</u> \$481,707	\$256,362 <u>\$156,634</u> \$412,997	2.9% 0.7% 1.8%	-2.8% -1.0% -1.9%	1.2% 1.0% 1.1%	1.2% 0.7% 1.0%
Total FAM Classes	9,405.9	\$1,306,020,572		\$25,479,049		(\$12,572,585)	\$1,318,927,037	\$1,336,128,605			-	-	\$1,336,128,605 2.31%	\$30,108,033	(\$25,479,049)	\$12,572,585	\$17,201,568	2.3%	-1.9%	1.0%	1.3%
BTL GRLF 1P-RTP Shore Power LRT																					
Total BTL Classes	1,093.0	\$65,698,399		\$0		\$0	\$65,698,399	\$65,698,399	4.705	5.509	-	-	\$65,698,399	\$0	\$0	\$0	\$0		0%	0%	0%
In Province Total Export	10,498.9 48.5	\$1,371,718,971 \$2,266,650		\$25,479,049 \$0		(\$12,572,585) \$0	\$1,384,625,436 \$2,266,650	\$1,401,827,004 \$2,266,650			-	-	\$1,401,827,004 \$2,266,650	\$30,108,033 \$0	(\$25,479,049) \$0	\$12,572,585 \$0	\$17,201,568 \$0	2.2% 0.0%	-1.8% 0.0%	0.9% 0.0%	1.2% 0.0%
Total Electric Sales	10,547.4	\$1,373,985,621		\$25,479,049		(\$12,572,585)	\$1,386,892,086	\$1,404,093,654	5.191	4.980	-	-	\$1,404,093,654	\$30,108,033	(\$25,479,049)	·	\$17,201,568	2.2%	-1.8%	0.9%	1.2%

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							20	18 REVE	ENUE	ANA	\LY	/SIS	S									
			Reve	enues	at 201	7 rates		F	Revenu	es at 2	018	rate	es		R	evenue	Variand	е	Rev	enue	% Va	ır
Rate Classes	2018 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates	2017 BCF	2018 BCF EEC	FAM /	AA FAI	м ва	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total
FAM Classes Residential	4,549.4	\$729,961,088				_	\$729,961,088	\$740,975,966	5.756	5.998	_			\$740,975,966	\$11,014,877	_	_	\$11,014,877	1.5%	0.0%	0.0%	1.5%
Small General General Demand <u>arge General ⁽¹⁾</u> Fotal Commercial	262.3 2,413.1 <u>412.7</u> 3,088.1	\$40,874,443 \$314,476,448 \$47,360,592 \$402,711,483		: 		- - 	\$40,874,443 \$314,476,448 \$47,360,592 \$402,711,483	\$41,524,474 \$316,094,368 \$49,091,390 \$406,710,233	5.770 5.507 5.387	6.018 5.574 5.807	- - -	_	- - -	\$41,524,474 \$316,094,368 \$49,091,390 \$406,710,233	\$650,031 \$1,617,920 \$1,730,798 \$3,998,749	- - -	<u>:</u> ————————————————————————————————————	\$650,031 \$1,617,920 <u>\$1,730,798</u> \$3,998,749	1.6% 0.5% <u>3.7%</u> 1.0%	0.0% 0.0% <u>0.0%</u> 0.0%	0.0% 0.0% <u>0.0%</u> 0.0%	1.6% 0.5% <u>3.7%</u> 1.0%
Small Industrial Medium Industrial ⁽¹⁾ Large Industrial ⁽¹⁾	256.2 479.1	\$33,120,240 \$54,906,432		-		- -	\$33,120,240 \$54,906,432	\$33,402,264 \$55,707,258	5.386 5.127	5.496 5.294	-		-	\$33,402,264 \$55,707,258	\$282,024 \$800,826	-	- -	\$282,024 \$800,826	0.9% 1.5%	0.0%	0.0%	0.9% 1.5%
Firm Interruptible Large Industrial Total Total Industrial	126.3 667.0 793.3 1,528.6	\$13,190,129 \$65,164,542 <u>\$78,354,671</u> \$166,381,344		- 		- 	\$13,190,129 \$65,164,542 \$78,354,671 \$166,381,344	\$13,334,288 <u>\$66,080,771</u> <u>\$79,415,059</u> \$168,524,581	5.048 5.050	5.162 5.188	- 		- 	\$13,334,288 \$66,080,771 \$79,415,059 \$168,524,581	\$144,158 \$916,229 \$1,060,388 \$2,143,237	- 	- 	\$144,158 \$916,229 \$1,060,388 \$2,143,237	1.1% <u>1.4%</u> <u>1.4%</u> 1.3%	0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0%	1.1% <u>1.4%</u> <u>1.4%</u> 1.3%
Municipal <u>Jnmetered ⁽²⁾</u> Total Other	178.0 101.9 279.9	\$20,927,144 \$21,889,632 \$42,816,776		- - 		- <u>-</u>	\$20,927,144 \$21,889,632 \$42,816,776	\$21,186,843 \$22,047,148 \$43,233,991	5.332 5.453	5.478 5.607	- -		- - -	\$21,186,843 \$22,047,148 \$43,233,991	\$259,699 \$157,516 \$417,215	- - - -	- <u>-</u>	\$259,699 \$157,516 \$417,215	1.2% 0.7% 1.0%	0.0% 0.0% 0.0%	0.0% 0.0% 0.0%	1.2% 0.7% 1.0%
Total FAM Classes	9,445.9	\$1,341,870,691		-		-	\$1,341,870,691	\$1,359,444,770			-		-	\$1,359,444,770	\$17,574,079	-	-	\$17,574,079	1.3%	0.0%	0.0%	1.3%
BTL GRLF 1P-RTP Shore Power LRT																						
Total BTL Classes	1,092.962	\$55,745,572		-		-	\$55,745,572 \$4,307,646,363	\$55,745,572	5.509	4.598	-		-	\$55,745,572	\$0 \$47.574.070	•	-	\$0 \$17,574,070		0%	0%	0%
n Province Total Export	10,538.9 50.0	\$1,397,616,263 \$2,616,861		-		-	\$1,397,616,263 \$2,616,861	\$1,415,190,342 \$2,616,861			-		-	\$1,415,190,342 \$2,616,861	\$17,574,079 \$0	-	-	\$17,574,079 \$0	1.3% 0.0%	0.0%	0.0%	1.3%
Total Electric Sales	10,588.9	\$1,400,233,124		-		-	\$1,400,233,124	\$1,417,807,203	4.980	6.323	_		-	\$1,417,807,203	\$17,574,079	-	-	\$17,574,079	1.3%	0.0%	0.0%	1.3%

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							20	19 REV	ENU	E AN	IAL'	YSIS									
			Reve	nues a	at 2018	3 rates		F	Reveni	ues at	2019	rates	i	Re	venue	Varianc	е	Re	venue	% V a	ar
Rate Classes	2019 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates		2019 BCF EEC	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total
FAM Classes Residential	4,583.1	\$746,039,914		-		-	\$746,039,914	\$757,297,416	5.998	6.244	-	-	\$757,297,416	\$11,257,502	-	-	\$11,257,502	1.5%	0.0%	0.0%	1.5%
Small General General Demand <u>Large General ⁽¹⁾</u> Total Commercial	262.1 2,404.7 409.9 3,076.6	\$41,522,336 \$314,992,968 \$48,833,742 \$405,349,047		- - -		- - - -	\$41,522,336 \$314,992,968 \$48,833,742 \$405,349,047	\$42,182,671 \$316,613,546 \$50,618,376 \$409,414,594	6.018 5.574 5.807	6.270 5.641 6.242	- - 	- - -	\$42,182,671 \$316,613,546 \$50,618,376 \$409,414,594	\$660,335 \$1,620,578 <u>\$1,784,634</u> \$4,065,547	- - - -	- - - -	\$660,335 \$1,620,578 <u>\$1,784,634</u> \$4,065,547	1.6% 0.5% <u>3.7%</u> 1.0%	0.0% <u>0.0%</u>	0.0% 0.0% <u>0.0%</u> 0.0%	1.6% 0.5% <u>3.7%</u> 1.0%
Small Industrial Medium Industrial ⁽¹⁾ Large Industrial ⁽¹⁾	256.0 481.6	\$33,383,510 \$56,000,014		-		-	\$33,383,510 \$56,000,014	\$33,667,775 \$56,816,790	5.496 5.294	5.607 5.464	-	-	\$33,667,775 \$56,816,790	1 ' '	-	-	\$284,265 \$816,776			0.0% 0.0%	0.9% 1.5%
Firm Interruptible Large Industrial Total Total Industrial	125.3 666.9 <u>792.2</u> 1,529.8	\$13,250,039 \$66,073,737 \$79,323,776 \$168,707,300		- 		- - - -	\$13,250,039 \$66,073,737 \$79,323,776 \$168,707,300	\$13,394,852 \$67,002,750 \$80,397,602 \$170,882,168	5.162 5.188 -	5.277 5.327	_ -	- 	\$13,394,852 \$67,002,750 \$80,397,602 \$170,882,168	1 ' '	<u>-</u>		\$144,813 \$929,013 \$1,073,826 \$2,174,868	1.1% <u>1.4%</u> <u>1.4%</u> 1.3%	0.0%	0.0% <u>0.0%</u> <u>0.0%</u> 0.0%	1.1% <u>1.4%</u> <u>1.4%</u> 1.3%
Municipal <u>Unmetered ⁽²⁾</u> Total Other	172.1 100.9 273.0	\$20,700,322 \$21,953,369 \$42,653,691		- 		- - -	\$20,700,322 \$21,953,369 \$42,653,691	\$20,957,207 <u>\$22,110,329</u> \$43,067,536	5.478 5.607	5.627 5.763	- 	- 	\$20,957,207 <u>\$22,110,329</u> \$43,067,536	\$256,884 <u>\$156,960</u> \$413,845	- - -	- 	\$256,884 <u>\$156,960</u> \$413,845	1.2% <u>0.7%</u> 1.0%	0.0%	0.0% <u>0.0%</u> 0.0%	1.2% <u>0.7%</u> 1.0%
Total FAM Classes	9,462.5	\$1,362,749,953		-		-	\$1,362,749,953	\$1,380,661,713			-	-	\$1,380,661,713	\$17,911,761	-	-	\$17,911,761	1.3%	0.0%	0.0%	1.3%
GRLF 1P-RTP Shore Power LRT																					
Total BTL Classes In Province Total	1,093.0 10,555.5	\$56,830,072 \$1,419,580,024		-		-	\$56,830,072 \$1,419,580,024	, , ,	4.598	4.697	-	-	\$56,830,072 \$1,437,491,785	\$0 \$17,911,761	-	-	\$0 \$17,911,761	0% 1.3%		0% 0.0%	0% 1.3%
Export	47.0	\$2,758,318		-		-	\$2,758,318	\$2,758,318			-	-	\$2,758,318	\$0	-	-	\$0	0.0%	0.0%	0.0%	0.0%
Total Electric Sales	10,602.5	\$1,422,338,342		-		-	\$1,422,338,342	\$1,440,250,103	6.323	6.403	-	-	\$1,440,250,103	\$17,911,761	-	-	\$17,911,761	1.3%	0.0%	0.0%	1.3%

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						20	20 REV	ENU	E AN	IAL'	YSIS	I								
			Revenue	es at 201	9 rates		F	Reveni	ues at	2020	rates		Re	venue	Varianc	е	Re	venue	% Va	ar
Rate Classes	2019 Sales (GWh's)	Base Cost Rates	FAM AA Riders FAM	FAM BA I AA Riders	FAM BA	Total	Base Cost Rates		2020 BCF EEC	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total
FAM Classes Residential	4,629.4	\$764,425,506		-	-	\$764,425,506	\$813,223,761	6.244	7.298	-	-	\$813,223,761	\$48,798,255	-	-	\$48,798,255	6.4%	0.0%	0.0%	6.4%
Small General General Demand <u>Large General ⁽¹⁾</u> Total Commercial	263.4 2,408.3 <u>407.0</u> 3,078.7	\$42,402,763 \$317,088,704 \$50,349,594 \$409,841,062		- - -	- -	\$42,402,763 \$317,088,704 \$50,349,594 \$409,841,062	\$44,520,659 \$344,165,756 \$50,931,912 \$439,618,328	6.270 5.641 6.242	7.074 6.766 6.385	: <u>:</u>	- <u>-</u>	\$44,520,659 \$344,165,756 \$50,931,912 \$439,618,328	\$2,117,896 \$27,077,052 \$582,318 \$29,777,266	<u>:</u>	- <u>-</u>	\$2,117,896 \$27,077,052 \$582,318 \$29,777,266	8.5% 1.2%	0.0% 0.0% <u>0.0%</u> 0.0 %	0.0% 0.0% <u>0.0%</u> 0.0 %	5.0% 8.5% <u>1.2%</u> 7.3%
Small Industrial Medium Industrial ⁽¹⁾ Large Industrial ⁽¹⁾	256.3 482.3	\$33,701,244 \$56,895,967		- -	-	\$33,701,244 \$56,895,967	\$36,511,958 \$60,856,827	5.607 5.464	6.704 6.285	-	- -	\$36,511,958 \$60,856,827		- -	-	\$2,810,714 \$3,960,860	8.3%	0.0% 0.0%	0.0%	8.3% 7.0%
Firm Interruptible Large Industrial Total Total Industrial	124.2 663.8 <u>788.1</u> 1,526.6	\$13,309,809 \$66,756,139 \$80,065,948 \$170,663,159	_	- 	<u>-</u>	\$13,309,809 \$66,756,139 \$80,065,948 \$170,663,159	\$14,314,164 <u>\$71,794,221</u> <u>\$86,108,385</u> \$183,477,170	5.277 5.327 -	6.086 6.086	<u>-</u>	<u>-</u>	\$14,314,164 <u>\$71,794,221</u> <u>\$86,108,385</u> \$183,477,170	\$1,004,354 \$5,038,082 \$6,042,437 \$12,814,011	- 	- - - -	\$1,004,354 <u>\$5,038,082</u> <u>\$6,042,437</u> \$12,814,011	7.5% <u>7.5%</u> <u>7.5%</u> 7.5%	<u>0.0%</u> 0.0%	0.0% 0.0% 0.0% 0.0%	7.5% <u>7.5%</u> <u>7.5%</u> 7.5 %
Municipal Unmetered ⁽²⁾ Total Other	160.9 100.9 261.7	\$19,998,777 \$22,142,328 \$42,141,104		- -	<u>-</u>	\$19,998,777 <u>\$22,142,328</u> \$42,141,104	\$21,609,582 \$23,337,916 \$44,947,498	5.627 5.763	6.628 6.948	<u>-</u>	- 	\$21,609,582 \$23,337,916 \$44,947,498	\$1,610,805 <u>\$1,195,588</u>	<u>-</u>	<u>-</u>	\$1,610,805 <u>\$1,195,588</u> \$2,806,394	8.1% <u>5.4%</u> 6.7%		0.0% <u>0.0%</u> 0.0%	8.1% <u>5.4%</u> 6.7%
Total FAM Classes	9,496.5	\$1,387,070,831		-	-	\$1,387,070,831	\$1,481,266,756			-	-	\$1,481,266,756	\$94,195,926	-	-	\$94,195,926	6.8%	0.0%	0.0%	6.8%
BTL GRLF 1P-RTP Shore Power LRT																				
Total BTL Classes	1,093.0	\$55,589,552 \$1,442,660,382		-	-	\$55,589,552 \$1,442,660,382	\$55,589,552 \$1,536,856,308	4.697	4.584	-	-	\$55,589,552 \$1,536,856,308	\$0 \$94,195,926	-	-	\$0 \$94,195,926			0% 0.0%	
Export	50.0	\$3,279,932		-	-	\$3,279,932	\$3,279,932			-	-	\$3,279,932		-	-	\$0		0.0%	0.0%	0.0%
Total Electric Sales	10,639.5	\$1,445,940,314		-	-	\$1,445,940,314	\$1,540,136,240	6.403	6.661	-	-	\$1,540,136,240	\$94,195,926	-	-	\$94,195,926	6.5%	0.0%	0.0%	6.5%

REDACTED Fuel Stability Plan CA IR-2 Attachment 1 Page 5 of 11

WACC	1	7.78%																		
2016 Rates	2014 Rate				20	16						T			201	7				
	Base	Sales (GWh)	BCF			Rate S	tability Fun	nd			Sales (GWh)	В	CF			Rate	Stability F	und		
Residential	Amount % \$1,945,386 54.3%	4,485.0	Recovery at Requirement 2016 Rates \$240,558,165 \$240,558,165	beginning	Contribution from BCF Recovery	Deferred FAM		Cash Taxes	Year-end bfr Interest -\$31,047,382	Interest -\$2,094,535	4,508.9		Recovery at 2016 Rates 241,838,851.4	Year-beginning -\$33,141,917	Contribution from BCF Recovery -\$13,138,736	Deferred FAM \$0		Cash Taxes	Year-end bfr Interest In -\$49,894,160	nterest -\$3,230,103
Small General General Demand Large General Total Commercial Small Industrial	\$97,112 2.7% \$863,366 24.1% \$110,492 3.1% \$1,070,970 29.9% \$86,528 2.4%	247.6 2,509.0 406.5 3,163.2 252.4	\$13,683,753 \$13,683,753 \$131,932,851 \$131,932,851 \$20,335,158 \$20,335,158 \$165,951,761 \$165,951,761 \$13,061,307 \$13,061,307	-\$1,137,991 -\$10,117,223 - <u>\$1,294,783</u> - \$12,549,997 -\$1,013,961	\$0 \$0 <u>\$0</u> \$0	\$0 \$0 <u>\$1,054,467</u> \$1,054,467	\$233,088 -\$1,198,960 <u>\$1,291,856</u> \$325,985 -\$199,206	-\$468,613	-\$1,316,768 -\$14,977,850 <u>\$582,926</u> -\$15,711,692 -\$1,580,144	-\$95,490 -\$976,198 <u>-\$27,691</u> -\$1,099,380 -\$100,911	262.7 2,424.7 415.6 3,102.9 256.6	\$13,588,817 \$119,834,100 \$19,554,329 \$152,977,246 \$12,548,882	14,515,176.8 127,498,807.5 20,787,884.6 \$162,801,869 13,281,102.6	-\$1,412,259 -\$15,954,048 <u>\$555,235</u> -\$16,811,071 -\$1,681,055	-\$926,360 -\$7,664,708 <u>-\$1,233,556</u> -\$9,824,623 -\$732,221	\$0 \$0 <u>\$0</u> \$0	\$233,088 -\$1,198,960 <u>\$1,291,856</u> \$325,985 -\$199,206	-\$180,383 -\$1,603,681 <u>-\$205,236</u> -\$1,989,300 -\$160,723	-\$2,285,913 -\$26,421,397 <u>\$408,300</u> -\$28,299,010 -\$2,773,205	-\$143,859 -\$1,648,405 <u>\$37,482</u> - \$1,754,782 -\$173,271
Medium Industrial Large Industrial Total Firm Interruptible Large Industrial Total Total Industrial	\$152,898 4.3% 0.0% \$34,552.09 1.0% \$177,175.83 4.9% \$211,728 5.9% \$451,154 12.6%	94.9 <u>596.6</u> 691.5 1,414.8	\$23,209,111 \$23,209,111 \$4,560,898.00 \$4,560,898 \$28,677,383.97 \$28,677,384 \$33,238,282 \$33,238,282 \$69,508,700 \$69,508,700	-\$1,791,718 -\$404,893 -\$2,076,208 <u>-\$2,481,102</u> -\$5,286,780	\$0 \$0 \$0 \$0	\$941,887 \$207,885 \$1,307,109 <u>\$1,514,994</u>	-\$106,373 \$0 \$0 \$0 -\$305,580	-\$648,466 -\$146,541 -\$751,430 <u>-\$897,970</u> - \$1,913,413	-\$1,604,670 -\$343,549 -\$1,520,529 <u>-\$1,864,078</u> -\$5,048,892	-\$132,119 #DIV/0! -\$29,114 -\$139,913 <u>-\$169,027</u> -\$402,058	475.6 127.3 652.9 780.3 1,512.5	\$22,045,695 \$5,751,294 \$29,491,425 \$35,242,719 \$69,837,296	23,440,851.2 \$6,120,818 \$31,386,264 \$37,507,082 \$74,229,036	-\$1,736,789 -\$372,664 -\$1,660,442 <u>-\$2,033,105</u> -\$5,450,949	-\$1,395,156 -\$369,524 -\$1,894,839 <u>-\$2,264,363</u> -\$4,391,740	\$0 \$0 \$0 \$0 \$0	-\$106,373 \$0 \$0 \$0 -\$305,580	-\$284,005 -\$64,180 -\$329,100 <u>-\$393,279</u> -\$838,008	-\$3,522,324 -\$806,367 -\$3,884,381 <u>-\$4,690,748</u> -\$10,986,276	-\$204,579 -\$45,864 -\$215,694 -\$261,558 -\$639,408
Municipal ⁽²⁾ <u>Unmetered</u> Total Other	\$60,971 1.7% \$53,801 1.5% \$114,772 3.2%	181.0 108.4 289.4	\$9,047,284 \$9,047,284 \$5,745,785 \$5,745,785 \$14,793,069 \$14,793,069	-\$714,484 - <u>\$630,454</u> - \$1,344,938	\$0 <u>\$0</u> \$0	\$0 <u>\$0</u> \$0	\$0 - <u>\$20,405</u> - \$20,405	-\$258,589 -\$228,176 - \$486,765	-\$973,073 - <u>\$879,035</u> - \$1,852,108	-\$65,646 - <u>\$58,719</u> - \$124,365	177.8 103.7 281.5	\$8,387,562 \$5,163,406 \$13,550,968	8,887,712.9 5,497,837.6 \$14,385,550	-\$1,038,719 - <u>\$937,754</u> - \$1,976,473	-\$500,151 <u>-\$334,432</u> -\$834,583	\$0 <u>\$0</u> \$0	\$0 - <u>\$20,405</u> - \$20,405	-\$113,253 -\$99,933 - \$213,186	-\$1,652,123 - <u>\$1,392,525</u> - \$3,044,647	-\$104,674 - <u>\$90,648</u> - \$195,322
Total FAM Classes	\$3,582,281 100.0%	9,352.4	\$490,811,695 \$490,811,695	-\$41,978,422	\$0	\$3,511,348	\$0	-\$15,193,000	-\$53,660,074	-\$3,720,337	9,405.9	\$465,065,625	\$493,255,307	-\$57,380,411	-\$28,189,682	\$0	\$0	-\$6,654,000	-\$92,224,093	-\$5,819,615
Rate Plan	2014 Rate	Sales		1	20	16						Π			201	7				
Rate Plan	2014 Rate Base	Sales (GWh)	BCF		20		tability Fur	nd			Sales (GWh)	В	CF		201		Stability F	und		
Rate Plan Residential			BCF Recovery at Requirement 2016 Rates \$240,558,165 \$240,558,165	beginning	Contribution from		DSM RSA	Additional Cash Taxes	Year-end bfr Interest -\$31,047,382	Interest -\$2,094,535	, ,	Requirement	ICF Recovery at 2017 Rates 259,544,959.79	Year-beginning -\$33,141,917	Contribution from		DSM RSA Adjustment		Year-end bfr Interest In -\$67,600,268	nterest -\$3,918,871
	Base Amount %	(GWh)	Recovery at Requirement 2016 Rates	beginning	Contribution from BCF Recovery	Pate S Deferred FAM 1.054.467.0	DSM RSA A	Additional Cash Taxes -\$8,250,676 -\$411,866 -\$3,661,666 -\$468,613	Interest -\$31,047,382		, ,	Requirement	Recovery at 2017 Rates	0 0	Contribution from BCF Recovery	Rate	DSM RSA Adjustment \$0 \$233,088	Additional Cash Taxes	Interest In	
Residential Small General General Demand Large General Total Commercial Small Industrial Medium Industrial Large Industrial Total	Amount % \$1,945,386 54.3% \$97,112 2.7% \$863,366 24.1% \$110,492 3.1% \$1,070,970 29.9% \$86,528 2.4% \$152,898 4.3%	4,485.0 247.6 2,509.0 406.5 3,163.2 252.4 470.9	Requirement 2016 Rates \$240,558,165 \$240,558,165 \$13,683,753 \$13,683,753 \$131,932,851 \$20,335,158 \$20,335,158 \$165,951,761 \$13,061,307 \$13,061,307 \$23,209,111	beginning -\$22,796,706 -\$1,137,991 -\$10,117,223 <u>\$1,294,783</u> -\$12,549,997 -\$1,013,961 -\$1,791,718	Contribution from BCF Recovery \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Rate S Deferred FAM 1.054,467.0 \$1,054,467 - 941,887.0	DSM RSA Adjustment (**) \$0 \$233,088 -\$1,198,960 \$1,291,856 \$325,985 -\$199,206 -\$106,373	Additional Cash Taxes -\$8,250,676 -\$411,866 -\$3,661,666 -\$468,613 -\$4,542,146 -\$366,977 -\$648,466	Interest -\$31,047,382 -\$1,316,768 -\$14,977,850 \$582,926 -\$15,711,692 -\$1,580,144 -\$1,604,670	-\$2,094,535 -\$95,490 -\$976,198 -\$27,691 -\$1,099,380 -\$100,911 -\$132,119 #DIV/0!	4,508.9 262.7 2,424.7 415.6 3,102.9 256.6 475.6	Requirement \$228,700,115 \$13,588,817 \$119,834,100 \$19.554,329 \$152,977,246 \$12,548,882 \$22,045,695	Recovery at 2017 Rates 259,544,959.79 15,155,499.4 133,529,177.4 22,387,366.8 \$171,072,044 13,823,007.8 24,386,173.3	-\$33,141,917 -\$1,412,259 -\$15,954,048 <u>\$555,235</u> -\$16,811,071 -\$1,681,055 -\$1,736,789	Contribution from BCF Recovery -\$30,844,845 -\$1,566,682 -\$13,695,078 -\$2,833,038 -\$18,094,798 -\$1,274,126 -\$2,340,478	Rate S	DSM RSA Adjustment \$0 \$233,088 -\$1,198,960 \$1.291,856 \$325,985 -\$199,206 -\$106,373	Additional Cash Taxes -\$3,613,506 -\$180,383 -\$1,603,681 -\$205,236 -\$1,989,300 -\$160,723 -\$284,005	Interest In -\$67,600,268 -\$2,926,235 -\$32,451,767 -\$1,191,183 -\$36,569,185 -\$3,315,110 -\$4,467,646	-\$1,918,871 -\$168,767 -\$1,882,986 <u>\$24,738</u> -\$2,076,492 -\$194,351 -\$241,353
Residential Small General General Demand Large General Total Commercial Small Industrial Medium Industrial	Amount % \$1,945,386 54.3% \$97,112 2.7% \$863,366 24.1% \$110,492 3.1% \$1,070,970 29.9% \$86,528 2.4%	4,485.0 247.6 2,509.0 406.5 3,163.2 252.4	Requirement 2016 Rates \$240,558,165 \$240,558,165 \$13,683,753 \$13,683,753 \$131,932,851 \$20,335,158 \$20,335,158 \$165,951,761 \$13,061,307 \$13,061,307 \$13,061,307	beginning -\$22,796,706 -\$1,137,991 -\$10,117,223 -\$1,294,783 -\$12,549,997 -\$1,013,961	Contribution from BCF Recovery \$0 \$0 \$0 \$0 \$0 \$0	Rate S Deferred FAM 1.054.467.0 \$1,054,467 941,887.0 207,884.8 1.307.109.2 1,514,994.0	DSM RSA Adjustment (\$0 \$233,088 -\$1,198,960 \$1,291,856 \$325,985 -\$199,206	Additional Cash Taxes -\$8,250,676 -\$411,866 -\$3,661,666 -\$468.613 -\$4,542,146 -\$366,977	Interest -\$31,047,382 -\$1,316,768 -\$14,977,850 \$582,926 -\$15,711,692 -\$1,580,144	-\$2,094,535 -\$95,490 -\$976,198 <u>-\$27,691</u> -\$1,099,380 -\$100,911 -\$132,119	4,508.9 262.7 2,424.7 415.6 3,102.9	Requirement \$228,700,115 \$13,588,817 \$119,834,100 \$19,554,329 \$152,977,246 \$12,548,882	Recovery at 2017 Rates 259,544,959.79 15,155,499.4 133,529,177.4 22,387,366.8 \$171,072,044 13,823,007.8	-\$33,141,917 -\$1,412,259 -\$15,954,048 \$555,235 -\$16,811,071 -\$1,681,055	Contribution from BCF Recovery -\$30,844,845 -\$1,566,682 -\$13,695,078 -\$2,833,038 -\$18,094,798	Rate S	DSM RSA Adjustment \$0 \$233,088 -\$1,198,960 \$1,291,856 \$325,985	Additional Cash Taxes -\$3,613,506 -\$180,383 -\$1,603,681 -\$205,236 -\$1,989,300 -\$160,723	Interest In -\$67,600,268 -\$2,926,235 -\$32,451,767 -\$1,191,183 -\$36,569,185 -\$3,315,110	-\$3,918,871 -\$168,767 -\$1,882,986 <u>-\$24,738</u> -\$2,076,492 -\$194,351
Residential Small General General Demand Large General Total Commercial Small Industrial Medium Industrial Large Industrial Total Firm Interruptible Large Industrial Total	Amount % \$1,945,386 54.3% \$97,112 2.7% \$863,366 24.1% \$110,492 3.1% \$1,070,970 29.9% \$86,528 2.4% \$152,898 4.3% \$34,552.09 1.0% \$177,175.83 4.9% \$211,728 5.9%	4,485.0 247.6 2,509.0 406.5 3,163.2 252.4 470.9 94.9 596.6 691.5	Requirement 2016 Rates \$240,558,165 \$240,558,165 \$13,683,753 \$13,683,753 \$131,932,851 \$20,335,156 \$20,335,156 \$165,951,761 \$13,061,307 \$23,209,111 \$4,560,898.00 \$28,677,383,97 \$33,238,282 \$33,238,282	beginning -\$22,796,706 -\$1,137,991 -\$10,117,223 -\$1,294,783 -\$12,549,997 -\$1,013,961 -\$1,791,718 -\$404,893 -\$2,076,208 -\$2,481,102	Contribution from BCF Recovery \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Rate S Deferred FAM	DSM RSA Adjustment (1) \$0 \$233,088 -\$1,198,960 \$1,291,856 \$325,985 -\$199,206 -\$106,373	Additional Cash Taxes -\$8,250,676 -\$411,866 -\$3,661,666 -\$468,613 -\$4,542,146 -\$366,977 -\$648,466 -\$146,541 -\$751,430 -\$897,970	Interest -\$31,047,382 -\$1,316,768 -\$14,977,850 \$582,926 -\$15,711,692 -\$1,580,144 -\$1,604,670 -\$343,549 -\$1,520,529 -\$1,864,078	-\$2,094,535 -\$95,490 -\$976,198 -\$27,691 -\$1,099,380 -\$100,911 -\$132,119 #DIV/0! -\$29,114 -\$139,913 -\$169,027	4,508.9 262.7 2,424.7 415.6 3,102.9 256.6 475.6 127.3 652.9 780.3	Requirement \$228,700,115 \$13,588,817 \$119,834,100 \$19,554,329 \$152,977,246 \$12,548,882 \$22,045,695 \$5,751,294 \$29,491,425 \$35,242,719	Recovery at 2017 Rates 259,544,959.79 15,155,499.4 133,529,177.4 22.387,366.8 \$171,072,044 13,823,007.8 24,386,173.3 \$6,427,299 \$32,974,215 \$39,401,514	-\$33,141,917 -\$1,412,259 -\$15,954,048 \$555,235 -\$16,811,071 -\$1,681,055 -\$1,736,789 -\$372,664 -\$1,660,442 -\$2,033,105	Contribution from BCF Recovery -\$30,844,845 -\$1,566,682 -\$13,695,078 -\$2,833,038 -\$18,094,798 -\$1,274,126 -\$2,340,478 -\$676,004 -\$3,482,790 -\$4,158,794	Rate S Deferred FAM \$0	DSM RSA Adjustment \$0 \$233,088 -\$1,198,960 \$1,291,856 \$325,985 -\$199,206 -\$106,373 \$0 \$0 \$0	Additional Cash Taxes -\$3,613,506 -\$180,383 -\$1,603,681 -\$205,236 -\$1,989,300 -\$160,723 -\$284,005 -\$64,180 -\$329,100 -\$333,279	Interest In -\$67,600,268 -\$2,926,235 -\$32,451,767 -\$1,191,183 -\$36,569,185 -\$3,315,110 -\$4,467,646 -\$1,112,848 -\$5,472,331 -\$6,585,179	-\$3,918,871 -\$168,767 -\$1,882,986 <u>-\$24,738</u> -\$2,076,492 -\$194,351 -\$241,353 -\$57,786 -\$277,465 <u>-\$335,251</u>

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2016 Rates	2018													2019)					
	Sales (GWh)	В	CF			Rate S	tability Fur	nd			Sales (GWh)	В	CF			Rate S	Stability F	und		
			Recovery at 2016 Rates		Contribution from BCF Recovery	Deferred FAM			Year-end bfr Interest	nterest			Recovery at 2016 Rates		Contribution from BCF Recovery	Deferred FAM	DSM RSA Adjustment	Additional Cash Taxes	Year-end bfr Interest	Interest
Residential	4,549.4	\$315,943,371	244,008,479.3	-\$53,124,263	\$71,934,892	\$0	\$0	-\$1,288,067	\$17,522,562	-\$1,384,906	4,583.1	\$321,240,057	245,816,195.4	\$16,137,656	\$75,423,862	\$0	\$0	-\$119,442	\$91,442,076	\$4,184,852
Small General General Demand Large General Total Commercial	262.3 2,413.1 412.7 3,088.1	\$17,604,720 \$153,829,665 \$24,673,184 \$196,107,569	14,493,754.5 126,887,061.4 20,645,600.6 \$162,026,417	-\$2,429,772 -\$28,069,802 \$445,781 -\$30,053,792	\$3,110,965 \$26,942,603 \$4,027,584 \$34,081,152	\$0 \$0 <u>\$0</u> \$0	\$233,088 -\$1,198,960 \$1,291,856 \$325,985	-\$64,299 -\$571,647 <u>-\$73,158</u> -\$709,104	\$5,692,063	-\$61,454 -\$1,204,640 \$238,762 - \$1,027,332	262.1 2,404.7 409.9 3,076.6	\$17,753,529 \$155,184,722 \$24,873,915 \$197,812,165	14,483,253.2 126,444,935.7 20,503,316.6 \$161,431,506	\$788,529 -\$4,102,444 \$5,930,825 \$2,616,909	\$3,270,276 \$28,739,786 \$4,370,598 \$36,380,660	\$0 \$0 <u>\$0</u> \$0	\$0 \$0 <u>\$0</u> \$0	-\$5,962 -\$53,009 <u>-\$6,784</u> -\$65.755	\$4,052,842 \$24,584,333 <u>\$10,294,639</u> \$38,931,814	\$796,745 \$631,171
Small Industrial Medium Industrial Large Industrial Total	256.2 479.1	\$16,132,494 \$28,181,928	13,257,460.2 23,611,429.1	-\$2,946,476 -\$3,726,903	\$2,875,034 \$4,570,499	\$0	-\$199,206 -\$106,373	-\$57,291 -\$101,236	-\$327,939 \$635,986	-\$127,375 -\$120,237	256.0 481.6	\$16,350,955 \$28,776,404	13,250,016.6 23,735,513.2	-\$455,314 \$515,750	\$3,100,939 \$5,040,891	\$0 \$0	\$0 \$0	-\$5,313 -\$9,388	\$2,640,312 \$5,547,253	\$84,996
Firm Interruptible Large Industrial Total	126.3 667.0 793.3	\$7,178,323 <u>\$37,910,885</u> \$45,089,208	6,071,338.2 32,064,566.2 \$38,135,904	-\$852,231 -\$4,100,074 -\$4,952,306	\$1,106,985 \$5,846,319 \$6,953,303	\$0 \$0 <u>\$0</u>	\$0 \$0 \$0	-\$22,877 -\$117,311 -\$140,188	\$231,876 \$1,628,934 \$1.860.810	-\$24,132 -\$96,127 -\$120,259	125.3 666.9 792.2	\$7,236,831 <u>\$38,528,725</u> \$45,765,556	6,021,858.3 32,060,238.3 \$38.082.097	\$207,744 \$1,532,807 \$1,740,551	\$1,214,973 \$6,468,487 \$7,683,460	\$0 \$0 <u>\$0</u>	\$0 \$0 <u>\$0</u>	-\$2,121 -\$10,878 -\$13,000	\$1,420,595 \$7,990,416 \$9,411,011	\$63,342 \$370,453 \$433,796
Total Industrial	1,528.6	\$89,403,630	\$75,004,794	-\$11,625,684	\$14,398,836	\$0	-\$305,580	-\$298,715	\$2,168,857	-\$367,871	1,529.8	\$90,892,916	\$75,067,626	\$1,800,987	\$15,825,290		<u>\$0</u>	-\$27,700	\$17,598,577	\$754,643
Municipal ⁽²⁾ <u>Unmetered</u>	178.0 101.9	\$11,134,818 \$6,660,842	8,895,353.5 5,403,485.2	-\$1,756,796 -\$1,483,172	\$2,239,465 \$1,257,356	\$0 <u>\$0</u>	\$0 <u>-\$20,405</u>	-\$40,370 <u>-\$35,622</u>	\$442,299 - <u>\$281,843</u>	-\$51,134 -\$68,659	172.1 100.9	\$10,890,680 <u>\$6,699,251</u>	8,604,011.4 5,346,237.6	\$391,165 <u>-\$350,502</u>	\$2,286,668 \$1,353,013	\$0 <u>\$0</u>	\$0 <u>\$0</u>	-\$3,743 <u>-\$3,303</u>	\$2,674,089 \$999,208	\$119,238 <u>\$25,235</u>
Total Other	279.9	\$17,795,660	\$14,298,839	-\$3,239,969	\$3,496,821	\$0	-\$20,405	-\$75,992	\$160,455	-\$119,793	273.0	\$17,589,931	\$13,950,249	\$40,662	\$3,639,682	= "	\$0	-\$7,047	\$3,673,297	\$144,473
Total FAM Classes	9,445.9	\$619,250,230	\$495,338,528	-\$98,043,708	\$123,911,702	\$0	\$0	-\$2,371,878	\$23,496,115	-\$2,899,901	9,462.5	\$627,535,070	\$496,265,576	\$20,596,214	\$131,269,493	\$0	\$0	-\$219,943	\$151,645,764	\$6,700,213
Rate Plan		I			2018	}									2019)				
	Sales (GWh)	В	CF			Rate S	tability Fur	nd			Sales (GWh)	В	CF			Rate S	Stability Fu	und		
			Recovery at 2018 Rates			Deferred FAM		Additional Cash Taxes	Year-end bfr Interest	nterest			Recovery at 2019 Rates		Contribution from BCF Recovery	Deferred FAM		Additional Cash Taxes	Year-end bfr Interest	Interest
Residential	4,549.4	\$315,943,371	272,888,313.26	-\$71,519,139	\$43,055,058	-	\$0	-\$1,288,067	-\$29,752,148	-\$3,939,453	4,583.1	\$321,240,057	286,167,484.74	-\$33,691,601	\$35,072,573	-	\$0	-\$119,442	\$1,261,530	-\$1,261,530
Small General General Demand <u>Large General</u> Total Commercial	262.3 2,413.1 412.7 3,088.1	\$17,604,720 \$153,829,665 \$24,673,184 \$196,107,569	15,783,163.5 134,506,417.5 23,964,932.7 \$174,254,514	-\$3,095,003 -\$34,334,753 <u>-\$1,215,921</u> -\$38,645,677	\$1,821,556 \$19,323,247 <u>\$708,252</u> \$21,853,055	- - - \$0	\$233,088 - \$1 ,198,960 <u>\$1,291,856</u> \$325,985	-\$64,299 -\$571,647 <u>-\$73,158</u> -\$709,104	-\$1,104,657 -\$16,782,112 \$711,029 -\$17,175,741	-\$19,640	262.1 2,404.7 409.9 3,076.6	\$17,753,529 \$155,184,722 <u>\$24,873,915</u> \$197,812,165	16,432,062.9 135,658,320.6 25,584,406.9 \$177,674,790	-\$1,268,024 -\$18,770,558 \$691,388 - \$19,347,194	\$1,321,466 \$19,526,401 <u>-\$710,492</u> \$20,137,375	<u> </u>	\$0 \$0 <u>\$0</u> \$0	-\$5,962 -\$53,009 <u>-\$6,784</u> -\$65,755	\$47,479 \$702,834 <u>-\$25,888</u> \$724,426	-\$702,834 \$25,888
Small Industrial Medium Industrial Large Industrial Total	256.2 479.1	\$16,132,494 \$28,181,928	14,080,424.3 25,364,456.3	-\$3,509,461 -\$4,708,998	\$2,052,070 \$2,817,472	- -	-\$199,206 -\$106,373	-\$57,291 -\$101,236	-\$1,713,889 -\$2,099,136	-\$203,188 -\$264,836 #DIV/0!	256.0 481.6	\$16,350,955 \$28,776,404	14,356,784.1 26,314,529.3	-\$1,917,077 -\$2,363,972	\$1,994,171 \$2,461,875	- -	\$0 \$0	-\$5,313 -\$9,388	\$71,782 \$88,515	-\$71,782 -\$88,515
Firm Interruptible Large Industrial Total	126.3 667.0 793.3	\$7,178,323 \$37,910,885 \$45,089,208	6,519,499.4 34,603,064.3 \$41,122,564	-\$1,170,634 -\$5,749,796 -\$6,920,430	\$658,823 \$3,307,821 \$3,966,644	<u>-</u>	\$0 \$0 <u>\$0</u>	-\$22,877 -\$117,311 -\$140,188	-\$534,688 -\$2,559,286 -\$3,093,974	-\$66,337 -\$323,223 -\$389,560	125.3 666.9 792.2	\$7,236,831 <u>\$38,528,725</u> \$45,765,556	6,611,180.0 35,527,406.7 \$42,138,587	-\$601,025 -\$2,882,509 -\$3,483,534	\$625,651 \$3,001,319 \$3,626,970		\$0 \$0 <u>\$0</u>	-\$2,121 -\$10,878 -\$13.000	\$22,504 \$107,931 \$130,436	-\$22,504 -\$107,931 -\$130,436
Total Industrial	1,528.6	\$89,403,630	\$80,567,444	-\$15,138,890	\$8,836,186	\$0	-\$305,580	-\$298,715	-\$6,906,999	-\$857,585	1,529.8	\$90,892,916	\$82,809,900	-\$7,764,584	\$8,083,016		<u>\$0</u>		\$290,733	-\$290,733
Municipal ⁽²⁾ <u>Unmetered</u> Total Other	178.0 101.9 279.9	\$11,134,818 \$6,660,842 \$17,795,660	9,747,981.7 5,715,966.9 \$15,463,949	-\$2,372,261 -\$1,646,977 - \$4,019,239	\$1,386,837 \$944,875 \$2,331,711		\$0 - <u>\$20,405</u> - \$20,405	-\$40,370 -\$35,622 -\$75,992	-\$1,025,794 - <u>\$758,130</u> - \$1,783,924	-\$132,184 -\$93,559 - \$225,743	172.1 100.9 273.0	\$10,890,680 \$6,699,251 \$17,589,931	9,685,598.5 5,812,369.0 \$15,497,967	-\$1,157,979 - <u>\$851,689</u> -\$2,009,668	\$1,205,081 \$886,882 \$2,091,963		\$0 <u>\$0</u> \$0	-\$3,743 -\$3,303 -\$7,047	\$43,359 <u>\$31,890</u> \$75,249	-\$43,359 -\$31,890 - \$75,249
Total FAM Classes	9,445.9	\$619,250,230	\$543,174,220	-\$129,322,944	\$76,076,010	\$0	\$0	-\$2,371,878	-\$55,618,812	-\$7,194,234	9,462.5	\$627,535,070	\$562,150,143	-\$62,813,046	\$65,384,927	\$0	\$0	-\$219,943	\$2,351,937	-\$2,351,937

WACC

2016 Rates					2020)					
	Sales (GWh)	ı	BCF			Rate S	tability Fu	ınd			
					Contribution						
		Danisina na ant	Recovery at 2016	V	from BCF	D-f	DSM RSA	Additional	Year-end bfr	Internat	Year Beginning
Residential	4,629.4	Requirement \$337,857,647		Year-beginning \$95,626,928		Deferred FAM \$0	Adjustment \$0	Cash Taxes	Interest \$185,184,248	Interest \$10.923.555	2021 \$196,107,802
Small General	263.4	\$18.633.210		\$4.241.171	\$4,076,579		\$0	\$0			\$8,806,293
General Demand	2,408.3	\$162,938,962	, ,	\$25,381,078		\$0 \$0	\$0 \$0		* - , - ,	, .	\$65,072,226
Large General	407.0	\$25,990,002		\$10,925,810		<u>\$0</u>	<u>\$0</u>				\$17,623,090
Total Commercial	3,078.7	\$207,562,174	\$161,553,020	\$40,548,059	\$46,009,154	\$0	\$0			\$4,944,395	\$91,501,608
Small Industrial	256.3	\$17,181,770	13,263,188.4	\$2,725,309	\$3,918,582	\$0	\$0	\$0	\$6,643,891	\$364,462	\$7,008,352
Medium Industrial Large Industrial Total	482.3	\$30,312,060	23,768,589.5	\$5,783,104	\$6,543,471	\$0	\$0	\$0	\$12,326,575	\$704,467 #DIV/0!	\$13,031,041
Firm	124.2	\$7,561,463		\$1,483,938			\$0				\$3,250,050
Interruptible	663.8	\$40,400,286		\$8,360,869			\$0			\$980,703	\$17,830,700
Large Industrial Total	788.1	\$47,961,749	. , ,	\$9,844,807			<u>\$0</u>				\$21,080,751
Total Industrial	1,526.6	\$95,455,580	\$74,915,543	\$18,353,220	\$20,540,037	\$0	\$0	\$0	\$38,893,256	\$2,226,888	\$41,120,144
Municipal ⁽²⁾	160.9	\$10,661,670	8,040,157.7	\$2,793,328	\$2,621,512	\$0	\$0	\$0	\$5,414,840	\$319,298	\$5,734,137
<u>Unmetered</u>	100.9	\$7,009,686		\$1,024,442			<u>\$0</u>			<u>\$144,348</u>	<u>\$2,830,649</u>
Total Other	261.7	\$17,671,356	\$13,387,985	\$3,817,770	\$4,283,370	\$0	\$0	\$0	\$8,101,140	\$463,646	\$8,564,786
Total FAM Classes	9,496.5	\$658,546,756	\$498,156,875	\$158,345,977	\$160,389,881	\$0	\$0	\$0	\$318,735,857	\$18,558,483	\$337,294,341
Rate Plan					2020)					
	Sales (GWh)		BCF				tability Fu	ınd			
	Calcs (CWII)		501		Contribution	rtato o	rabinty i c				
			Recovery at 2020		from BCF		DSM RSA	Additional	Year-end bfr		Year Beginning
		Requirement		Year-beginning		Deferred FAM		Cash Taxes		Interest	2021
Residential	4,629.4	\$337,857,647	337,857,647	\$0	\$0	-	\$0	\$0	\$0	\$0	\$0
Small General	263.4	\$18,633,210	18,633,210	-\$0	\$0	-	\$0	\$0	-\$0	-\$0	-\$0
General Demand	2,408.3	\$162,938,962	162,938,962	-\$0	\$0	-	\$0	\$0	-\$0	-\$0	-\$0
Large General	407.0	\$25,990,002		<u>-\$0</u>			<u>\$0</u>				<u>-\$0</u>
Total Commercial	3,078.7	\$207,562,174	207,562,174	-\$0	\$0	\$0	\$0	\$0	-\$0	-\$0	-\$0
Small Industrial	256.3	\$17,181,770	17,181,770	\$0	\$0	-	\$0	\$0	\$0	\$0	\$0
Medium Industrial	482.3	\$30,312,060	, ,	-\$0			\$0		* -		-\$0
Large Industrial Total				1							
Firm	124.2	\$7,561,463		-\$0	* -		\$0				-\$0
Interruptible	663.8 788.1	\$40,400,286		-\$0	* -		\$0 \$0				-\$0
Large Industrial Total Total Industrial		\$47,961,749 \$95,455,580	, ,	<u>-\$0</u> - \$0			<u>\$0</u> \$0				<u>-\$0</u> - \$0
	1 526 6		ψυυ,τυυ,υυυ	-φυ	ψU	φυ	φυ	φυ	-40	-40	-40
	1,526.6	4 ,,									1
Municipal ⁽²⁾	160.9	\$10,661,670		-\$0			\$0				-\$0
Municipal ⁽²⁾ <u>Unmetered</u>	160.9 100.9	\$10,661,670 \$7,009,686	7,009,685.9	<u>-\$0</u>	<u>\$0</u>		\$0	<u>\$0</u>	<u>-\$0</u>	<u>-\$0</u>	<u>-\$0</u>
Municipal ⁽²⁾	160.9	\$10,661,670	7,009,685.9		<u>\$0</u>			<u>\$0</u>	<u>-\$0</u>	<u>-\$0</u>	
Municipal ⁽²⁾ <u>Unmetered</u>	160.9 100.9	\$10,661,670 \$7,009,686	7,009,685.9 \$17,671,356	<u>-\$0</u> -\$0	<u>\$0</u> \$0	 \$0	\$0	<u>\$0</u> \$0	<u>-\$0</u> - \$0	<u>-\$0</u> -\$0	<u>-\$0</u>

REDACTED Fuel Stability Plan CA IR-2 Attachment 1 Page 7 of 11

REDACTED Fuel Stability Plan CA IR-2 Attachment 1 Page 8 of 11

Rever	nue Varianc	e		% Var G	Wh Sal	es		% Var	Reven	ues		Re	/ar Un venue /kWhs	s			F Rat				/ar Bo		
2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	202
\$5,465,625	\$5,812,752	\$4,849,995	\$6,720,314	0.5%	0.9%	0.7%	1.0%	0.8%	0.8%	0.7%	0.9%	0.2%	-0.1%	-0.1%	-0.1%		5.364	5.364	5.364	0.0%	0.0%	0.0%	0.
\$2,155,847	-\$28.884	-\$1,204	\$210,219	6.1%	-0.1%	-0.1%	0.5%	5.7%	-0.1%	0.0%	0.5%	-0.4%	0.1%	0.1%	0.0%		5.526	5.526	5.526	0.0%	0.0%	0.0%	0.
\$10,793,295	-\$1,487,215	-\$1,074,851	\$461,332	-3.4%	-0.5%	-0.3%	0.2%	-3.4%	-0.5%	-0.3%	0.2%	0.0%	0.0%	0.0%	0.0%		5.258	5.258	5.258	0.0%	0.0%	0.0%	0.
\$790.023	-\$234,772	-\$234,772	-\$233,685	2.2%	-0.7%	-0.7%	-0.7%	1.7%	-0.5%	-0.5%	-0.5%	-0.5%	0.2%	0.2%	0.2%		5.002	5.002	5.002	0.0%	0.0%	0.0%	0
-\$7,847,425	-\$1,750,871	-\$1,310,827	\$437,865	-1.9%	-0.5%	-0.4%	0.1%	-1.9%	-0.4%	-0.3%	0.1%	0.0%	0.0%	0.0%	0.0%								
\$537.407	-\$58,100	-\$18,292	\$32,369	1.7%	-0.2%	-0.1%	0.1%	1.7%	-0.2%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%		5.175	5.175	5.175	0.0%	0.0%	0.0%	0
\$1,098,301	\$389,786	\$283,543	\$75,582	1.0%	0.7%	0.5%	0.1%	2.1%	0.7%	0.5%	0.1%	1.1%	0.0%	0.0%	0.0%		4.928	4.928	4.928	0.0%	0.0%	0.0%	0
\$0	\$0	\$0	\$0																				
\$2,784,696	-\$80,596	-\$80,596	-\$80,223	34.2%	-0.8%	-0.8%	-0.8%	27.3%	-0.6%	-0.6%	-0.6%	-5.1%	0.2%	0.2%	0.2%		4.807	4.807	4.807	0.0%	0.0%	0.0%	0
\$6,460,761	\$1,460,951	-\$6,691	-\$230,489	9.4%	2.2%			11.6%	2.4%			2.0%	0.2%	0.0%	0.1%		4.807	4.807	4.807	0.0%	0.0%	0.0%	0
\$9,245,457	\$1,380,355	-\$87,287	-\$310,712	12.8%		-0.1%		14.1%		-0.1%		1.1%	0.2%	0.0%	0.1%								
\$10,881,165	\$1,712,041	\$177,964	-\$202,761	6.9%	1.1%	0.1%	-0.2%	7.2%	1.1%	0.1%	-0.1%	0.3%	0.0%	0.0%	0.1%								
\$172,641	\$12,027	-\$458,595	-\$887,550	-1.8%	0.1%	-3.3%	-6.6%	0.9%	0.1%	-2.3%	-4.5%	2.7%	0.0%	1.1%	2.2%		4.998	4.998	4.998	0.0%	0.0%	0.0%	. 0
-\$1,356,968	-\$30,458	-\$232.038	\$6,445	-4.3%	-1.7%	-1.1%	0.0%	-5.8%	-0.1%	-1.1%	0.0%	-1.6%	1.6%	0.0%	0.0%		5.301	5.301	5.301	0.0%	0.0%	0.0%	. 0
-\$1,184,327	-\$18,431	-\$690,634	-\$881,105	-2.7%	-0.6%	-2.5%	-4.1%	-2.7%	0.0%	-1.6%		0.0%	0.5%	0.9%	2.1%								
\$7,315,038	\$5,755,492	\$3.026,498	\$6,074,314	0.6%	0.49/	0.2%	0.4%	0.6%	0.49/	0.2%	0.597	0.0%	0.09/	0.1%	0.19/					l			

Unit Rev		Revenue Va	ariance		Unit Re	venues	(c/kWh	ıs)	Re	venue	% Var		Unit	Reven	ue % V	/ar	ВСЕ	F Rate	s (c/k	Wh)	% V	ar BC		tes
2016	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
15.6	-\$44,428,534	\$126,353,737	\$9,507,590	\$20,973,214	14.6	17.2	17.3	17.6	-6.3%	19.2%	1.2%	2.6%	-6.8%	18.2%	0.5%	1.6%	4.257	6.916	7.007	7.298	-20.6%	62.5%	1.3%	4.2%
15.4 12.8 11.1	-\$130,066 -\$37,214,692 \$1,198,322		\$2,439,929 -\$1,117,239		14.5 11.7 11.2	16.6 13.8 12.4	12.2	12.5	-11.6% 2.7%	9.9%	0.7%	2.4%	-8.5% 0.4%	14.7% 18.2% 10.7%	1.1% -1.5%	2.3% 2.8%	4.169		6.771 6.451 6.067	7.074 6.766 6.385	-20.7%		2.4%	4.9%
12.8 12.7 11.1	\$367,933,996 -\$2,235,798 -\$2,424,023	\$60,246,172 \$5,333,642 \$8,274,999	\$1,306,045 \$458,798 \$952,157	\$10,132,114 \$855,324 \$1.587.549	11.9 11.6 10.5	13.7 13.7		14.3 14.2 12.6	-7.0%	16.4% 17.9% 16.5%	1.3%	2.4%	-8.5%	16.9% 18.1% 15.7%	1.4%	2.3%		6.197 5.839	6.384	6.704 6.285	-20.9% -15.0%			
10.7 9.3	\$1,978,329 \$2,576,380	\$1,809,878 \$11,074,340	\$48,148 \$721,909	\$295,782 \$1,801,031	9.6 8.9	11.1	11.2 10.5		19.4%		0.3%	2.1%	-11.0%		1.2%		4.174		5.775	6.086 6.086	-13.2%		1.9%	5.4%
9.5 10.6	\$70,357,297 \$150,263,613	, . ,	. , . , .	\$2,096,812 \$4,539,686	9.0 9.9	10.5 11.6			-0.1%	18.3% 17.6%	1.2%	2.5%	-6.5%	16.4% 16.4%	1.2%									
21.5 15.0	-\$1,479,482 - <u>\$2,749,492</u> \$39,209,650	\$3,863,244 \$2,563,396 \$6,426,640	-\$374,765 - <u>\$83,657</u> - \$458,423	-\$548,962 \$318,593 -\$230,369	10.5 19.8 13.9	12.7 22.7 16.3	12.9 22.8 16.5	13.4 23.1 17.2	-11.8%	20.7% 12.5% 16.4%	-0.4%	1.4%	-7.8%	20.6% 14.4% 17.1%	0.7%	1.4%			6.325 6.639	6.628 6.948	-18.6% -25.3%			
13.9	-\$84,909,056	\$219,519,409	\$12,536,224	\$35,414,645	12.9	15.2	15.3	15.6	-6.5%	18.1%	0.9%	2.4%	-7.1%	17.6%	0.7%	2.1%								

% Change in BC Rates		Revenue Va	riance	Unit Rev	enues	c/kWhs)	Re	venue	% Var	Unit	Reven	ue % Var	BCI	F Rate	s (c/kWh)	% V	ar BC (c/kV	F Rate Nh)
2017	2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019
2.5%	\$23,171,734	\$16,986,478	\$16,321,450	16.1	16.3	16.5	3.3%	2.3%	2.2%	2.8%	1.4%	1.5%	5.756	5.998	6.244	7.3%	4.2%	4.1%
1.6%	\$2,796,170 -\$4,762,925	\$620,203 \$101,771	\$658,197 \$519.177	15.6 13.0	15.8 13.1	16.1 13.2	7.3%			1.2%		1.7%	5.770 5.507	6.018 5.574	6.270 5.641	4.4% 4.7%		4.2%
3.5% 2.1%	\$2,389,505 \$422,749	\$1,485,078 \$2,207,052	\$1,526,987 \$2,704,361	11.5 13.0	11.9	12.3 13.3	5.3%		3.1%	3.0% 2.0%	3.8%	3.8% 1.0%	5.387	5.807	6.242	7.7%		
1.7% 1.8%	\$1,079,312 \$2,043,623	\$222,959 \$1,197,491	\$265,511 \$1,109,532	12.9 11.5	13.0 11.6	13.1 11.8	3.4% 3.9%			1.7% 2.9%		0.9% 1.5%	5.386 5.127		5.607 5.464	4.1% 4.0%		2.0% 3.2%
2.4% 2.6% 2.5% 2.1%	\$3,091,176 \$8,048,712 \$11,139,888 \$14,262,823	\$61,085 <u>\$2,411,498</u> \$2,472,583 \$3,893,033	\$60,565 <u>\$921,979</u> \$982,544 \$2,357,587	10.4 9.8 9.9 10.9	10.6 9.9 10.0 11.0	10.7 10.0 10.1 11.2	30.4% 14.5% 16.9% 9.5%	3.8%	1.4%	-2.9% 4.6% 3.6% 2.4%	1.6%	1.3% 1.4% 1.4% 1.3%	5.048 5.050	5.162 5.188	5.277 5.327	5.0% 5.1%	2.3% 2.7%	
2.9% 0.7% 1.8%	\$765,060 -\$1,199,296 -\$434,236	\$272,235 \$124,352 \$396,588	-\$229,636 - <u>\$78,389</u> - \$308,025	11.8 21.3 15.3	11.9 21.8 15.5	12.2 21.9 15.8	3.8% -5.1% -1.0%	0.6%	-0.4%	5.7% -0.9% 1.8%	2.3%	2.3% 0.7% 1.8%	5.332 5.453	5.478 5.607	5.627 5.763	6.7% 2.9%		2.7% 2.8%
2.3%	\$37,423,071	\$23,483,150	\$21,075,373	14.2	14.4	14.6	2.9%	1.8%	1.6%	2.3%	1.3%	1.4%						

F Rates (c/kWh) at RR
2020
7.298
7.074
6.766
6.385
6.742
6.704
6.285
6.086
6.086
6.086
6.253
6.628
6.948
0.540

WACC	7.78%		
	Outstanding b		Target Unifo
	2019	2020	
Residential	\$0	\$0	1.5
Small General	-\$0	-\$0	1.5
General Demand	-\$0	-\$0	0.
Large General	- <u>\$0</u> - \$0	<u>-\$0</u> - \$0	3.
Total Commercial	-\$0	-\$0	0.
Small Industrial	\$0	\$0	0.
Medium Industrial	-\$0	-\$0	1.
Large Industrial Total			
Firm	-\$0	-\$0	1.0
Interruptible	<u>-\$0</u>	<u>-\$0</u> - <u>\$0</u> - \$0	1.
Large Industrial Total	- <u>\$0</u> - \$0	-\$0	1 <u>.</u>
Total Industrial	-\$0	-\$0	1.
Municipal ⁽²⁾	-\$0	-\$0	1.3
Unmetered	- <u>\$0</u> - \$0	-\$0	0.
Total Other	-\$0	<u>-\$0</u> - \$0	0.
Total FAM Classes	-\$0	-\$0	1.

		0	Wh Sales			Rev	enues priced	at 2016 bas	e cost rates		Unit	Revenue	es (c/kV	Vhs)	
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Residential	4,485.0	4,508.9	4,549.4	4,583.1	4,629.4	\$700,817,754	\$706,283,379	\$712,096,132	\$716,946,127	\$723,666,441	15.6	15.7	15.7	15.6	15.
Small General	247.6	262.7	262.3	262.1	263.4	\$38,108,102	\$40,263,949	\$40,235,065	\$40,233,862	\$40,444,080	15.4	15.3	15.3	15.4	15.
General Demand	2,509.0	2,424.7	2,413.1	2,404.7	2,408.3	\$320,755,523	\$309,962,227	\$308,475,012	\$307,400,161	\$307,861,493	12.8	12.8	12.8	12.8	12.
arge General	406.5	415.6	412.7	409.9	407.0	\$45,216,807	\$46,006,829	\$45,772,058	\$45,537,286	\$45,303,601	11.1	11.1	11.1	11.1	11.
Total Commercial	3,163.2	3,102.9	3,088.1	3,076.6	3,078.7	\$404,080,431	\$396,233,006	\$394,482,135	\$393,171,309	\$393,609,174	12.8	12.8	12.8	12.8	12.
Small Industrial	252.4	256.6	256.2	256.0	256.3	\$32,099,992	\$32,637,400	\$32,579,300	\$32,561,008	\$32,593,376	12.7	12.7	12.7	12.7	12.
fledium Industrial arge Industrial Total	470.9	475.6	479.1	481.6	482.3	\$52,466,144	\$53,564,445	\$53,954,231	\$54,237,774	\$54,313,357	11.1	11.3	11.3	11.3	11.
Firm	94.9	127.3	126.3	125.3	124.2	\$10,182,027	\$12,966,722	\$12,886,126	\$12,805,530	\$12,725,308	10.7	10.2	10.2	10.2	10.
Interruptible	596.6	652.9	667.0	666.9	663.8	\$55,620,561	\$62,081,322	\$63,542,273	\$63,535,582	\$63,305,093	9.3	9.5	9.5	9.5	9.
arge Industrial Total	691.5	780.3	793.3	792.2	788.1	\$65,802,588	\$75,048,045	\$76,428,399	\$76,341,112	\$76,030,400	9.5	9.6	9.6	9.6	9.
Total Industrial	1,414.8	1,512.5	1,528.6	1,529.8	1,526.6	\$150,368,724	\$161,249,889	\$162,961,930	\$163,139,894	\$162,937,133	10.6	10.7	10.7	10.7	10.
Municipal ⁽²⁾	181.0	177.8	178.0	172.1	160.9	\$20,149,547	\$20,322,188	\$20,334,215	\$19,875,620	\$18,988,070	11.1	11.4	11.4	11.5	113
Unmetered	108.4	103.7	101.9	100.9	100.9	\$23,289,077	\$21,932,109	\$21,901,651	\$21,669,613	\$21,676,058	21.5	21.1	21.5	21.5	21.
otal Other	289.4	281.5	279.9	273.0	261.7	\$43,438,624	\$42,254,297	\$42,235,866	\$41,545,232	\$40,664,128	15.0	15.0	15.1	15.2	15.
Total FAM Classes	9.352.4	9,405,9	9,445,9	9.462.5	9.496.5	\$1,298,705,534	\$1,306,020,572	\$1.311.776.063	\$1,314,802,562	\$1,320,876,875	13.9	13.9	13.9	13.9	13.

Revenue Requiren	nent																
·	2017	Revenue Re	equirements 2019	2020	Rever	nues priced at pr 2018	evious year's ra 2019	ntes 2020	2017	Variano 2018	e 2019	2020	2017	% Varia 2018	nce 2019 20	20	NPV of Revenue Requirement 3Y
Residential	\$656,389,220	\$782,742,957	\$792,250,547	\$813,223,761	\$713,227,121	\$661,754,353	\$788,116,333	\$799,731,861	-\$56,837,901	\$120,988,604	\$4,134,214	\$13,491,900	-8.0%	18.3%	0.5% 1.	7%	\$1,915,599,784
Small General General Demand Large General Total Commercial	\$37,978,036 \$283,540,831 <u>\$46,415,129</u> \$367,933,996	\$43,514,820 \$333,647,009 \$51,018,339 \$428,180,168	\$43,498,175 \$336,086,938 \$49,901,100 \$429,486,213	\$44,520,659 \$344,165,756 \$50,931,912 \$439,618,328	\$40,263,949 \$314,375,198 \$45,927,873 \$400,567,020	\$37,952,526 \$282,180,387 <u>\$46,177,563</u> \$366,310,476	\$43,511,240 \$332,484,449 \$50,747,412 \$426,743,100	\$43,724,931 \$336,591,322 \$49,637,273 \$429,953,526	-\$2,285,913 -\$30,834,367 <u>\$487,256</u> -\$32,633,024	\$5,562,294 \$51,466,623 \$4,840,777 \$61,869,693	-\$13,065 \$3,602,490 <u>-\$846,311</u> \$2,743,113	\$795,728 \$7,574,434 \$1,294,640 \$9,664,802	-5.7% -9.8% <u>1.1%</u> -8.1%	14.7% 18.2% 10.5% 16.9%	0.0% 1. 1.1% 2. -1.7% 2. 0.6% 2.	3% 5%	\$107,438,162 \$818,724,920 \$126,839,616 \$1,053,002,699
Small Industrial Medium Industrial Large Industrial Total	\$29,864,195 \$50,042,121	\$35,197,836 \$58,317,121	\$35,656,634 \$59,269,278 \$0	\$36,511,958 \$60,856,827	\$32,899,163 \$53,726,156	\$29,811,032 \$50,406,275	\$35,178,074 \$58,623,592	\$35,692,080 \$59,351,872	-\$3,034,969 -\$3,684,034	\$5,386,805 \$7,910,845	\$478,560 \$645,686	\$819,878 \$1,504,955	-9.2% -6.9%	18.1% 15.7%	1.4% 2. 1.1% 2.		\$86,487,335 \$143,970,292
Firm Interruptible Large Industrial Total Total Industrial	\$12,160,355 \$58,196,942 \$70,357,297 \$150,263,613	\$13,970,233 <u>\$69,271,281</u> \$83,241,515 \$176,756,472	\$14,018,382 \$69,993,191 \$84,011,572 \$178,937,484	\$14,314,164 <u>\$71,794,221</u> \$86,108,385 \$183,477,170	\$13,129,705 \$62,786,480 \$75,916,185 \$162,541,504	\$12,086,278 <u>\$59,573,945</u> \$71,660,223 \$151,877,530	\$13,880,802 \$69,263,817 \$83,144,619 \$176,946,285	\$13,928,239 \$69,732,673 \$83,660,913 \$178,704,865	-\$969,350 - <u>\$4,589,538</u> -\$5,558,888 - \$12,277,891	\$1,883,956 \$9,697,336 \$11,581,292 \$24,878,942	\$137,579 <u>\$729,374</u> \$866,953 \$1,991,199	\$385,924 \$2,061,548 \$2,447,472 \$4,772,305	-7.4% -7.3% -7.6%	15.6% 16.3% 16.2% 16.4%	1.0% 2. 1.1% 3. 1.0% 2. 1.1% 2.	9%	\$34,505,268 <u>\$169,531,494</u> \$204,036,762 \$434,494,389
Municipal ⁽²⁾ <u>Unmetered</u> Total Other	\$18,670,065 <u>\$20,539,585</u> \$39,209,650	\$22,533,310 <u>\$23,102,980</u> \$45,636,290	\$22,158,544 <u>\$23,019,323</u> \$45,177,867	\$21,609,582 \$23,337,916 \$44,947,498	\$20,658,246 <u>\$21,933,146</u> \$42,591,392	\$18,680,672 <u>\$20,533,025</u> \$39,213,697	\$22,002,689 \$22,858,214 \$44,860,904	\$21,121,386 \$23,026,169 \$44,147,555	-\$1,988,180 -\$1,393,562 -\$3,381,742	\$3,852,638 \$2,569,956 \$6,422,593	\$155,855 \$161,109 \$316,964	\$488,196 \$311,747 \$799,943	-9.6% -6.4% -7.9%	20.6% 12.5% 16.4%	0.7% 2. 0.7% 1. 0.7% 1.	4%	\$54,418,114 <u>\$57,330,587</u> \$111,748,700
Total FAM Classes	\$1,213,796,479	\$1,433,315,887	\$1,445,852,111	\$1,481,266,756	\$1,318,927,037	\$1,219,156,055	\$1,436,666,622	\$1,452,537,806	-\$105,130,558	\$214,159,832	\$9,185,490	\$28,728,950	-8.0%	17.6%	0.6% 2.	0%	\$3,514,845,572

Rate Plan														
		evenues unde Rate Increases		Reve	nues pric	ced at previous	year's rates		Variance		% 1	/arianc	•	NPV of Revenue Requirement 3Y
	2017	2018	2019	201	7	2018	2019	2017	2018	2019	2017	2018	2019	
Residential	\$723,989,488	\$740,975,966	\$757,297,416	\$713,2	27,121	\$729,961,088	\$746,039,914	\$10,762,367	\$11,014,877	\$11,257,502	1.5%	1.5%	1.5%	\$1,914,448,412
Small General General Demand Large General Total Commercial	\$40,904,272 \$315,992,597 \$47,606,312 \$404,503,181	\$41,524,474 \$316,094,368 \$49,091,390 \$406,710,233	\$42,182,671 \$316,613,546 \$50,618,376 \$409,414,594	\$314,3	27.873	\$40,874,443 \$314,476,448 \$47,360,592 \$402,711,483	\$41,522,336 \$314,992,968 \$48.833,742 \$405,349,047	\$640,323 \$1,617,399 <u>\$1,678,439</u> \$3,936,161	\$650,031 \$1,617,920 \$1,730,798 \$3,998,749	\$660,335 \$1,620,578 <u>\$1,784,634</u> \$4,065,547	1.6% 0.5% <u>3.7%</u> 1.0%	1.6% 0.5% 3.7% 1.0%	1.6% 0.5% <u>3.7%</u> 1.0%	\$107,389,100 \$818,170,667 \$126,858,906 \$1,052,418,672
Small Industrial Medium Industrial Large Industrial Total	\$33,179,305 \$54,509,767	\$33,402,264 \$55,707,258	\$33,667,775 \$56,816,790		99,163 26,156	\$33,120,240 \$54,906,432	\$33,383,510 \$56,000,014	\$280,141 \$783,611	\$282,024 \$800,826	\$284,265 \$816,776	0.9% 1.5%	0.9% 1.5%	0.9% 1.5%	\$86,428,934 \$143,909,955
Firm Interruptible Large Industrial Total Total Industrial	\$13,273,203 \$63,669,273 \$76,942,476 \$164,631,548	\$13,334,288 \$66,080,771 \$79,415,059 \$168,524,581	\$13,394,852 \$67,002,750 \$80,397,602 \$170,882,168	\$62,7	29,705 86,480 16,185 41,504	\$13,190,129 <u>\$65,164,542</u> \$78,354,671 \$166,381,344	\$13,250,039 \$66,073,737 \$79,323,776 \$168,707,300	\$143,498 \$882,793 \$1,026,291 \$2,090,044	\$144,158 <u>\$916,229</u> \$1,060,388 \$2,143,237	\$144,813 <u>\$929,013</u> \$1,073,826 \$2,174,868	1.1% 1.4% 1.4% 1.3%	1.1% 1.4% 1.4% 1.3%	1.1% 1.4% 1.4% 1.3%	\$34,492,321 \$169,473,809 \$203,966,130 \$434,305,019
Municipal ⁽²⁾ Unmetered Total Other	\$20,914,608 <u>\$22,089,781</u> \$43,004,388	\$21,186,843 <u>\$22,214,133</u> \$43,400,976	\$20,957,207 \$22,135,744 \$43,092,951	\$21,9	58,246 33,146 91,392	\$20,927,144 \$22,056,617 \$42,983,761	\$20,700,322 <u>\$21,978,784</u> \$42,679,106	\$256,362 <u>\$156,634</u> \$412,997	\$259,699 <u>\$157,516</u> \$417,215	\$256,884 \$156,960 \$413,845	1.2% 0.7% 1.0%	1.2% 0.7% 1.0%	1.2% 0.7% 1.0%	\$54,382,028 \$57,298,008 \$111,680,037
Total FAM Classes	\$1,336,128,605	\$1,359,611,755	\$1,380,687,128	\$1,318,9	27,037	\$1,342,037,676	\$1,362,775,368	\$17,201,568	\$17,574,079	\$17,911,761	1.3%	1.3%	1.3%	\$3,512,852,140
Ī														

REDACTED Fuel Stability Plan CA IR-2 Attachment 1 Page 9 of 11

Residential
Small General
General Demand
Large General
Total Commercial
Small Industrial
Medium Industrial
Large Industrial Total
Firm
Interruptible
Large Industrial Total
Total Industrial
Municipal⁽²⁾
Unmetered
Total FAM Classes

Rate Plan

Residential

Small General
General Demand
Large General
Total Commercial

Small Industrial
Medium Industrial
Large Industrial Total
Firm
Interruptible
Large Industrial Total
Total Industrial
Municipal⁽²⁾
Unmetered
Total Other

Total FAM Classes

		2016				2017				2018					2019					2020	
FX Cost		Fuel-related	Total	FX Cost		Fuel-related	Total	FX Cost		Fuel-relate	d	Total	FX Cost		Fuel-related		Total	FX Cost		Fuel-related	Total
	BCF	Adjustment Total			BCF	Adjustment Total			BCF	Adjustment	Total			BCF	Adjustment	Total			BCF	Adjustment Total	
\$460,259,589	\$240,558,16	\$5 \$0 \$240,558,165	\$700,817,754	\$464,444,528	\$241,838,85°	\$0 \$241,83	8,851 \$706,283,37	9 \$468,087,652	\$244,008,479	9	\$0 \$244,008,479	\$712,096,132	\$471,129,931	\$245,816,195	\$0	\$245,816,195	\$716,946,127	\$475,366,114	\$248,300,327	\$0 \$248,300,327	\$723,666,441
\$188,822,672	\$20,335,15	\$0 \$131,932,851 \$8 \$0 \$20,335,158	\$38,108,102 \$320,755,523 <u>\$45,216,807</u> \$404,080,431	\$182,463,420 \$25,218,945	\$14,515,177 \$127,498,807 \$20,787,885 \$162,801,869	\$0 \$127,49 \$0 \$20,78	8,807 \$309,962,22 7,885 \$46,006,82	9 \$25,741,311 7 \$181,587,951 9 \$25,126,457 6 \$232,455,719	\$14,493,755 \$126,887,06 \$20,645,60 \$162,026,41	1 <u>1</u>	\$0 \$14,493,755 \$0 \$126,887,061 \$0 \$20,645,601 \$0 \$162,026,417	\$40,235,065 \$308,475,012 \$45,772,058 \$394,482,135	\$25,750,608 \$180,955,225 \$25,033,969 \$231,739,803	\$14,483,253 \$126,444,936 <u>\$20,503,317</u> \$161,431,506	\$0 \$0 <u>\$0</u>	\$14,483,253 \$126,444,936 \$20,503,317 \$161,431,506	\$45,537,286	\$24,941,910	\$126,634,698	\$0 \$126,634,698 \$0 \$20,361,691	\$40,444,086 \$307,861,493 <u>\$45,303,609</u> \$393,609,17 4
\$19,038,685 \$29,257,033	\$13,061,30	7 \$0 \$13,061,307	\$32,099,992 \$52,466,144	\$19,356,297		8 \$0 \$13,28	1,103 \$32,637,40	0 \$19,321,840	\$13,257,460 \$23,611,429	0	\$0 \$13,257,460 \$0 \$23,611,429 \$0	\$32,579,300 \$53,954,231	\$19,310,991 \$30,502,261	\$13,250,017 \$23,735,513	\$0 \$0 \$0	\$13,250,017 \$23,735,513	\$32,561,008 \$54,237,774	\$19,330,188 \$30,544,767	\$13,263,188	\$0 \$13,263,188	\$32,593,370 \$54,313,35
\$5,621,129 <u>\$26,943,177</u> \$32,564,306 \$80,860,024	\$28,677,38 \$33,238,28	\$6 \$28,677,384 \$2 \$0 \$33,238,282	\$10,182,027 <u>\$55,620,561</u> \$65,802,588 \$150,368,724	\$6,845,904 <u>\$30,695,058</u> \$37,540,962 \$87,020,853	\$31,386,264	\$0 \$31,38 \$0 \$37,50	6,264 <u>\$62,081,32</u> 7,082 \$75,048,04	2 \$31,477,707	\$6,071,338 \$32,064,566 \$38,135,904 \$75,004,794	<u>6</u> 4	\$0 \$6,071,338 \$0 \$32,064,566 \$0 \$38,135,904 \$0 \$75,004,794	\$12,886,126 \$63,542,273 \$76,428,399 \$162,961,930	\$6,783,672 <u>\$31,475,343</u> \$38,259,016 \$88,072,268	\$38,082,097	<u>\$(</u> \$(\$6,021,858 \$32,060,238 \$38,082,097 \$75,067,626	\$12,805,530 \$63,535,582 \$76,341,112 \$163,139,894	\$6,752,700 \$31,393,935 \$38,146,635 \$88,021,590	\$31,911,157 \$37,883,765	\$0 \$31,911,157 \$0 \$37,883,765	\$12,725,308 <u>\$63,305,093</u> \$76,030,400 \$162,937,133
\$11,102,264 \$17,543,292 \$28,645,556 \$807,893,839	\$5,745,78 \$14,793,06	5 <u>\$0</u> <u>\$5,745,785</u> 9 \$0 \$14,793,069	\$20,149,547 \$23,289,077 \$43,438,624 \$1,298,705,534	\$11,434,475 <u>\$16,434,272</u> \$27,868,747	\$5,497,838	\$0 \$5,49 \$0 \$14,38	7,838 \$21,932,10 5,550 \$42,254,29	9 \$16,498,166	\$8,895,354 \$5,403,485 \$14,298,835 \$495,338,526	<u>5</u> 9	\$0 \$8,895,354 \$0 \$5,403,485 \$0 \$14,298,839 \$0 \$495,338,528	\$20,334,215 <u>\$21,901,651</u> \$42,235,866 \$1,311,776,063	\$11,271,608 \$16,323,375 \$27,594,983 \$818,536,985	\$5,346,238 \$13,950,249	\$0 <u>\$0</u> \$0	\$5,346,238 \$13,950,249	\$19,875,620 \$21,669,613 \$41,545,232 \$1,314,802,562	\$10,947,912 \$16,328,230 \$27,276,142	\$5,347,828 \$13,387,985	\$0 \$5,347,828 \$0 \$13,387,985	\$18,988,070 <u>\$21,676,058</u> \$40,664,128 \$1,320,876,875

		2016				2017					2018	_			2019					2020	_	
FX Cost	BCF	Fuel-related Adjustment Total	Total	FX Cost	BCF	Fuel-related	Total	Total	FX Cost	BCF	Fuel-related Adjustment Total	Total	FX Cost		Fuel-related Adjustment	Total	Total	FX Cost		uel-related	Total	Unit Rev
\$460,259,589	\$240,558,16	5 \$0 \$240,558,165	\$700,817,754	\$464,444,528	\$228,700,11	5 \$30,844,844.54	\$259,544,960	\$723,989,488	\$468,087,652	\$315,943,371	-\$43,055,057.92 \$272,88	3,313 \$740,975,966	\$471,129,931	\$321,240,057	-\$35,072,572.73	\$286,167,485	\$757,297,416	\$475,366,114	\$337,857,647	\$0.0 \$337,857,647	\$813,223,761	1 17.567
\$24,424,349 \$188,822,672			\$38,108,102 \$320,755,523	\$25,748,772 \$182,463,420			\$15,155,499 \$133,529,177	\$40,904,272 \$315,992,597	\$25,741,311 \$181,587,951	\$17,604,720 \$153,829,665			\$25,750,608 \$180,955,225	\$17,753,529 \$155,184,722	-\$1,321,466 -\$19,526,401	\$16,432,063 \$135,658,321			\$18,633,210 \$162,938,962	\$0 \$18,633,210 \$0 \$162,938,962	\$44,520,659 \$344,165,756	
\$24,881,649 \$238,128,670		<u>\$0</u> \$20,335,158	\$45,216,807 \$404,080,431	\$25,218,945 \$233,431,137	\$19,554,329 \$152,977,24	9 \$2,833,038		\$47,606,312 \$404,503,181	\$25,126,457 \$232,455,719	\$24,673,184 \$196,107,569	- <u>\$708,252</u> <u>\$23,96</u> - \$21,853,055 \$174,25		\$25,033,969 \$231,739,803	\$24,873,915 \$197,812,165	\$710,492 -\$20,137,375	\$25,584,407 \$177,674,790	\$50,618,376 \$409,414,594		\$25,990,002 \$207,562,174	\$0 \$25,990,002 \$0 \$207,562,174	\$50,931,912 \$439,618,328	2 12.513
	\$13,061,30 \$23,209,11		\$32,099,992 \$52,466,144	\$19,356,297 \$30,123,594	\$12,548,882 \$22,045,695			\$33,179,305 \$54,509,767	\$19,321,840 \$30,342,802	\$16,132,494 \$28,181,928	-\$2,052,070 \$14,08 -\$2,817,472 \$25,36		\$19,310,991 \$30,502,261	\$16,350,955 \$28,776,404	-\$1,994,171 -\$2,461,875	\$14,356,784 \$26,314,529	\$33,667,775 \$56,816,790	\$19,330,188 \$30,544,767		\$0 \$17,181,770 \$0 \$30,312,060	\$36,511,958 \$60,856,827	
\$5,621,129 <u>\$26,943,177</u>	\$4,560,89 \$28,677,38	<u>\$0</u> <u>\$28,677,384</u>	\$10,182,027 \$55,620,561	\$6,845,904 \$30,695,058	\$5,751,29 \$29,491,42	5 \$3,482,790	\$32,974,215	\$13,273,203 \$63,669,273	\$6,814,788 \$31,477,707	\$7,178,323 <u>\$37,910,885</u>	-\$658,823 \$6,51 - <u>\$3,307,821</u> \$34,60	,064 \$66,080,77	\$6,783,672 \$31,475,343	\$7,236,831 \$38,528,725	-\$625,651 -\$3,001,319	\$6,611,180 \$35,527,407	\$13,394,852 \$67,002,750	\$31,393,93		\$0 \$7,561,463 \$0 \$40,400,286	\$14,314,164 <u>\$71,794,221</u>	10.815
	\$33,238,28 \$69,508,70		\$65,802,588 \$150,368,724	\$37,540,962 \$87,020,853	\$35,242,719 \$69,837,29			\$76,942,476 \$164,631,548	\$38,292,495 \$87,957,136	\$45,089,208 \$89,403,630	-\$3,966,644 \$41,12 -\$8,836,186 \$80,56		\$38,259,016 \$88,072,268	\$45,765,556 \$90,892,916	-\$3,626,970 - \$8,083,016	\$42,138,587 \$82,809,900	\$80,397,602 \$170,882,168	\$38,146,638 \$88,021,590	\$47,961,749 \$95,455,580	\$0 \$47,961,749 \$0 \$95,455,580	\$86,108,385 \$183,477,170	
\$11,102,264 <u>\$17,543,292</u> \$28,645,556	\$9,047,28 \$5,745,78 \$14,793,06	<u>\$5</u> \$0 \$5,745,785	\$20,149,547 \$23,289,077 \$43,438,624	\$11,434,475 <u>\$16,434,272</u> \$27,868,747	\$8,387,562 \$5,163,406 \$13,550,968	6 \$492,103	\$5,655,509	\$20,914,608 <u>\$22,089,781</u> \$43,004,388	\$11,438,861 \$16,498,166 \$27,937,027	\$11,134,818 \$6,660,842 \$17,795,660	-\$1,386,837 \$9,74 <u>-\$944,875</u> \$5,71 -\$2,331,711 \$15,46	,967 \$22,214,133	\$11,271,608 \$16,323,375 \$27,594,983	\$10,890,680 \$6,699,251 \$17,589,931	-\$1,205,081 - <u>\$886,882</u> - \$2,091,963	\$9,685,598 <u>\$5,812,369</u> \$15,497,967	\$20,957,207 <u>\$22,135,744</u> \$43,092,951	\$10,947,912 \$16,328,230 \$27,276,14 2		\$0 \$10,661,670 \$0 \$7,009,686 \$0 \$17,671,356	\$21,609,582 <u>\$23,337,916</u> \$44,947,498	6 23.132
\$807,893,839						5 \$58,297,714.80				\$619,250,230		,220 \$1,359,611,75			-\$65.384.927		\$1,380,687,128			\$0 \$658,546,756	\$1,481,266,756	

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	В	CF Rates	s bfr Adj	. (c/kWh)	ВС	F Rates	s aft Adj	. (c/kWh	1)
Rate Classes	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
FAM Classes Residential	5.364	5.072	6.945	7.009	7.298	5.364	5.756	5.998	6.244	7.298
Small General General Demand Large General (1) Total Commercial	5.526 5.258 5.002	5.173 4.942 4.706	6.712 6.375 5.978	6.774 6.453 6.069	7.074 6.766 6.385	5.526 5.258 5.002	5.770 5.507 5.387	6.018 5.574 5.807	6.270 5.641 6.242	7.074 6.766 6.385
Small Industrial Medium Industrial (1) Large Industrial(1)	5.175 4.928	4.890 4.635 4.517	6.297 5.883	6.386 5.975 5.777	6.704 6.285 6.086	5.175 4.928 4.807	5.386 5.127 5.048	5.496 5.294	5.607 5.464	6.704 6.285 6.086
Firm Interruptible Large Industrial Total Total Industrial	4.807 4.807	4.517	5.683 5.683	5.777	6.086	4.807	5.050	5.162 5.188	5.277 5.327	6.086
Municipal <u>Unmetered ⁽²⁾</u>	4.998 5.301	4.717 4.978	6.257 6.534	6.327 6.642	6.628 6.948	4.998 5.301	5.332 5.453	5.478 5.607	5.627 5.763	6.628 6.948

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Pe	rcent (Change	9	
FAM Classes	2017	2018	2019	2020
Residential	1.5%	1.5%	1.5%	6.4%
Small General	1.6%	1.6%	1.6%	5.0%
General Demand	0.5%	0.5%	0.5%	8.5%
<u>Large General</u>	3.7%	3.7%	3.7%	1.2%
Total Commercial	1.0%	1.0%	1.0%	7.3%
Small Industrial	0.9%	0.9%	0.9%	8.3%
Medium Industrial	1.5%	1.5%	1.5%	7.0%
Large Industrial				
Firm	1.1%	1.1%	1.1%	7.5%
Interruptible	1.4%	1.4%	1.4%	7.5%
Large Industrial Total	<u>1.4%</u>	<u>1.4%</u>	<u>1.4%</u>	<u>7.5%</u>
Total Industrial	1.3%	1.3%	1.3%	7.5%
Municipal	1.2%	1.2%	1.2%	8.1%
<u>Unmetered</u>	0.7%	0.7%	0.7%	<u>5.4%</u>
Total Other	1.0%	1.0%	1.0%	6.7%
Total FAM Classes	1.3%	1.3%	1.3%	6.8%

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Class	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total 2017
Residential	\$80,558,908	\$72,710,510	\$71,463,316	\$56,939,421	\$49,233,597	\$42,063,214	\$43,349,597	\$42,612,526	\$40,898,990	\$46,426,662	\$56,095,096	\$71,810,902	\$674,162,738
Time-Of-Use	4,417,320	4,098,899	3,787,739	2,913,835	2,227,156	1,521,130	1,382,096	1,412,689	1,393,832	1,862,104	2,590,697	4,513,144	32,120,641
Total Residential	84,976,228	76,809,409	75,251,055	59,853,256	51,460,753	43,584,344	44,731,692	44,025,215	42,292,822	48,288,766	58,685,793	76,324,046	706,283,379
Small General	4,353,019	4,085,513	3,934,713	3,330,283	3,067,316	2,865,305	3,027,024	2,977,867	2,696,938	2,921,149	3,134,314	3,870,507	40,263,949
General Demand	30,476,813	28,489,419	28,574,559	24,909,782	23,067,307	23,323,534	25,094,331	24,270,097	22,667,098	24,119,125	25,926,474	29,043,688	309,962,227
Large General	3,841,022	3,633,346	3,836,854	3,673,632	3,777,029	3,753,214	4,098,595	4,280,436	4,021,388	3,733,363	3,607,836	3,750,113	46,006,829
Total Commercial	38,670,855	36,208,278	36,346,125	31,913,698	29,911,653	29,942,054	32,219,949	31,528,400	29,385,425	30,773,638	32,668,623	36,664,308	396,233,006
Small Industrial	3,017,276	2,853,841	2,806,083	2,624,081	2,640,714	2,749,939	2,805,945	2,552,196	2,479,533	2,311,586	2,720,072	3,076,134	32,637,400
Medium Industrial	4,570,379	4,281,853	4,450,156	4,343,249	4,252,416	4,534,188	4,586,873	4,581,903	4,467,908	4,474,714	4,501,536	4,519,269	53,564,445
Large Industrial - Firm	1,204,922	1,030,660	1,116,293	1,074,451	1,086,317	1,061,600	1,094,895	1,077,950	1,043,371	1,007,779	1,001,766	1,166,720	12,966,722
Large Industrial - Interruptible	4,845,162	4,436,714	4,865,339	4,662,579	4,952,659	5,335,804	5,393,804	5,993,985	5,843,127	5,469,995	5,391,154	4,890,999	62,081,322
Total Industrial	13,637,739	12,603,068	13,237,871	12,704,360	12,932,106	13,681,531	13,881,516	14,206,034	13,833,939	13,264,075	13,614,528	13,653,122	161,249,889
Municipal	2,043,629	1,893,587	1,894,691	1,640,709	1,504,438	1,448,715	1,537,749	1,541,405	1,487,375	1,628,804	1,706,992	1,994,093	20,322,188
Unmetered	1,870,514	1,813,883	1,872,974	1,875,979	1,885,695	1,770,443	1,818,049	1,874,673	1,824,728	1,685,712	1,879,153	1,760,307	21,932,109
Other Total	3,914,143	3,707,470	3,767,665	3,516,687	3,390,133	3,219,158	3,355,797	3,416,078	3,312,103	3,314,516	3,586,145	3,754,400	42,254,297
Total Above the Line Customers	141,198,965	129,328,226	128,602,717	107,988,002	97,694,644	90,427,087	94,188,956	93,175,728	88,824,290	95,640,994	108,555,089	130,395,875	1,306,020,572

GRLF Load Retention Tariff Shore Power													
1PT-RTP Total Below The Line	3,968,514	5,524,490	6,370,817	5,253,088	5,056,588	5,666,423	5,617,286	6,995,925	5,578,063	5,455,804	5,617,791	4,593,610	65,698,399
Exports	218,264	547,990	802,564	86,263	21,881	-	-	20,647	18,574	350,366	232,138	277,563	2,576,250
Total Revenue	145,385,742.60	135,400,705	135,776,097	113,327,353	102,773,113	96,093,511	99,806,241	100,192,299	94,420,927	101,447,164	114,405,018	135,267,049	1,374,295,221

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Class	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total 2018
Residential	\$81,120,585	\$73,291,020	\$72,020,754	\$57,257,294	\$49,445,305	\$42,224,697	\$43,529,857	\$42,755,292	\$41,007,462	\$46,635,041	\$56,504,440	\$72,375,532	\$678,167,278
Time-Of-Use	4,661,903	4,326,471	3,998,211	3,077,625	2,354,418	1,610,709	1,463,885	1,495,990	1,475,747	1,968,620	2,735,535	4,759,740	33,928,853
Total Residential	85,782,488	77,617,491	76,018,964	60,334,919	51,799,723	43,835,405	44,993,742	44,251,282	42,483,209	48,603,661	59,239,975	77,135,273	712,096,132
Small General	4,348,693	4,081,634	3,931,057	3,327,366	3,065,056	2,863,533	3,025,127	2,975,999	2,695,719	2,919,822	3,132,923	3,868,136	40,235,065
General Demand	30,330,584	28,352,725	28,437,457	24,790,264	22,956,629	23,211,627	24,973,927	24,153,648	22,558,340	24,003,400	25,802,077	28,904,335	308,475,012
Large General	3,821,214	3,614,846	3,816,971	3,654,875	3,758,109	3,734,410	4,077,476	4,258,275	4,000,912	3,714,624	3,589,574	3,730,773	45,772,058
Total Commercial	38,500,490	36,049,205	36,185,484	31,772,505	29,779,794	29,809,570	32,076,530	31,387,922	29,254,971	30,637,846	32,524,574	36,503,244	394,482,135
Small Industrial	3,011,904	2,848,761	2,801,087	2,619,410	2,636,013	2,745,044	2,800,949	2,547,653	2,475,119	2,307,471	2,715,230	3,070,658	32,579,300
Medium Industrial	4,603,638	4,313,012	4,482,540	4,374,855	4,283,361	4,567,183	4,620,251	4,615,245	4,500,421	4,507,276	4,534,293	4,552,155	53,954,231
Large Industrial - Firm	1,197,513	1,024,300	1,109,246	1,067,737	1,079,530	1,055,014	1,088,047	1,071,239	1,036,928	1,001,610	995,642	1,159,322	12,886,126
Large Industrial - Interruptible	5,132,988	4,719,947	5,170,089	4,960,358	5,254,521	5,335,590	5,385,354	5,989,419	5,841,801	5,470,184	5,390,890	4,891,131	63,542,273
Total Industrial	13,946,044	12,906,020	13,562,962	13,022,360	13,253,424	13,702,830	13,894,601	14,223,556	13,854,269	13,286,542	13,636,055	13,673,266	162,961,930
Municipal	2,044,938	1,894,763	1,895,868	1,641,667	1,505,273	1,449,509	1,538,619	1,542,279	1,488,202	1,629,753	1,708,008	1,995,336	20,334,215
Unmetered	1,853,715	1,797,965	1,855,964	1,858,863	1,868,358	1,755,039	1,801,772	1,857,361	1,808,182	1,671,455	1,861,451	1,744,540	21,734,666
Other Total	3,898,653	3,692,728	3,751,833	3,500,531	3,373,630	3,204,548	3,340,391	3,399,640	3,296,384	3,301,208	3,569,459	3,739,877	42,068,881
Total Above the Line Customers	142,127,675	130,265,444	129,519,243	108,630,315	98,206,571	90,552,354	94,305,264	93,262,400	88,888,833	95,829,258	108,970,062	131,051,660	1,311,609,078

3,910,185	4,871,659	4,968,983	4,199,170	4,235,526	4,250,479	4,598,631	4,829,126	4,152,652	4,360,356	5,672,482	5,696,322	55,745,572
233,552	392,130	599,124	72,971	17,103	- 04 002 022	-	16,579	14,744	290,565	100,809	108,460	1,846,037 1,369,200,688
		233,552 392,130	233,552 392,130 599,124	233,552 392,130 599,124 72,971	233,552 392,130 599,124 72,971 17,103	233,552 392,130 599,124 72,971 17,103 -	233,552 392,130 599,124 72,971 17,103	233,552 392,130 599,124 72,971 17,103 16,579	233,552 392,130 599,124 72,971 17,103 16,579 14,744	233,552 392,130 599,124 72,971 17,103 16,579 14,744 290,565	233,552 392,130 599,124 72,971 17,103 16,579 14,744 290,565 100,809	233,552 392,130 599,124 72,971 17,103 16,579 14,744 290,565 100,809 108,460

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Class	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total 2019
Residential	\$81,552,522	\$73,747,583	\$72,457,887	\$57,493,841	\$49,594,645	\$42,335,995	\$43,656,546	\$42,849,166	\$41,072,184	\$46,783,859	\$56,823,707	\$72,818,582	\$681,186,515
Time-Of-Use	4,908,612	4,556,153	4,210,686	3,243,374	2,483,648	1,702,222	1,547,530	1,581,128	1,559,432	2,076,860	2,882,033	5,007,932	35,759,612
Total Residential	86,461,134	78,303,736	76,668,572	60,737,216	52,078,293	44,038,217	45,204,075	44,430,294	42,631,616	48,860,719	59,705,740	77,826,514	716,946,127
Small General	4,347,419	4,080,607	3,930,139	3,326,732	3,064,883	2,863,698	3,025,290	2,976,154	2,696,313	2,920,479	3,133,679	3,868,468	40,233,862
General Demand	30,224,900	28,253,933	28,338,369	24,703,885	22,876,638	23,130,748	24,886,907	24,069,486	22,479,738	23,919,763	25,712,172	28,803,621	307,400,161
Large General	3,801,407	3,596,346	3,797,088	3,636,117	3,739,188	3,715,606	4,056,357	4,236,114	3,980,435	3,695,884	3,571,311	3,711,432	45,537,286
Total Commercial	38,373,725	35,930,886	36,065,596	31,666,733	29,680,710	29,710,052	31,968,555	31,281,754	29,156,486	30,536,126	32,417,163	36,383,522	393,171,309
Small Industrial	3,010,213	2,847,161	2,799,515	2,617,939	2,634,533	2,743,502	2,799,377	2,546,222	2,473,729	2,306,176	2,713,706	3,068,934	32,561,008
Medium Industrial	4,627,831	4,335,678	4,506,097	4,397,846	4,305,871	4,591,185	4,644,532	4,639,500	4,524,072	4,530,963	4,558,122	4,576,078	54,237,774
Large Industrial - Firm	1,190,104	1,017,940	1,102,198	1,061,023	1,072,743	1,048,428	1,081,199	1,064,528	1,030,485	995,441	989,517	1,151,924	12,805,530
Large Industrial - Interruptible	5,120,637	4,723,983	5,174,572	4,964,895	5,255,870	5,336,345	5,377,136	5,985,548	5,841,432	5,471,399	5,391,597	4,892,169	63,535,582
Total Industrial	13,948,785	12,924,762	13,582,381	13,041,704	13,269,017	13,719,460	13,902,244	14,235,798	13,869,717	13,303,979	13,652,942	13,689,105	163,139,894
Municipal	1,995,032	1,849,921	1,850,990	1,605,114	1,473,431	1,419,249	1,505,440	1,508,981	1,456,675	1,593,590	1,669,282	1,947,916	19,875,620
Unmetered	1,847,183	1,791,820	1,849,024	1,851,770	1,861,037	1,748,818	1,794,929	1,849,787	1,800,925	1,664,393	1,850,770	1,733,742	21,644,198
Other Total	3,842,215	3,641,740	3,700,014	3,456,884	3,334,468	3,168,067	3,300,370	3,358,767	3,257,600	3,257,982	3,520,052	3,681,658	41,519,817
Total Above the Line Customers	142,625,859	130,801,125	130,016,564	108,902,537	98,362,488	90,635,797	94,375,243	93,306,613	88,915,419	95,958,807	109,295,897	131,580,799	1,314,777,147

Exports Total Revenue	176,438 145,882,670	345,945 136,956,781	773,626 135,257,786	75,240 113.791.962	16,897 103.887.796	95.140.411	99.202.860	16,930 98.961.572	14,505 93.513.898	287,940 100,704,117	110,266 114.472.819	122,613 135,774,949	1,940,400
Total Below The Line	3,080,372	5,809,711	4,467,596	4,814,185	5,508,411	4,504,614	4,827,616	5,638,029	4,583,974	4,457,371	5,066,656	4,071,538	56,830,072
1PT-RTP													
GRLF Load Retention Tariff Shore Power													
CDIE	-	-	-	-	-	-	-	-	-	-	-	-	-

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Class	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
Residential	\$82,201,824	\$74,390,816	\$73,079,730	\$57,888,947	\$49,885,355	\$42,568,094	\$43,906,437	\$43,067,806	\$41,259,165	\$47,063,834	\$57,287,990	\$73,446,534	\$686,046,532
Time-Of-Use	5,158,363	4,788,804	4,425,955	3,411,719	2,615,361	1,796,061	1,633,389	1,668,464	1,645,237	2,187,248	3,030,730	5,258,577	37,619,909
Total Residential	87,360,187	79,179,621	77,505,685	61,300,666	52,500,716	44,364,155	45,539,826	44,736,270	42,904,401	49,251,082	60,318,720	78,705,112	723,666,441
Small General	4,369,540	4,101,424	3,950,194	3,343,580	3,080,668	2,878,650	3,041,175	2,991,748	2,710,716	2,936,239	3,150,766	3,889,380	40,444,080
General Demand	30,270,260	28,296,335	28,380,898	24,740,959	22,910,971	23,165,462	24,924,257	24,105,609	22,513,475	23,955,661	25,750,760	28,846,848	307,861,493
Large General	3,781,690	3,577,932	3,777,298	3,617,446	3,720,355	3,696,890	4,035,336	4,214,055	3,960,053	3,677,232	3,553,133	3,692,182	45,303,601
Total Commercial	38,421,491	35,975,691	36,108,389	31,701,985	29,711,994	29,741,002	32,000,768	31,311,412	29,184,243	30,569,131	32,454,660	36,428,409	393,609,174
Small Industrial	3,013,206	2,849,992	2,802,298	2,620,542	2,637,152	2,746,230	2,802,160	2,548,753	2,476,188	2,308,468	2,716,403	3,071,985	32,593,376
Medium Industrial	4,634,280	4,341,720	4,512,376	4,403,974	4,311,871	4,597,583	4,651,004	4,645,965	4,530,376	4,537,277	4,564,474	4,582,455	54,313,357
Large Industrial - Firm	1,182,729	1,011,610	1,095,183	1,054,341	1,065,987	1,041,873	1,074,383	1,057,848	1,024,072	989,301	983,421	1,144,560	12,725,308
Large Industrial - Interruptible	5,102,047	4,707,040	5,155,633	4,946,960	5,236,643	5,316,890	5,357,615	5,963,824	5,820,269	5,451,568	5,372,041	4,874,564	63,305,093
Total Industrial	17,891,626	17,351,901	18,742,603	17,975,910	17,665,985	20,450,777	18,670,414	17,910,385	18,053,922	17,220,849	18,870,642	17,721,672	218,526,685
Municipal	1,898,446	1,763,134	1,764,133	1,534,370	1,411,806	1,360,685	1,441,228	1,444,536	1,395,659	1,523,601	1,594,333	1,856,139	18,988,070
Unmetered	1,853,488	1,797,125	1,853,488	1,855,656	1,864,327	1,751,601	1,797,125	1,851,320	1,801,461	1,664,888	1,851,320	1,734,258	21,676,058
Other Total	3,751,934	3,560,259	3,617,621	3,390,026	3,276,134	3,112,286	3,238,353	3,295,857	3,197,119	3,188,489	3,445,653	3,590,397	40,664,128
Total In-Province Revenue	147,425,238	136,067,471	135,974,298	114,368,587	103,154,829	97,668,220	99,449,361	97,253,924	93,339,686	100,229,551	115,089,675	136,445,589	1,376,466,427

GRLF Load Retention Tariff Shore Power													
1PT-RTP													
Total Electric Revenue	147,633,769	136,650,299	136,857,160	114,445,542	103,176,241	97,668,220	99,449,361	97,270,274	93,352,786	100,524,655	115,254,564	136,687,293	1,378,970,164
Exports	208,531	582,828	882,862	76,955	21,412	-	-	16,350	13,100	295,104	164,889	241,704	2,503,737
Total Revenue	150,430,238	139,255,499	139,708,878	117,567,428	106,183,176	100,603,156	102,638,587	100,051,778	96,446,940	103,417,922	117,918,821	139,483,149	1,413,705,572

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2016 AA and BA Rates

	Actual Adjustment	Balance Adjustment	
Rate Class	(AA)	(BA)	FAM AA/BA
	(cents per KWh)	(cents per KWh)	Combined
Domestic Service	0.367	(0.213)	0.154
Small General	0.308	(0.308)	0.000
General	0.271	(0.089)	0.182
Large General	0.007	(0.026)	(0.019)
Small Industrial	0.211	(0.109)	0.102
Medium Industrial	0.016	0.018	0.034
Large Industrial			
Firm	0.011	0.117	0.128
Interruptible	0.011	0.097	0.108
Municipal	0.331	(0.142)	0.189
Unmetered	0.222	(0.221)	0.001

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Line #														Base Cost of I	uel Cost of Servi	ce Allocation of F	uel Expenses among R	ate Classes											
2															FOR THE YEA	AR ENDING DECI	MBER 31, 2016												
3 4	COLUMN	С	D	E	F	G	н	1	J	к	L	М	N	0	P	Q	R	s	т	U	v	w	x	Υ	z	AA	AB	AC AA	AE
6	FORMULA																												
10	-							ı																					
11				Cost	Allocation Factors											Fu	el-related Costs fr	om COS									Fuel C	osts used for FAM purpo	oses
12			3 CP Dem	nands	Energy Requ	uirement					Purchased Power- B	iomass		Purchased Power	other than Riomas	s and Wind			Purchased Power - Wind										
13				Relative Shares		Relative Shares													NRIS										
										Bio-fuel Related	Energy-related (allocated on											Total Fuel-related costs							
14	Rate Class	R/C Ratios	KW Demand	Relative Shares	KWh Energy	Relative Shares	kWhs Sales	Fuel Costs before Purchased Power		located on monthly ergy requirements)	annual energy requirements) D	emand-related	Total	ixed Energy- Fi related	xed Demand- related	Total	ERIS	Energy-related	Demand-related	Total	Total	before Exports, OM&G and Foreign Exchange	Export Revenues	OM&G costs recovered in fuels	Foreign Exchange	Total Fuel-related costs	Adjusted for R/C ratio Re and Unbalanced S		
16 R	Rate Classes (ATL) sidential	98.9%	3,644,446	61.5%	4,919,193,778		4,485,045,381	\$140,113,865	\$11,244,197	\$7,196,734	\$4,286,881	\$3,123,892	\$14,607,507	\$2,334,002	\$1,700,810	\$4,034,812	\$17,257,578	\$44,779,144	\$11,574,164	\$56,353,309	\$73,610,887	\$243,611,267	-\$115,707		\$0	\$243,495,560	\$240,695,361		,558,165 5.364
18 G	nall General eneral Demand	104.6% 102.9%	142,921 1,244,244	2.4% 21.0%	270,146,656 2,671,982,168	26.5%	247,626,335 2,509,033,552	\$7,635,010 \$74,889,037	\$672,252 \$7,066,449	\$369,401 \$3,468,320	\$235,422 \$2,328,526	\$122,507 \$1,066,523	\$727,330 \$6,863,369	\$128,176 \$1,267,771	\$66,699 \$580,671	\$194,875 \$1,848,442	\$947,732 \$9,373,882	\$2,459,130 \$24,322,903	\$453,895 \$3,951,516	\$2,913,025 \$28,274,419	\$3,860,757 \$37,648,301	\$128,315,597	-\$5,785 -\$52,776	\$0	\$0 \$0	\$13,084,439 \$128,262,821	\$132,008,095	26.9% \$131,9	,683,753 5.526 ,932,851 5.258
	rge General nall Industrial	99.4%	167,018 110.359	2.8%	430,901,949 267,260,929		406,511,273 252,384,200	\$11,981,790 \$7,469,718	\$1,217,623 \$722,035	\$522,357 \$341.800	\$375,514 \$232,907	\$143,162 \$94.596	\$1,041,033 \$669,303	\$204,449 \$126.807	\$77,945 \$51.503	\$282,394 \$178,310	\$1,511,696 \$937.608	\$3,922,476 \$2,432,861	\$530,423 \$350.483	\$4,452,900 \$2,783,344	\$5,964,595 \$3,720,952		-\$7,562 -\$5,334		\$0 \$0	\$20,479,875 \$12,754,984			,335,158 5.002 ,061,307 5.175
	edium Industrial roe Industrial	98.5% 97.4%	188,083 245,023	3.2% 4.1%	497,262,708 723,220,776	4.9%	470,917,344 691,450,769	\$13,785,394 \$19,964,161	\$1,413,029 \$2,125,102	\$609,340 \$856.858	\$433,345 \$630,258	\$161,218 \$210,025	\$1,203,902 \$1,697,141	\$235,935 \$343,145	\$87,775 \$114,349	\$323,711 \$457,494	\$1,744,503 \$2,537,212	\$4,526,554 \$6,583,438	\$597,319 \$778.154	\$5,123,874 \$7,361,592	\$6,868,377 \$9.898.804	\$23,594,413	-\$8,847 -\$11,710		\$0	\$23,585,566 \$34,130,992			,209,111 4.928 ,238,282 4.807
23 M	nicipal	97.7%	112,340	1.9%	190,519,317	1.9%	181,000,637	\$5,373,175	\$475,822	\$258,950	\$166,030	\$96,294	\$521,274	\$90,395	\$52,428	\$142,823	\$668,382	\$1,734,287	\$356,774	\$2,091,060	\$2,759,443	\$9,272,536	-\$4,139	\$0	\$0	\$9,268,397	\$9,052,444	1.8% \$9,0	.047.284 4.998
24 U 25 To	metered al	100.0% 100.0%	68,809 5,923,244	1.2% 100.0%	118,905,425 10,089,393,708		108,396,911 9,352,366,402	\$3,299,126 \$284,511,275	\$334,280 \$25,270,788	\$148,548 \$13,772,307	\$103,621 \$8,792,504	\$58,981 \$5,077,199	\$311,150 \$27,642,009	\$56,417 \$4,787,098	\$32,112 \$2,764,292	\$88,529 \$7,551,390	\$417,146 \$35,395,739	\$1,082,389 \$91,843,184	\$218,526 \$18,811,254	\$1,300,916 \$110,654,438	\$1,718,061 \$146,050,177	\$5,751,146 \$491,025,639	<u>-\$2,084</u> -\$213,944		\$0 \$0	\$5,749,062 \$490,811,695	\$5,749,062 \$491,091,617	1.2% \$5,7 100.0% \$490,8	.745,785 5.301 ,811,695 5.248
26 27 Purc	nased Power Allocation Factors.									49.8%	31.8%	18.4%	50.2%	63.4%	36.6%	100.0%	21.7%	83.0%	17.0%										
29 Non	FAM Rate Classes																												
31 1P	- RTP																												
	d Retention ore Power																												
34 To 35	al Below-the-line before Additional Energy		235,716		1,105,281,254		1,082,957,674	\$50,958,439	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,958,439	\$0		•	\$50,958,439		\$50,	,958,439 4.705
36 In Pi	ovince Total		6,158,960		11,194,674,962		10,435,324,076	\$335,469,714	\$25,270,788	\$13,772,307	\$8,792,504	\$5,077,199	\$27,642,009	\$4,787,098	\$2,764,292	\$7,551,390	\$35,395,739	\$91,843,184	\$18,811,254	\$110,654,438	\$146,050,177	\$541,984,078	-\$213,944	\$0	\$0	\$541,770,134		\$541,	,770,134 5.192
38 Expo 39	rts	100.0%	-		2,271,000		2,271,000																						
40 Gran	d Total	-	6,158,960		11,196,945,962		10,437,595,076	\$335,469,714	\$25,270,788	\$13,772,307	\$8,792,504	\$5,077,199	\$27,642,009	\$4,787,098	\$2,764,292	\$7,551,390	\$35,395,739	\$91,843,184	\$18,811,254	\$110,654,438	\$146,050,177	\$541,984,078	-\$213,944	\$ <u>0</u>	\$ <u>0</u>	\$541,770,134		\$541,	,770,134 5.191

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Base Cost of Fuel Cost of Service Allocation of Fuel Expenses among Rate Classes FOR THE YEAR ENDING DECEMBER 31, 2017 Fuel-related Costs from COS Fuel Costs used for FAM purposes Basic and Supplemental Blocks 48.7% 4,508,922,91 262,672,094 25.5% 2,424,709,117 4.4% 415,561,539 2.7% 256,631,322 5.0% 475,619,392 8.1% 780,253,951 1.8% 177,808,250 1.1% 103,719,267 100.0% 9,405,897,853 \$4,515,205 \$20,618,648 \$169,689 \$1,065,629 \$1,431,963 \$9,295,512 \$208,601 \$1,501,284 \$148,962 \$967,915 \$233,246 \$1,710,719 \$334,461 \$2,698,883 \$133,710 \$717,342 \$7,253,277 \$38,990,931 \$228,721,915
\$13,590,112
2,9%
\$119,845,522
25,8%
\$19,556,193
42,9%
\$12,550,078
2,7%
\$22,047,79
4,7%
\$35,246,079
7,6%
\$8,383,362
1,8%
\$465,109,955
100.0% 98.9% 104.6% 102.9% 99.4% 102.5% 98.5% 97.4% 97.7% 100.0% 100.0% 3,618,260 135,980 1,147,503 167,162 119,371 186,992 268,020 107,148 61,978 5,812,414 \$115,513,041 \$6,666,702 \$59,815,390 \$10,158,985 \$6,287,661 \$11,560,762 \$18,744,350 \$4,354,111 \$2,610,722 \$235,711,724 \$15,763,257 \$942,570 \$8,706,013 \$1,532,468 \$927,379 \$1,742,020 \$2,868,865 \$618,741 \$392,671 \$33,493,985 \$10,007,428 \$542,653 \$4,674,187 \$747,620 \$482,999 \$856,510 \$1,354,585 \$353,419 \$196,485 \$19,215,887 \$6,096,014 \$353,287 \$3,189,162 \$545,064 \$335,953 \$620,863 \$1,009,838 \$231,369 \$140,218 \$12,521,767 \$4,008,211 \$232,291 \$2,096,917 \$358,387 \$220,894 \$408,225 \$663,982 \$152,128 \$92,195 \$8,233,229 \$2,968,808 \$111,572 \$941,535 \$137,158 \$97,945 \$153,428 \$219,913 \$87,916 \$50,853 \$4,769,127 \$17,467,112 \$1,012,285 \$9,138,011 \$1,561,790 \$962,618 \$1,778,978 \$2,893,521 \$662,948 \$401,771 \$35,879,034 20.8% \$44,550,622 \$2,581,876 \$23,306,892 \$3,983,412 \$2,455,199 \$4,537,361 \$7,380,050 \$1,690,877 \$1,024,734 \$91,511,023 \$56,218,382 \$3,020,369 \$27,007,232 \$4,522,457 \$2,840,133 \$5,140,350 \$8,244,332 \$2,036,396 \$1,224,593 \$110,254,245 \$73,685,494 \$4,032,654 \$36,145,243 \$6,084,247 \$3,802,751 \$6,919,328 \$11,137,853 \$2,699,344 \$1,626,364 \$146,133,279 62.3% 2.3% 19.7% 2.9% 2.1% 3.2% 4.6% 1.8% 1.1% \$6,977,019 \$343,863 \$3,038,451 \$495,544 \$318,839 \$561,653 \$883,894 \$240,044 \$143,048 \$13,002,356 \$11,667,760 \$438,493 \$3,700,340 \$539,045 \$384,934 \$602,990 \$864,282 \$345,519 \$199,858 \$18,743,222 \$231,382,817 \$12,987,493 \$116,445,319 \$19,684,140 \$12,248,759 \$22,392,643 \$36,172,084 \$8,588,473 \$5,163,898 \$465,065,625 \$0 \$8,233,229 \$4,769,127 \$13,002,356 \$35,879,034 \$91,511,023 \$18,743,222 \$110,254,245 \$146,133,279 6,015,479 11.234.958.190 10.498.860.083 \$295.921.211 \$33,493,985 \$19.215.887 \$12.521.767 \$7.253.277 \$38.990.931 \$527.541.762 -\$2,266,650 \$525,275,112 \$525,275,112 48,512,000 48,512,000 6,015,479 10,547,372,083 11,283,470,190 \$19,215,887 \$12,521,767 \$7,253,277 \$38,990,931 <u>\$0</u> <u>\$8,233,229</u> <u>\$4,769,127</u> <u>\$13,002,356</u> <u>\$35,879,034</u> <u>\$91,511,023</u> <u>\$18,743,222</u> <u>\$110,254,245</u> <u>\$146,133,279</u> \$525,275,112 4.980 \$295,921,211 \$33,493,985 \$527,541,762

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\$669,506,890 6.323

Base Cost of Fuel Cost of Service Allocation of Fuel Expenses among Rate Classes FOR THE YEAR ENDING DECEMBER 31, 2018 Fuel-related Costs from COS Fuel Costs used for FAM purposes Basic and Supplemental Blocks 48.9% 4,549,374,177 2.8% 262,284,429 25.3% 2,413,075,233 4.3% 412,717,201 2.7% 256,174,479 5.0% 479,080,450 8.2% 793,335,241 1.8% 177,961,110 1.1% 101,393,265 100.0% 9,445,941,584 \$5.884.300 \$26.240.141 \$43.910.081 \$45,168.633 \$80.078.714 \$216.212 \$1.335.820 \$2.516.654 \$1.650.63 \$41.76.296 \$1.824.873 \$1.824.873 \$1.846.947 \$22.70.481 \$1.400.774 \$28.712.577 \$265.194 \$1.879.080 \$3.875.076 \$2.035.554 \$5.911.529 \$191.305 \$1.217.742 \$2.390.910 \$1.846.80 \$3.867.476 \$302.299 \$2.172.666 \$44.77.760 \$2.203.733 \$6.798.133 \$441.846 \$3.400.686 \$73.671.271 \$3.203.73 \$6.798.133 \$1.718.31 \$907.076 \$1.656.035.712 \$1.339.146 \$10.743.39 \$1.718.712 \$2.700.775 \$1.398.712 \$1.398.717 \$1.398.71 \$1.398.717 \$1.398.71 \$1.398.717 \$1.398.717 \$1.398.717 \$1.398.717 \$1.398.717 \$1.398.7 \$315,843,546 51.0% \$17,599,157 2.8% \$153,781,061 2.8% \$153,781,061 2.8% \$24,665,389 4.0% \$16,127,397 2.6% \$28,173,022 4.6% \$45,074,962 7.3% \$11,131,300 1.8% \$6.658,737 1.19% \$619,054,573 100.0% 98.9% 104.6% 102.9% 99.4% 102.5% 98.5% 97.4% 97.7% 100.0% 100.0% 3,682,079 135,292 1,141,890 165,935 119,707 189,153 276,480 107,510 61,264 5,879,309 \$105,317,156 \$5,963,130 \$53,011,519 \$8,914,564 \$5,576,797 \$10,286,092 \$16,793,993 \$3,902,924 \$2,262,967 \$212,029,142 \$11,500,337 \$693,370 \$6,443,218 \$1,151,298 \$683,932 \$1,317,475 \$2,203,214 \$458,713 \$287,893 \$24,739,450 \$12,585,950 \$674,299 \$5,806,902 \$928,039 \$601,935 \$1,078,246 \$1,737,367 \$441,879 \$240,559 \$24,095,176 \$7,254,585 \$415,788 \$3,751,166 \$640,368 \$396,353 \$739,791 \$1,214,611 \$273,932 \$162,495 \$14,849,088 \$5,494,195 \$201,875 \$1,703,865 \$247,599 \$178,620 \$282,244 \$412,548 \$160,420 \$91,415 \$8,772,781 \$12,748,779 \$617,663 \$5,455,031 \$887,967 \$574,972 \$1,022,035 \$1,627,159 \$434,352 \$253,910 \$23,621,869 \$17,571,554 \$1,007,093 \$9,085,815 \$1,551,054 \$960,018 \$1,791,871 \$2,941,948 \$663,498 \$393,584 \$35,966,435 \$46,273,851 \$2,652,131 \$23,927,062 \$4,084,627 \$2,528,162 \$4,718,807 \$7,747,480 \$1,747,291 \$1,036,486 \$94,715,896 \$58,423,409 \$3,098,545 \$27,694,895 \$4,632,155 \$2,923,151 \$5,342,946 \$8,659,764 \$2,102,036 \$11,238,636 \$114,115,537 62.6% 2.3% 19.4% 2.8% 2.0% 3.2% 4.7% 1.8% 1.0% 100.0% \$12,149,558 \$446,415 \$3,767,833 \$547,528 \$394,990 \$624,139 \$912,285 \$354,745 \$202,150 \$19,399,641 6.945 6.712 6.375 5.978 6.297 5.883 5.683 6.257 6.534 6.556 11,259,908,785 \$24.095.176 \$15.903.663 \$9.395.819 \$49.394.658 \$89.877.600 \$72.122.400 \$162.000.000 \$14.849.088 \$8.772.781 \$23.621.889 \$35.966.435 \$94.715.896 \$19.399.641 6,082,374 10.538.903.815 \$262,285,802 \$24,739,450 \$114,115,537 \$150.081.972 \$672,123,751 -\$2,616,861 \$669,506,890 \$669,506,890 6.353 50,000,000 50,000,000

\$24,095,176 \$15,903,663 \$9,395,819 \$49,394,658 \$89,877,600 \$72,122,400 \$162,000,000 \$14,849,088 \$8,772,781 \$23,621,869 \$35,966,435 \$94,715,896 \$19,399,641 \$114,115,537 \$150,081,972

\$672,123,751

6,082,374

11,309,908,785

10,588,903,815

\$262,285,802

REDACTED Fuel Stability Plan CA IR-2 Attachment 2 Page 9 of 19

\$678,876,229 6.403

\$681,634,547

Base Cost of Fuel Cost of Service Allocation of Fuel Expenses among Rate Classes FOR THE YEAR ENDING DECEMBER 31, 2019 Fuel-related Costs from COS Fuel Costs used for FAM purposes Basic and Supplemental Blocks 49.1% 4,583,077.829 262,094,393 25.1% 2,404,667,106 43.3% 409,872,862 2.7% 256,030,646 5.0% 481,598,140 8.2% 792,215,885 1.8% 172,132,498 1.1% 100,889,263 100.0% 9,462,548,623 \$6,035,884 \$26,610,771 \$44,500,988 \$46,220,677 \$90,781,635 \$1,389,548 \$1,381,188 \$25,286,665 \$1,667,990 \$4,196,656 \$1,839,545 \$1,188,941 \$25,684,645 \$1,882,742 \$25,790,17 \$141,041,076 \$38,850,047 \$266,454 \$1,882,722 \$3,870,439 \$2,043,061 \$5,913,500 \$194,266 \$1,262,921 \$2,406,61 \$1,880,744 \$3,900,564 \$308,696 \$2,206,693 \$4,526,054 \$2,366,966 \$8,893,010 \$447,397 \$3,350,813 \$45,26,054 \$2,366,966 \$8,893,010 \$1,347,397 \$3,350,813 \$45,26,054 \$1,295,569 \$2,906,123 \$388,827 \$512,826 \$379,384 \$277,776 \$8,172,777,784 \$49,855,961 \$90,560,800 \$73,439,200 \$164,000,000 \$10,400, \$321,122,563 51,2% \$17,747,035 2.8% \$155,127,962 24.7% \$24,864,817 4.0% \$16,344,975 2.6% \$28,765,879 4.6% \$45,748,817 7.3% \$10,886,696 1.7% \$6,696,801 1.1% \$66,696,801 1.19% 98.9% 104.6% 102.9% 99.4% 102.5% 98.5% 97.4% 97.7% 100.0% 100.0% 3,731,059 134,470 1,137,108 164,708 120,097 190,819 276,891 104,285 61,090 5,920,527 \$99,810,882 \$5,607,185 \$49,806,837 \$8,357,723 \$5,269,449 \$9,776,260 \$15,850,405 \$3,553,183 \$2,119,831 \$200,151,755 \$19,516,756 \$1,171,296 \$10,921,627 \$1,950,477 \$1,161,076 \$2,256,880 \$3,749,267 \$754,997 \$483,161 \$41,965,537 \$12,679,623 \$675,016 \$5,811,110 \$929,593 \$604,905 \$1,091,994 \$1,750,548 \$428,255 \$239,941 \$24,210,986 \$7,895,264 \$448,630 \$4,036,286 \$686,685 \$427,730 \$803,003 \$1,309,652 \$286,096 \$173,757 \$16,067,101 \$7,268,718 \$413,028 \$3,715,978 \$632,192 \$393,786 \$739,279 \$1,205,721 \$263,392 \$159,968 \$14,792,062 \$5,556,893 \$200,275 \$1,693,564 \$245,309 \$178,868 \$284,199 \$412,390 \$155,318 \$90,984 \$8,817,801 \$17,959,654 \$1,020,516 \$9,181,492 \$1,562,028 \$972,973 \$1,826,620 \$2,979,114 \$650,793 \$395,251 \$36,548,441 \$46,561,625 \$2,645,758 \$23,803,643 \$4,049,664 \$2,522,498 \$4,735,535 \$1,687,225 \$1,024,714 \$94,754,320 \$58,792,052 \$3,086,552 \$27,531,087 \$4,589,576 \$2,916,177 \$5,361,145 \$8,631,204 \$2,029,072 \$1,224,966 \$114,161,831 63.0% 2.3% 19.2% 2.8% 2.0% 3.2% 4.7% 1.8% 1.0% 100.0% \$12,825,611 \$613,303 \$5,409,542 \$877,501 \$572,654 \$1,023,478 \$1,618,112 \$418,710 \$250,952 \$23,609,863 \$12,230,427 \$440,794 \$3,727,445 \$539,912 \$393,679 \$625,507 \$907,649 \$341,847 \$200,252 \$19,407,511 7.009 6.774 6.453 6.069 6.386 5.975 5.777 6.327 6.642 6.632 6,123,592 11.281.098.342 10.555.510.853 \$251,492,914 \$41,965,537 \$24.210.996 \$16.067.101 \$9.577.874 \$49.855.961 \$90.560.800 \$73.439.200 \$164.000.000 \$14.792.062 \$8.817.801 \$23.609.863 \$36.548.441 \$94.754.320 \$19.407.511 \$114,161,831 \$150,710,272 \$681,634,547 -\$2,758,318 \$678,876,229 \$678,876,229 46,971,000 46,971,000

\$24,210,986 \$16,067,101 \$9,577,874 \$49,855,961 \$90,560,800 \$73,439,200 \$164,000,000 \$14,792,062 \$8,817,801 \$23,609,863 \$38,548,441 \$94,754,320 \$19,407,511 \$114,161,831 \$150,710,272

6,123,592

11,328,069,342

10,602,481,853

\$251,492,914

REDACTED Fuel Stability Plan CA IR-2 Attachment 2 Page 10 of 19

Line #									Base	Cost	of Fuel	Cos	st of So	ervice	Alloca	ation (of Fu	el Exp	enses	amon	g Rate	Class	es							
1 2														FOR THI	E YEAR END	DING DECE	MBER 31,	2020												
4 COLUMN	С	D	E	F	G	н	1	J	K	L	М	N	О Р	Q	R	s	T	U	V	w	x	Υ	z	AA	AB	AC	AD	AE AF	AG	AH
6 FORMULA																														
10																														
11			Cost Allo	cation Fact	ors													from C	0 S									Fuel Costs use	d for FAM pu	rposes
12		3 CP I	emands	Energy Reg	uirement				P	urchased Power	Riomass		Maritime	link	Purchased Po	ower other than and Wind	Biomass		Pur	chased Power - V	Wind									
		00.	l	Energy req	- I				•		Diomago					u														
13													Basic and Supplem	ental Blocks						NRIS										
								Imports (allocated on	Bio-fuel Related	Energy-related			Fixed										Total Fuel-related costs before Exports.		OM&G costs					
14 Rate Class	R/C	KW Demand		1040 E			Fuel Costs before Purchased Power	monthly energy	monthly energy	annual energy		Fixed	I Energy- Demand		Fixed Energy- F	ixed Demand-	Total	FRIS	Energy-related [Demand-related	Total	Total	OM&G and Foreign		recovered in	Foreign T	Total Fuel-related	Adjusted for R/C ratio Relativ		
15 FAM Rate Classes (ATL)			Relative Shares	KWh Energy	Relative Shares			requirements)	requirements)	requirements) L	emand-related	TOTAL TO	nateu relatet	i i i otal	related	related								Export Revenues	iueis	Exchange	000.0	and Unbalanced Share	and Balanced	cents per kWh
16 Residential 17 Small General	98.9% 104.6%	3,769,886 133,351	63.5% 2.2%	5,039,423,676 285,022,880			\$99,238,451 \$5,521,842	\$35,624,013 \$2,142,877	\$12,977,484 \$665,742		\$6,124,983 \$27 \$216,657 \$1	7,079,414 \$4 1,333,565 \$	4,685,072 \$46,700, 2,527,326 \$1,651,	474 \$91,385,545 920 \$4,179,247	\$7,304,544 \$413,135	\$5,608,689 \$198,394	\$12,913,233 \$611,529	\$18,047,917 \$1,020,765	\$46,800,767 \$2,646,987	\$12,308,767 \$435,394	\$59,109,534 \$3,082,381	\$77,157,450 \$4,103,146	\$343,398,107 \$17,892,206	-\$1,727,947 -\$91,390	\$0 \$0	\$0 \$0	\$341,670,160 \$17,800,816	\$337,740,953 51.3 \$18,626,774 2.8		
18 General Demand 19 Large General 20 Small Industrial 21 Medium Industrial	102.9% 99.4%	1,128,825 163,044	2.2% 19.0%	2,557,589,024 431,464,193	25.1%	2,408,275,91	7 \$48,782,872 \$8,083,886	\$19,954,370 \$3,551,533	\$5,783,656 \$893,435		\$1,834,017 \$11 \$264.899 \$1		2,678,397 \$13,983, 3,825,836 \$2,019		\$3,707,174 \$625,399	\$1,679,422 \$242,570	\$5,386,596 \$867,969	\$9,159,610 \$1,545,222	\$23,752,146 \$4,006,977	\$3,685,640 \$532,341	\$27,437,786 \$4,539,318	\$36,597,396 \$6,084,541	\$159,049,354 \$26,274,814	-\$787,904 -\$123,806	\$0	\$0	\$158,261,450 \$26,151,007	\$162,882,684 24.7 \$25,981,026 3.9		
20 Small Industrial	102.5%	119,927	2.7% 2.0%	270,893,418	3 2.7%	256,285,16	\$5,136,220	\$2,141,797	\$605,114	\$428,799	\$194,847 \$1	,228,760 \$	2,402,039 \$1,485,	625 \$3,887,664	\$392,655	\$178,422	\$571,077	\$970,163	\$2,515,768	\$391,564	\$2,907,331	\$3,877,494	\$16,843,013	-\$79,558	\$0	\$0	\$16,763,455	\$17,175,836 2.6	6 \$17,181,770	0 6.704
21 Medium Industrial 22 Large Industrial	98.5% 97.4%	190,701 276,226	3.2% 4.7%	508,767,440 824,300,305		482,269,269 788,090,02	\$9,528,026 \$15,332,741		\$1,071,774 \$1,667,100		\$309,834 \$2 \$448,787 \$3		4,511,292 \$2,362, 7 309 153 \$3 421		\$737,448 \$1.194.807	\$283,717 \$410,958	\$1,021,166 \$1,605,764	\$1,822,072 \$2,952,104	\$4,724,887 \$7,655,218	\$622,643 \$901,883	\$5,347,529 \$8,557,101	\$7,169,601 \$11,509,205	\$30,923,017 \$49,440,147	-\$147,484 -\$235,320	\$0 \$0	\$0 \$0	\$30,775,534 \$49,204,827	\$30,301,590 4.6 \$47,945,184 7.3		
23 Municipal 24 Unmetered	97.7%	97,572	1.6% 1.0%	169,150,226	1.7%	160,851,999	\$3,260,902	\$1,276,275	\$409,332	\$267,749	\$158,527	\$835,608 \$	1,499,872 \$1,208,	702 \$2,708,574	\$245,180	\$145,164	\$390,344	\$605,785	\$1,570,886	\$318,576	\$8,557,101 \$1,889,462	\$2,495,247	\$10,966,949	-\$54,706	\$0	\$0	\$10,912,243	\$10,657,987 1.6	6 \$10,661,670	0 6.628
24 Unmetered 25 Total	100.0%	5.940.279	1.0%	109,868,404			\$2,060,951 \$196,945,891	\$891,168 \$76,566,454	\$225,811 \$24,299,449			\$498,421 0.090,792 \$9	\$974,214 \$752, 0.413,200 \$73,586.			\$90,379 \$8.837,715	\$249,631 \$23,617,309	\$393,477 \$36,517,115	\$1,020,340 \$94,693,975	\$198,345 \$19,395,152	\$1,218,685 \$114,089,127	\$1,612,161 \$150.606.242	\$7,039,082 \$661,826,688	<u>-\$31,817</u> -\$3,279,932	\$ <u>0</u>	<u>\$0</u>	\$7,007,265 \$658,546,756	\$7,007,265 1.1 \$658,319,299 100.0		6.948 6 6.935
26	100.076	3,540,275	100.076	10,130,473,300	100.076	8,480,310,30	\$150,543,051	\$70,300,434				,,000,702 40			. , ., ., .		\$23,017,303	0.0%			\$114,005,127	\$130,000,242	9001,020,000	-90,218,802	90	30	\$000,540,750	\$030,318,288 T00.0	0 4030,340,731	0.555
27 Purchased Power Allocation Factors.									48.5%	32.2%	19.3%	51.5%	55.1% 44.	.9% 100.0%	62.6%	37.4%	100.0%	L	83.0%	17.0%										
29 Non-FAM Rate Classes 30 GRLF																														
31 1P - RTP 32 Load Retention																														
32 Load Retention 33 Shore Power																														
34 Total Below-the-line 35		203,065		1,115,512,634	1	1,093,022,242	\$50,099,906	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,099,906	\$0			\$50,099,906		\$50,099,900	6 4.584
36 In Province Total		6,143,343		11,311,992,199	9	10,589,540,60	\$247,045,797	\$76,566,454	\$24,299,449	\$16,140,094	\$9,651,249 \$50	0,090,792 \$9	0,413,200 \$73,586,	800 \$164,000,000	\$14,779,594	\$8,837,715	\$23,617,309	\$36,517,115	\$94,693,975	\$19,395,152	\$114,089,127	\$150,606,242	\$711,926,594	-\$3,279,932	\$0	\$0	\$708,646,662		\$708,646,662	6.692
	1 400 001			50 000 000	.	50,000,000	.	1							1															

		_				
1	Column	Α	В	С	D	E
2	Rate Classes	DSM Smoothing Adjustment from 2014	Outstanding Amount at the end of 2015		outstanding RS ough the FAM	A amounts
				2016	2017	2018
	ATL			.	4	40.00
	Residential	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	Small General	(\$640,113)	(\$659,316)	\$233,088	\$233,088	\$233,088
7	General Demand	\$3,292,613	\$3,391,391	\$233,066 (\$1,198,960)	\$233,066 (\$1,198,960)	(\$1,198,960)
8		(\$3,547,727)	(\$3,654,159)	\$1,291,856	\$1,291,856	\$1,291,856
9	· · · · · · · · · · · · · · · · · · ·	(\$895,227)	(\$922,084)	\$325,985	\$325,985	\$325,985
10		(\$033,221)	(\$322,004)	Ψ323,303	Ψ323,303	\$323,303
	Small Industrial	\$547,065	\$563,477	(\$199,206)	(\$199,206)	(\$199,206)
	Medium Industrial	\$292,125	\$300,889	(\$106,373)	(\$106,373)	(\$106,373)
	Total Large Industrial	\$0	\$0	\$0	\$0	\$0
	ELI 2PT - RTP*	\$0	\$0	\$0	\$0	\$0
	Total Industrial	\$839,1 90	\$864,366	(\$305,5 <mark>80</mark>)	(\$305,580)	(\$305,5 80)
16		, , , , , ,	, , , , , , , , , , , , , , , , , , , ,	(,,,,,,,,,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(+//
17	Municipal	\$0	\$0			
	Unmetered	\$56,037	\$57,718	(\$20,405)	(\$20,405)	(\$20,405)
19	Total Other	\$56,037	\$57,718	(\$20,405)	(\$20,405)	(\$20,405)
20						
	Total ATL Classes	\$0	\$0	\$0	\$0	\$0
22						
	BTL (Electric)					
	GRLF					
	Shore Power					
	1P-RTP		. 1			
	Total BTL (Electric) Classes	\$0	\$0	\$0	\$0	\$0
28	la Bassia a Tari	**	*-	**	**	*-
	In Province Total	\$0	\$0 [\$0	\$0	\$0
30						
31						

Assumptions Interest 0.03

REDACTED Fuel Stability Plan CA IR-2 Attachment 2 Page 11 of 19

MONTHLY REQUIREMENTS, SALES AND LOSSES BY RATE CLASSES IN GWh

WONTHLY REQUIREMENTS, SALES	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	Annual
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Requirements													
Residential non ToD	573	515	501	389	331	273	282	279	263	308	384	511	4,607.55
Residential ToD	44	41	41	31	21	13	12	12	12	18	27	47	318.96
Small General	32	30	29	24	22	20	21	21	18	20	22	28	285.51
General Demand Large General	253 37	238 35	238 37	207 35	192 36	193 35	208 40	204 42	188 38	200 35	213 34	243 37	2,577.33 440.50
Small Industrial	25	24	23	22	22	23	23	21	20	19	22	26	271.50
Medium Industrial	43	40	41	41	41	43	43	43	41	42	42	43	501.75
Large Industrial With Interruptible	65	59	66	62	67	70	71	77	74	70	69	66	816.10
Large Industrial Firm	12	11	12	11	11	11	11	11	11	10	10	12	133.37
Large Industrial Interruptible Only	53	48	54	51	56	59	59	66	64	60	59	53	682.73
Gen. Repl. & Load Follow.													
RTP													
Shore Power LRT													
LR I Municipal	20	18	18	15	13	12	13	14	13	15	16	20	186.98
Unmetered	10	9	10	10	10	9	9	10	9	9	10	9	113.32
In Province Total:	1,179	1,091	1,107	928	851	784	817	821	774	834	938	1,113	11,234.96
Sales													
Residential non ToD	519	466	457	358	303	254	263	258	246	284	352	459	4,216.99
Residential ToD	40	37	37	28	20	12	11	11	11	16	25	42	291.93
Small General	29	27	26	22	20	18	19	19	17	19	20	26	262.67
General Demand	239	224	223	195	180	182	196	192	178	188	201	226	2,424.71
Large General	35	33	35	33	33	33	37	39	36	33	32	34	415.56
Small Industrial	24	23	22	21	21	22	22	20	19	18	21	24	256.63
Medium Industrial	41	38	39	39	38	41	41	41	39	40	40	40	475.62
Large Industrial With Interruptible	63	56	63	60	63	67	68	74	71	67	66	63	780.25
Large Industrial Firm	12	10	11	11	11	10	11	11	10	10	10	12	127.33
Large Industrial Interruptible Only	51	46	52	49	53	56	57	63	61	57	57	51	652.92
Gen. Repl. & Load Follow.													
RTP													
Shore Power													
LRT													
Municipal	19	17	17	14	12	12	13	13	12	14	15	18	177.81
Unmetered	9	9	9	9	9	8	9	9	9	8	9	8	103.72
Total:	1,154	1,066	1,091	929	858	808	840	845	806	851	945	1,085	103.72
i Otal.	1,107	1,000	1,001	525	000	000	0+0	0-0	000	001	J-J	1,000	10,430.00

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	2017 Jan	2017 Feb	2017 Mar	2017 Apr	2017 May	2017 Jun	2017 Jul	2017 Aug	2017 Sep	2017 Oct	2017 Nov	2017 Dec	Annual Total
Losses				•					•				
Residential non ToD	54.3	49.1	44.2	30.9	27.5	18.7	19.3	21.3	17.2	23.9	31.9	52.3	390.55
Residential ToD	4.0	3.7	3.7	2.5	1.7	0.8	0.7	0.8	0.7	1.3	2.2	4.8	27.04
Small General	2.7	2.6	2.4	1.9	1.8	1.3	1.5	1.7	1.2	1.4	1.7	2.6	22.84
General Demand	14.8	14.2	15.2	11.8	11.9	10.5	11.8	12.6	9.6	11.5	11.8	17.0	152.62
Large General	2.3	2.0	2.3	1.9	2.1	1.7	2.3	2.5	1.7	2.0	1.9	2.4	24.93
Small Industrial	1.3	1.3	1.4	1.2	1.3	1.1	1.1	1.2	0.9	1.0	1.2	1.7	14.87
Medium Industrial	2.0	2.1	2.3	2.1	2.4	2.1	2.0	2.4	1.9	2.2	2.1	2.5	26.13
Large Industrial With Interruptible	2.5	2.5	3.0	2.8	3.4	3.0	3.0	3.8	2.9	3.3	2.7	3.0	35.85
Large Industrial Firm	0.5	0.5	0.6	0.5	0.6	0.4	0.5	0.5	0.4	0.5	0.4	0.6	6.04
Large Industrial Interruptible Only	2.0	2.0	2.4	2.3	2.9	2.5	2.5	3.3	2.5	2.8	2.2	2.4	29.81
Gen. Repl. & Load Follow.	2.0	2.0	2.4	2.0	2.0	2.0	2.0	0.0	2.0	2.0	2.2	2.7	20.01
RTP													
Shore Power													
LRT													
Municipal Municipal	1.0	0.9	1.0	0.8	0.7	0.6	0.6	0.7	0.5	0.7	0.7	1.1	9.17
•													9.60
Unmetered Total:	0.9 87.26	0.8 80.76	0.8 78.25	0.8 58.54	0.9 55.67	0.8 42.44	0.8 45.11	0.9 49.81	0.7 39.40	0.6 49.98	0.8 58.85	0.9 90.03	736.10
. Gtd.:						,							700.10
Losses as %Sales													
Residential non ToD	10.5%	10.5%	9.7%	8.6%	9.1%	7.3%	7.3%	8.3%	7.0%	8.4%	9.1%	11.4%	9.3%
Residential ToD	10.0%	9.9%	10.0%	8.6%	8.7%	6.7%	6.7%	7.4%	6.4%	8.1%	8.8%	11.4%	9.3%
Small General	9.4%	9.6%	9.1%	8.7%	9.3%	7.1%	7.6%	8.7%	7.2%	7.4%	8.6%	10.0%	8.7%
General Demand	6.2%	6.3%	6.8%	6.0%	6.6%	5.8%	6.0%	6.6%	5.4%	6.1%	5.9%	7.5%	6.3%
Large General	6.5%	6.0%	6.5%	5.8%	6.2%	5.0%	6.1%	6.3%	4.6%	6.1%	5.8%	6.9%	6.0%
Small Industrial Medium Industrial	5.4%	5.9%	6.3%	5.9%	6.4%	5.2%	5.0%	5.9%	4.8%	5.8%	5.7%	7.1%	5.8%
Large Industrial With Interruptible	5.0% 3.9%	5.4% 4.5%	5.8% 4.7%	5.5% 4.7%	6.4% 5.4%	5.1% 4.4%	5.0% 4.4%	5.8% 5.2%	4.8% 4.1%	5.6% 4.9%	5.2% 4.0%	6.3% 4.9%	5.5% 4.6%
Large Industrial Firm	4.3%	4.6%	5.0%	4.8%	5.4%	4.0%	4.4%	5.0%	4.1%	5.4%	4.6%	5.2%	4.7%
Large Industrial Interruptible Only	3.8%	4.4%	4.7%	4.7%	5.4%	4.5%	4.4%	5.2%	4.0%	4.8%	3.9%	4.8%	4.6%
Gen. Repl. & Load Follow.	3.0,0			111 / 0	0.17,0	110,0	,	0,0	110,0	110,0	0.00,0	,	
RTP													
Shore Power													
LRT													
Municipal	5.0%	4.9%	5.6%	5.3%	5.5%	4.7%	4.6%	5.5%	4.4%	5.1%	4.6%	6.2%	5.2%
Unmetered	9.7%	9.5%	8.9%	8.6%	10.0%	9.6%	9.9%	9.8%	8.3%	8.0%	8.5%	10.3%	9.3%
% Loss:	7.6%	7.6%	7.2%	6.3%	6.5%	5.3%	5.4%	5.9%	4.9%	5.9%	6.2%	8.3%	7.0%

MONTHLY REQUIREMENTS, SALES AND LOSSES BY RATE CLASSES IN GWh

	2018 Jan	2018 Feb	2018 Mar	2018 Apr	2018 May	2018 Jun	2018 Jul	2018 Aug	2018 Sep	2018 Oct	2018 Nov	2018 Dec	Annual Total
Requirements							001	210.9	COP				Total
Residential non ToD	575	517	503	390	331	273	283	279	263	308	385	513	4,621.19
Residential ToD	46	43	43	32	22	14	12	12	13	19	28	49	334.93
Small General	32	30	28	24	22	20	21	21	18	20	22	28	284.05
General Demand	252	237	237	206	191	192	207	203	187	199	212	241	2,562.69
Large General	37	34	37	35	35	35	39	41	38	35	34	36	437.48
Small Industrial	25	24	23	22	22	23	23	21	20	19	22	26	270.78
Medium Industrial	43	40	42	41	41	43	43	43	42	42	42	43	505.40
Large Industrial With Interruptible Large Industrial Firm	68 12	61 11	69 12	65 11	70 11	70 11	70 11	77 11	74 11	70 10	69 10	66 12	829.79 <i>133.46</i>
Large Industrial Interruptible Only	56	51	57	54	58	59	59	66	64	60	59	53	696.33
Gen. Repl. & Load Follow.	30	31	31	34	30	39	39	00	04	00	39	33	090.33
RTP													
Shore Power													
LRT													
Municipal	20	18	18	15	13	12	13	14	13	15	16	20	187.14
Unmetered	10	9	9	9	10	9	9	10	9	8	9	9	111.01
In Province Total:	1,184	1,096	1,112	932	854	784	817	820	773	834	939	1,115	11,259.91
Sales													
Residential non ToD	522	469	460	360	304	255	264	258	247	285	354	463	4,241.93
Residential ToD	42	39	39	30	21	13	12	12	12	17	26	45	307.44
Small General	29	27	26	22	20	18	19	19	17	19	20	25	262.28
General Demand	237	223	222	195	179	181	195	191	177	187	200	225	2,413.08
Large General	35	33	35	33	33	33	37	39	36	33	32	34	412.72
Small Industrial	24	23	22	21	21	22	22	20	19	18	21	24	256.17
Medium Industrial	41	38	39	39	38	41	41	41	40	40	40	40	479.08
Large Industrial With Interruptible	66	59	66	62	66	67	67	73	71	67	66	63	793.34
Large Industrial Firm	12	10	11	11	11	10	11	11	10	10	10	12	126.30
Large Industrial Interruptible Only	54	49	55	52	56	56	57	63	61	57	57	51	667.03
Gen. Repl. & Load Follow.													
RTP													
Shore Power													
LRT													
Municipal	19	17	17	14	12	12	13	13	12	14	15	18	177.96
Unmetered	9	8	9	9	9	8	8	9	8	8	9	8	101.94
Total:	1,164	1,076	1,101	937	865	809	840	845	806	852	948	1,090	10,538.90

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	2018 Jan	2018 Feb	2018 Mar	2018 Apr	2018 May	2018 Jun	2018 Jul	2018 Aug	2018 Sep	2018 Oct	2018 Nov	2018 Dec	Annual Total
Losses				- 40-	,								i otai
Residential non ToD	52.8	47.6	42.9	30.0	26.7	18.1	18.8	20.7	16.7	23.2	30.9	50.8	379.26
Residential ToD	4.1	3.8	3.8	2.5	1.7	0.8	0.7	0.8	0.7	1.4	2.2	4.9	27.49
Small General	2.6	2.5	2.3	1.8	1.7	1.2	1.4	1.6	1.2	1.3	1.7	2.4	21.77
General Demand	14.5	13.9	14.9	11.6	11.6	10.3	11.6	12.4	9.5	11.2	11.6	16.6	149.61
Large General	2.3	2.0	2.3	1.9	2.1	1.7	2.3	2.4	1.7	2.0	1.9	2.4	24.76
Small Industrial	1.3	1.3	1.4	1.2	1.3	1.1	1.1	1.2	0.9	1.0	1.2	1.7	14.60
Medium Industrial	2.0	2.1	2.3	2.1	2.4	2.1	2.1	2.4	1.9	2.2	2.1	2.6	26.32
Large Industrial With Interruptible	2.5	2.6	3.0	2.9	3.5	3.0	3.0	3.9	2.9	3.4	2.7	3.1	36.45
Large Industrial Firm	0.6	0.5	0.6	0.6	0.7	0.5	0.6	0.7	0.5	0.6	0.5	0.7	7.16
Large Industrial Interruptible Only	1.9	2.0	2.4	2.3	2.8	2.5	2.5	3.2	2.4	2.7	2.2	2.4	29.29
Gen. Repl. & Load Follow.	110	2.0		2.0	2.0	2.0	2.0	0.2	2.1	2			
RTP													
Shore Power													
LRT													
Municipal	1.0	0.9	1.0	0.8	0.7	0.6	0.6	0.7	0.5	0.7	0.7	1.1	9.18
Unmetered	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.7	0.8	9.07
Total:		78.97	76.60	57.35	54.57	41.64	44.24	48.87	38.66	49.02	57.63	88.12	721.00
Losses as %Sales													
Residential non ToD	10.1%	10.1%	9.3%	8.3%	8.8%	7.1%	7.1%	8.0%	6.8%	8.1%	8.7%	11.0%	8.9%
Residential ToD	9.7%	9.6%	9.6%	8.3%	8.4%	6.5%	6.5%	7.1%	6.2%	7.8%	8.5%	11.0%	8.9%
Small General	9.0%	9.2%	8.7%	8.3%	8.8%	6.8%	7.3%	8.3%	6.9%	7.1%	8.2%	9.6%	8.3%
General Demand	6.1%	6.2%	6.7%	5.9%	6.5%	5.7%	5.9%	6.5%	5.3%	6.0%	5.8%	7.4%	6.2%
Large General Small Industrial	6.5% 5.3%	6.0% 5.8%	6.5% 6.2%	5.8% 5.8%	6.2% 6.3%	5.0% 5.1%	6.1% 4.9%	6.3% 5.8%	4.6% 4.7%	6.1% 5.7%	5.8% 5.6%	6.9% 7.0%	6.0% 5.7%
Medium Industrial	5.0%	5.4%	5.8%	5.5%	6.4%	5.1%	4.9% 5.0%	5.8%	4.7%	5.6%	5.2%	6.3%	5.7%
Large Industrial With Interruptible	3.8%	4.3%	4.6%	4.6%	5.3%	4.5%	4.5%	5.3%	4.1%	5.0%	4.1%	5.0%	4.6%
Large Industrial Firm	5.0%	5.4%	5.8%	5.6%	6.4%	4.9%	5.3%	6.2%	5.2%	6.5%	5.5%	6.1%	5.7%
Large Industrial Interruptible Only	3.6%	4.1%	4.3%	4.4%	5.0%	4.4%	4.3%	5.1%	4.0%	4.8%	3.8%	4.7%	4.4%
Gen. Repl. & Load Follow.													
RTP Share Dawer													
Shore Power LRT													
Municipal	5.0%	4.9%	5.6%	5.3%	5.5%	4.7%	4.6%	5.5%	4.4%	5.1%	4.6%	6.2%	5.2%
Unmetered	9.3%	9.1%	8.6%	8.3%	9.6%	9.2%	9.5%	9.4%	8.0%	7.6%	8.2%	9.9%	8.9%
% Loss:		7.3%	7.0%	6.1%	6.3%	5.1%	5.3%	5.8%	4.8%	5.8%	6.1%	8.1%	6.8%

MONTHLY REQUIREMENTS, SALES AND LOSSES BY RATE CLASSES IN GWh

MONTHET REGUIREMENTS, SALES	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	Annual
_	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Requirements													
Residential non ToD	578	521	506	391	332	274	284	280	264	309	387	517	4,643.32
Residential ToD	49	45	45	34	24	14	13	13	13	20	30	52	352.01
Small General	32	30	28	24	22	20	21	21	18	20	22	28	283.85
General Demand	251	236	236	205	190	191	206	203	186	198	211	240	2,553.76
Large General	37	34	37	35	35	34	39	41	37	35	34	36	434.47
Small Industrial	25	24	23	22	22	23	23	21	20	19	22	26	270.62
Medium Industrial	43	41	42	41	41	43	44	43	42	42	42	43	508.06
Large Industrial With Interruptible	68	61	69	65	70	70	70	77	74	70	69	66	828.62
Large Industrial Firm	12	10	12	11	11	11	11	11	11	10	10	12	132.50
Large Industrial Interruptible Only Gen. Repl. & Load Follow.	56	51	57	54	58	59	59	66	64	60	59	53	696.12
RTP													
Shore Power													
LRT													
Municipal	20	18	18	14	13	12	13	13	12	14	15	19	181.01
Unmetered	9	9	9	9	10	9	9	9	9	8	9	9	109.94
In Province Total:	1,188	1,100	1,116	934	855	784	817	820	773	834	942	1,119	11,281.10
Sales													
Residential non ToD	525	472	463	361	305	256	265	259	247	286	356	465	4,260.12
Residential ToD	44	41	41	31	22	14	12	12	13	18	27	47	322.96
Small General	29	27	26	22	20	18	19	19	17	19	20	25	262.09
General Demand	237	222	221	194	178	181	195	190	177	187	200	224	2,404.67
Large General	35	32	35	33	33	33	37	39	36	33	32	34	409.87
Small Industrial	24	23	22	21	21	22	22	20	19	18	21	24	256.03
Medium Industrial	41	38	40	39	39	41	41	41	40	40	40	40	481.60
Large Industrial With Interruptible	65	59	66	62	66	67	67	73	71	67	66	62	792.22
Large Industrial Firm	12	10	11	10	11	10	11	10	10	10	10	11	125.27
Large Industrial Interruptible Only	54	49	55	52	56	56	56	63	61	57	57	51	666.94
Gen. Repl. & Load Follow.													
RTP													
Shore Power													
LRT													
Municipal	19	17	17	14	12	11	12	12	12	14	15	18	172.13
Unmetered	9	8	9	9	9	8	8	9	8	8	9	8	100.86
Total:	1,167	1,079	1,105	939	866	809	839	844	805	852	950	1,093	10,555.51

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	2017 Jan	2017 Feb	2017 Mar	2017 Apr	2017 May	2017 Jun	2017 Jul	2017 Aug	2017 Sep	2017 Oct	2017 Nov	2017 Dec	Annual Total
Losses				Į-							-		
Residential non ToD	53.3	48.1	43.3	30.3	27.0	18.3	19.0	20.9	16.8	23.4	31.3	51.3	383.20
Residential ToD	4.3	4.0	4.0	2.6	1.8	0.9	0.8	0.9	0.8	1.4	2.3	5.2	29.05
Small General	2.6	2.5	2.3	1.8	1.7	1.2	1.4	1.6	1.2	1.3	1.7	2.4	21.75
General Demand	14.4	13.8	14.9	11.5	11.6	10.3	11.5	12.3	9.4	11.2	11.5	16.6	149.09
Large General	2.3	1.9	2.3	1.9	2.0	1.7	2.2	2.4	1.7	2.0	1.8	2.3	24.59
Small Industrial	1.3	1.3	1.4	1.2	1.3	1.1	1.1	1.2	0.9	1.0	1.2	1.7	14.59
Medium Industrial	2.1	2.1	2.3	2.2	2.5	2.1	2.1	2.4	1.9	2.2	2.1	2.6	26.46
Large Industrial With Interruptible	2.5	2.6	3.0	2.9	3.5	3.0	3.0	3.9	2.9	3.4	2.7	3.1	36.40
Large Industrial Firm	0.6	0.5	0.6	0.6	0.7	0.5	0.6	0.7	0.5	0.6	0.5	0.7	7.22
Large Industrial Interruptible Only	1.9	2.0	2.4	2.3	2.8	2.5	2.4	3.2	2.4	2.7	2.2	2.4	29.18
Gen. Repl. & Load Follow.													
RTP													
Shore Power													
LRT													
Municipal	0.9	0.8	0.9	0.7	0.7	0.5	0.6	0.7	0.5	0.7	0.7	1.1	8.88
Unmetered	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.7	0.8	9.08
Total:	86.00	79.60	77.17	57.73	54.88	41.81	44.41	49.06	38.82	49.27	58.01	88.83	725.59
Losses as %Sales													
Residential non ToD	10.2%	10.2%	9.4%	8.4%	8.8%	7.2%	7.2%	8.1%	6.8%	8.2%	8.8%	11.0%	9.0%
Residential ToD	9.7%	9.7%	9.7%	8.4%	8.5%	6.5%	6.5%	7.2%	6.2%	7.9%	8.5%	11.1%	9.0%
Small General	9.0%	9.2%	8.7%	8.3%	8.8%	6.8%	7.3%	8.3%	6.9%	7.1%	8.2%	9.6%	8.3%
General Demand Large General	6.1% 6.5%	6.2% 6.0%	6.7% 6.5%	5.9% 5.8%	6.5% 6.2%	5.7% 5.0%	5.9% 6.1%	6.5% 6.3%	5.3% 4.6%	6.0% 6.1%	5.8% 5.8%	7.4% 6.9%	6.2% 6.0%
Small Industrial	5.3%	5.8%	6.2%	5.8%	6.3%	5.1%	4.9%	5.8%	4.7%	5.7%	5.6%	7.0%	5.7%
Medium Industrial	5.0%	5.4%	5.8%	5.5%	6.4%	5.1%	5.0%	5.8%	4.8%	5.6%	5.2%	6.3%	5.5%
Large Industrial With Interruptible	3.8%	4.3%	4.6%	4.6%	5.3%	4.5%	4.5%	5.3%	4.1%	5.0%	4.1%	5.0%	4.6%
Large Industrial Firm	5.1%	5.5%	5.9%	5.7%	6.5%	5.0%	5.4%	6.3%	5.3%	6.6%	5.6%	6.2%	5.8%
Large Industrial Interruptible Only Gen. Repl. & Load Follow.	3.6%	4.1%	4.3%	4.4%	5.0%	4.4%	4.3%	5.1%	3.9%	4.7%	3.8%	4.7%	4.4%
RTP													
Shore Power													
LRT													
Municipal	5.0%	4.9%	5.6%	5.3%	5.5%	4.7%	4.6%	5.5%	4.4%	5.1%	4.6%	6.2%	5.2%
Unmetered	9.4%	9.2%	8.7%	8.4%	9.7%	9.3%	9.6%	9.5%	8.0%	7.7%	8.3%	10.1%	9.0%
% Loss:	7.4%	7.4%	7.0%	6.2%	6.3%	5.2%	5.3%	5.8%	4.8%	5.8%	6.1%	8.1%	6.9%

MONTHLY REQUIREMENTS, SALES AND LOSSES BY RATE CLASSES IN GWh

MONTHLY REQUIREMENTS, SALES	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	Annual
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Requirements													
Residential non ToD	582	524	510	394	334	275	285	281	265	311	390	520	4,670.92
Residential ToD	51	47	47	36	25	15	14	14	14	21	31	54	368.50
Small General General Demand	32	30	28	24	22 190	20	21 207	21	18	20 198	22 211	28	285.02
Large General	251 37	236 34	236 37	206 34	35	191 34	39	203 41	186 37	34	33	241 36	2,557.59 431.46
Small Industrial	25	24	23	22	22	23	23	21	20	19	22	26	270.89
Medium Industrial	43	41	42	41	41	43	44	43	42	42	42	43	508.77
Large Industrial With Interruptible	67	61	68	65	69	69	70	77	74	70	68	65	824.30
Large Industrial Firm	12	10	12	11	11	11	11	11	10	10	10	12	131.48
Large Industrial Interruptible Only	55	51	57	54	58	58	59	66	63	60	58	53	692.82
Gen. Repl. & Load Follow.													
RTP Shore Power													
LRT													
Municipal Municipal	18	17	17	14	12	11	12	12	12	13	14	18	169.15
Unmetered	9	9	9	9	10	9	9	9	9	8	9	9	109.87
In Province Total:	1,192	1,105	1,121	937	856	785	817	821	773	836	945	1,124	11,311.99
Sales													
Residential non ToD	529	477	467	364	307	257	266	260	248	287	359	469	4,290.87
Residential ToD	47	43	43	33	23	14	13	13	13	19	29	49	338.52
Small General	29	27	26	22	20	18	20	19	17	19	20	26	263.42
General Demand	237	222	222	194	179	181	195	191	177	187	200	224	2,408.28
Large General	34	32	34	33	33	33	37	38	36	32	32	34	407.04
Small Industrial	24	23	22	21	21	22	22	20	19	18	21	24	256.29
Medium Industrial	41	38	40	39	39	41	42	41	40	40	40	41	482.27
Large Industrial With Interruptible	65	59	65	62	66	66	67	73	71	67	66	62	788.09
Large Industrial Firm	11	10	11	10	10	10	11	10	10	10	9	11	124.25
Large Industrial Interruptible Only	54	49	55	52	55	56	56	63	61	57	56	51	663.84
Gen. Repl. & Load Follow.													
RTP													
Shore Power													
LRT													
Municipal	18	16	16	13	11	11	12	12	11	13	14	17	160.85
Unmetered	9	8	9	9	9	8	8	9	8	8	9	8	100.89
Total:		1,084	1,109	941	867	810	840	845	806	853	953	1,098	10,589.54

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	2020 Jan	2020 Feb	2020 Mar	2020 Apr	2020 May	2020 Jun	2020 Jul	2020 Aug	2020 Sep	2020 Oct	2020 Nov	2020 Dec	Annual Total
Losses				•	-				•				
Residential non ToD	52.9	47.7	43.0	30.1	26.8	18.2	18.8	20.8	16.7	23.2	31.0	50.9	380.05
Residential ToD	4.5	4.1	4.1	2.7	1.9	0.9	0.8	0.9	0.8	1.5	2.4	5.3	29.98
Small General	2.6	2.5	2.3	1.8	1.7	1.2	1.4	1.6	1.2	1.3	1.6	2.4	21.60
General Demand	14.4	13.9	14.9	11.5	11.6	10.3	11.6	12.3	9.4	11.2	11.5	16.6	149.31
Large General	2.2	1.9	2.3	1.9	2.0	1.6	2.2	2.4	1.6	2.0	1.8	2.3	24.42
Small Industrial	1.3	1.3	1.4	1.2	1.3	1.1	1.1	1.2	0.9	1.0	1.2	1.7	14.61
Medium Industrial	2.1	2.1	2.3	2.2	2.5	2.1	2.1	2.4	1.9	2.2	2.1	2.6	26.50
Large Industrial With Interruptible	2.5	2.5	3.0	2.8	3.5	3.0	3.0	3.9	2.9	3.3	2.7	3.1	36.21
Large Industrial Firm	0.6	0.5	0.7	0.6	0.7	0.5	0.6	0.7	0.5	0.6	0.5	0.7	7.23
Large Industrial Interruptible Only	1.9	2.0	2.3	2.3	2.8	2.5	2.4	3.2	2.4	2.7	2.2	2.4	28.98
Gen. Repl. & Load Follow.													
RTP													
Shore Power													
LRT													
Municipal	0.9	0.8	0.9	0.7	0.6	0.5	0.5	0.6	0.5	0.7	0.6	1.0	8.30
Unmetered	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.7	0.8	8.98
Total:	85.61	79.25	76.85	57.49	54.64	41.63	44.21	48.83	38.65	49.05	57.76	88.47	722.45
Losses as %Sales													
Residential non ToD	10.0%	10.0%	9.2%	8.3%	8.7%	7.1%	7.1%	8.0%	6.7%	8.1%	8.6%	10.8%	8.9%
Residential ToD	9.6%	9.5%	9.5%	8.3%	8.4%	6.4%	6.4%	7.1%	6.1%	7.7%	8.4%	10.9%	8.9%
Small General	8.9%	9.1%	8.6%	8.2%	8.7%	6.7%	7.2%	8.2%	6.8%	7.0%	8.1%	9.4%	8.2%
General Demand Large General	6.1% 6.5%	6.2% 6.0%	6.7% 6.5%	5.9% 5.8%	6.5% 6.2%	5.7% 5.0%	5.9% 6.1%	6.5% 6.3%	5.3% 4.6%	6.0% 6.1%	5.8% 5.8%	7.4% 6.9%	6.2% 6.0%
Small Industrial	5.3%	5.8%	6.2%	5.8%	6.3%	5.1%	4.9%	5.8%	4.0 %	5.7%	5.6%	7.0%	5.7%
Medium Industrial	5.0%	5.4%	5.8%	5.5%	6.4%	5.1%	5.0%	5.8%	4.8%	5.6%	5.2%	6.3%	5.5%
Large Industrial With Interruptible	3.8%	4.3%	4.6%	4.6%	5.3%	4.5%	4.5%	5.3%	4.1%	5.0%	4.1%	5.0%	4.6%
Large Industrial Firm	5.1%	5.6%	6.0%	5.8%	6.6%	5.0%	5.5%	6.4%	5.4%	6.7%	5.7%	6.2%	5.8%
Large Industrial Interruptible Only	3.6%	4.1%	4.3%	4.4%	5.0%	4.4%	4.3%	5.1%	3.9%	4.7%	3.8%	4.7%	4.4%
Gen. Repl. & Load Follow. RTP													
Shore Power													
LRT													
Municipal	5.0%	4.9%	5.6%	5.3%	5.5%	4.7%	4.6%	5.5%	4.4%	5.1%	4.6%	6.2%	5.2%
Unmetered	9.3%	9.1%	8.6%	8.3%	9.6%	9.2%	9.5%	9.4%	8.0%	7.6%	8.2%	9.9%	8.9%
% Loss:	7.3%	7.3%	6.9%	6.1%	6.3%	5.1%	5.3%	5.8%	4.8%	5.7%	6.1%	8.1%	6.8%

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

CONFIDENTIAL (Attachment Only)

1	Reque	est IR-3:
2		
3	Refer	ence p. 23, Figure 2.
4		
5	(a)	Please provide in an electronic spreadsheet, with all cell formulas and file linkages
6		intact, a revised version of Figure 2 reflecting the correction described in NS
7		Power's March 21, 2016 letter to the UARB. Please provide copies of all linked
8		spreadsheet files.
9		
10	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
11		formulas and file linkages intact, relied on to derive the revised version of Figure 2.
12		
13	(c)	Please state whether the values shown in the revised Figure 2 represent percentage
14		changes in base cost of fuel revenues, base energy and (where applicable) demand
15		revenues, or total base revenues inclusive of customer-charge revenues (where
16		applicable).
17		
18	Respo	nse IR-3:
19		
20	(a-b)	Please refer to Partially Confidential Attachment 1.
21		
22	(c)	The values shown in revised Figure 2 represent percentage changes in total base revenues
23		inclusive of customer charge revenues where applicable.

Date Filed: April 8, 2016 NSPI (CA) IR-3 Page 1 of 1

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	2017 REVENUE ANALYSIS Revenues at 2016 rates Revenues at 2017 rates Revenue Variance Revenue % Var																				
			Rev	enues at	2016	rates			Revenu	es at 2	2017	rates			Revenue	Variance	!	Re	venue	% Va	r
Rate Classes	2017 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates	2016 BCF	2017 BCF	FAM A	AA FAMBA	A Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total
FAM Classes Residential	4,508.9	\$706,283,379	0.367	\$16,547,747	0.213	(\$9,604,006)	\$713,227,121	\$723,989,488	5.364	5.756	-	-	\$723,989,488	\$17,706,108	(\$16,547,747)	\$9,604,006	\$10,762,367	2.5%	-2.3%	1.3%	1.5%
Small General General Demand <u>Large General</u> ⁽¹⁾ Total Commercial	262.7 2,424.7 <u>415.6</u> 3,102.9	\$40,263,949 \$309,962,227 \$46,006,829 \$396,233,006	0.308 0.271 0.007	\$809,030 \$6,570,962 \$29,089 \$ 7,409,081	0.308 0.089 0.026	(\$809,030) (\$2,157,991) (\$108,046) (\$3,075,067)	\$40,263,949 \$314,375,198 \$45,927,873 \$400,567,020	\$40,777,661 \$316,653,666 <u>\$46,707,409</u> \$404,138,737	5.526 5.258 5.002	5.722 5.534 5.171	- - -	<u>-</u> -	\$40,777,661 \$316,653,666 <u>\$46,707,409</u> \$404,138,737	\$513,712 \$6,691,439 <u>\$700,580</u> \$7,905,731	(\$809,030) (\$6,570,962) (\$29,089) (\$7,409,081)	\$809,030 \$2,157,991 \$108,046 \$3,075,067	\$513,712 \$2,278,468 <u>\$779,536</u> \$3,571,717	1.3% 2.1% <u>1.5%</u> 2.0%	-2.0% -2.1% -0.1% -1.8%	2.0% 0.7% <u>0.2%</u> 0.8%	1.3% 0.7% <u>1.7%</u> 0.9%
Small Industrial Medium Industrial ⁽¹⁾ Large Industrial ⁽¹⁾	256.6 475.6	\$32,637,400 \$53,564,445	0.211 0.016	\$541,492 \$76,099	0.109 0.018	(\$279,728) \$85,611	\$32,899,163 \$53,726,156	\$33,288,160 \$54,385,133	5.175 4.928	5.429 5.101	-	-	\$33,288,160 \$54,385,133	\$650,760 \$820,688	(\$541,492) (\$76,099)	\$279,728 (\$85,611)	\$388,996 \$658,977	2.0% 1.5%	-1.6% -0.1%	0.9% -0.2%	1.2% 1.2%
Firm Interruptible Large Industrial Total Total Industrial	127.3 652.9 <u>780.3</u> 1,512.5	\$12,966,722 \$62,081,322 \$75,048,045 \$161,249,889	0.011 0.011 0.011	\$14,006 <u>\$71,822</u> <u>\$85,828</u> \$703,419	0.117 0.097 0.097	\$148,977 \$633,336 \$782,312 \$588,196	\$13,129,705 \$62,786,480 \$75,916,185 \$162,541,504	\$13,232,114 \$63,418,852 \$76,650,966 \$164,324,258	4.807 4.807 4.807	5.015 5.012	- 	- 	\$13,232,114 <u>\$63,418,852</u> <u>\$76,650,966</u> \$164,324,258	\$265,391 <u>\$1,337,530</u> <u>\$1,602,921</u> \$3,074,369	(\$14,006) (\$71,822) (\$85,828) (\$703,419)	(\$148,977) (\$633,336) (\$782,312) (\$588,196)	\$102,408 \$632,372 \$734,781 \$1,782,754	2.0% <u>2.1%</u> <u>2.1%</u> 1.9%	-0.1% -0.1% -0.1% -0.4%	-1.1% -1.0% -1.0% -0.4%	0.8% <u>1.0%</u> <u>1.0%</u> 1.1%
Municipal <u>Unmetered (2)</u> Total Other	177.8 103.7 281.5	\$20,322,188 <u>\$21,932,109</u> \$42,254,297	0.331 0.222	\$588,545 <u>\$230,257</u> \$818,802	0.142 0.221	(\$252,488) (<u>\$229,220)</u> (\$481,707)	\$20,658,246 <u>\$21,933,146</u> \$42,591,392	\$20,914,608 <u>\$22,101,080</u> \$43,015,688	4.998 5.301	5.332 5.464	-	<u>.</u>	\$20,914,608 <u>\$22,101,080</u> \$43,015,688	\$592,420 <u>\$168,971</u> \$761,391	(\$588,545) (\$230,257) (\$818,802)	\$252,488 <u>\$229,220</u> \$481,707	\$256,362 <u>\$167,934</u> \$424,296	2.9% <u>0.8%</u> 1.8%	-2.8% -1.0% -1.9%	1.2% <u>1.0%</u> 1.1%	1.2% <u>0.8%</u> 1.0%
Total FAM Classes	9,405.9	\$1,306,020,572		\$25,479,049		(\$12,572,585)	\$1,318,927,037	\$1,335,468,171			-	-	\$1,335,468,171 2.25%	\$29,447,599	(\$25,479,049)	\$12,572,585	\$16,541,134	2.2%	-1.9%	1.0%	1.3%
BTL GRLF 1P-RTP Shore Power LRT													2.2070								
Total BTL Classes	1,093.0	, , , , , , , , , , , , , , , , , , , ,		\$0		\$0	\$65,698,399	\$65,698,399	4.705	5.509	-	-	\$65,698,399	\$0	\$0	\$0	\$0			0%	0%
In Province Total Export	10,498.9 48.5	\$1,371,718,971 \$2,266,650		\$25,479,049 \$0		(\$12,572,585) \$0	\$1,384,625,436 \$2,266,650	\$1,401,166,570 \$2,266,650			-	-	\$1, 401 ,166, 570 \$2,266,650	\$29,447,599 \$0	(\$25,479,049) \$0	\$12,572,585 \$0	\$16,541,134 \$0	2.1% 0.0%	-1.8%	0.9% 0.0%	1.2% 0.0%
Total Electric Sales		\$1,373,985,621		\$25,479,049		*	\$1,386,892,086	\$1,403,433,220	5.191	4.980	-	-	\$1,403,433,220	\$29,447,599	(\$25,479,049)	·	\$16,541,134	2.1%		0.9%	1.2%

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							20	18 REVE	ENUE	ANA	LY	SIS									
			Reve	enues	at 201	7 rates		R	evenu	es at 2	2018	rates		R	evenue	Variand	е	Rev	/enue	% Va	ar
Rate Classes	2018 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates	2017 BCF	2018 BCF EEC	FAM AA	A FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total
FAM Classes																					
Residential	4,549.4	\$729,961,088		-		-	\$729,961,088	\$740,975,966	5.756	5.998	-	-	\$740,975,966	\$11,014,877	-	-	\$11,014,877	1.5%	0.0%	0.0%	1.59
Small General General Demand	262.3 2,413.1	\$40,748,019 \$315,134,345		-		-	\$40,748,019 \$315,134,345	\$41,267,908 \$317,418,315	5.722 5.534	5.920 5.629	-	-	\$41,267,908 \$317,418,315	\$519,888 \$2,283,970	-	- -	\$519,888 \$2,283,970	1.3% 0.7%	0.0% 0.0%	0.0% 0.0%	1.3° 0.7°
<u>Large General ⁽¹⁾</u> Total Commercial	412.7 3,088.1	\$46,467,842 \$402,350,207		<u> </u>		<u> </u>	\$46,467,842 \$402,350,207	\$47,256,543 \$405,942,767	5.171	5.362	_ -	<u> </u>	\$47,256,543 \$405,942,767	\$788,701 \$3,592,560	-	<u> </u>	<u>\$788,701</u> \$3,592,560	1.7% 0.9%	0.0% 0.0%	0.0% 0.0%	1.79 0.9 9
Small Industrial	256.2	\$33,228,902		_		_	\$33,228,902	\$33,621,797	5.429	5.582	_	_	\$33,621,797	\$392.895	_	_	\$392,895	1.2%	0.0%	0.0%	1.29
Medium Industrial ⁽¹⁾ Large Industrial ⁽¹⁾	479.1	\$54,780,891		-		-	\$54,780,891	\$55,452,804	5.101	5.241	-	-	\$55,452,804	\$671,914	-	-	\$671,914	1.2%	0.0%	0.0%	1.29
Firm	126.3	\$13,149,372		-		-	\$13,149,372	\$13,251,934	5.015	5.097	-	-	\$13,251,934	\$102,562	-	-	\$102,562	0.8%	0.0%	0.0%	0.89
Interruptible	667.0	1 ' ' '				_	\$64,908,709 \$70,050,004	\$65,562,456 \$70,044,000	5.012	5.110			\$65,562,456	\$653,747			\$653,747	1.0%	0.0%	0.0%	1.09
Large Industrial Total Total Industrial	793.3 1, 528.6	\$78,058,081 \$166,067,873				-	\$78,058,081 \$166,067,873	\$78,814,390 \$167,888,991	-				\$78,814,390 \$167,888,991	\$756,309 \$1,821,118			<u>\$756,309</u> \$1,821,118	1.0% 1.1%	0.0% 0.0%	0.0% 0.0%	1.0% 1.1 %
Municipal	178.0	\$20,927,144		-		-	\$20,927,144	\$21,186,843	5.332	5.478	_	-	\$21,186,843	\$259,699	-	-	\$259,699	1.2%	0.0%	0.0%	1.29
Unmetered (2)	<u>101.9</u>	\$21,900,737					\$21,900,737	\$22,069,702	5.464	5.629		-	\$22,069,702	\$168,964	<u>-</u>		\$168,964	0.8%	0.0%	0.0%	0.8%
Total Other	279.9	\$42,827,881		-		-	\$42,827,881	\$43,256,545			-	-	\$43,256,545	\$428,664	-	-	\$428,664	1.0%	0.0%	0.0%	1.0%
Total FAM Classes	9,445.9	\$1,341,207,050		-		-	\$1,341,207,050	\$1,358,064,268			-	-	\$1,358,064,268	\$16,857,218	-	-	\$16,857,218	1.3%	0.0%	0.0%	1.3%
BTL GRLF 1P-RTP																					
Shore Power LRT																					
Total BTL Classes	1,092.962	\$55,745,572		-		-	\$55,745,572	\$55,745,572	5.509	4.598	-	-	\$55,745,572	\$0	-	-	\$0	0%	0%	0%	0%
In Province Total	10,538.9	\$1,396,952,622		-		-	\$1,396,952,622	\$1,413,809,840			-	-	\$1,413,809,840	\$16,857,218	-	-	\$16,857,218	1.2%	0.0%	0.0%	1.2%
Export	50.0	\$2,616,861		-		-	\$2,616,861	\$2,616,861			-	-	\$2,616,861	\$0	-	-	\$0	0.0%	0.0%	0.0%	0.09
Total Electric Sales	10,588.9	\$1,399,569,483		-		-	\$1,399,569,483	\$1,416,426,701	5.191	6.323	_	-	\$1,416,426,701	\$16,857,218	-	-	\$16,857,218	1.2%	0.0%	0.0%	1.2%

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							20 ⁴	19 REV	ENUI	E AN	AL	SIS									
			Reve	nues a	at 2018	8 rates		F	Revenu	ues at	2019	rates		Re	venue \	/ariance	е	Rev	venue	% Va	ır
Rate Classes	2019 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates		2019 BCF EEC	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA I	AM BA	Tota
AM Classes esidential	4,583.1	\$746,039,914		-		-	\$746,039,914	\$757,297,416	5.998	6.244	-	-	\$757,297,416	\$11,257,502	-	-	\$11,257,502	1.5%	0.0%	0.0%	1
mall General eneral Demand	262.1 2,404.7	\$41,265,956 \$316,312,302		-		-	\$41,265,956 \$316,312,302	\$41,792,452 \$318,604,810	5.920 5.629	6.121 5.724	-	-	\$41,792,452 \$318,604,810	\$526,496 \$2,292,508	-	-	\$526,496 \$2,292,508	1.3% 0.7%	0.0% 0.0%	0.0% 0.0%	1 0
arge General ⁽¹⁾ Total Commercial	409.9 3,076.6	\$47,011,541 \$404,589,799					\$47,011,541 \$404,589,799	\$47,809,470 \$408,206,732	5.362	5.557	<u>-</u>		\$47,809,470 \$408,206,732	\$797,929 \$3,616,934			\$797,929 \$3,616,934	1.7% 0.9%	0.0% 0.0%	0.0% 0.0%	<u>1</u>
Small Industrial Medium Industrial ⁽¹⁾ arge Industrial ⁽¹⁾	256.0 481.6	\$33,602,919 \$55,744,223		-		- -	\$33,602,919 \$55,744,223	\$34,000,236 \$56,427,953	5.582 5.241	5.737 5.383	-	-	\$34,000,236 \$56,427,953	\$397,317 \$683,730	- -		\$397,317 \$683,730	1.2% 1.2%	0.0% 0.0%	0.0% 0.0%	1 1
Firm Interruptible arge Industrial Total otal Industrial	125.3 666.9 <u>792.2</u> 1,529.8	\$13,168,357 \$65,555,492 <u>\$78,723,849</u> \$168,070,991		- 		- - - -	\$13,168,357 \$65,555,492 \$78,723,849 \$168,070,991	\$13,271,067 \$66,215,753 \$79,486,820 \$169,915,009	5.097 5.110 -	5.179 5.209	- 	<u>-</u>	\$13,271,067 \$66,215,753 \$79,486,820 \$169,915,009	\$102,710 \$660,261 \$762,971 \$1,844,018	- - - -	<u>-</u>	\$102,710 \$660,261 \$762,971 \$1,844,018	0.8% <u>1.0%</u> <u>1.0%</u> 1.1%	0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0%	0 <u>1</u> <u>1</u> 1
lunicipal Inmetered ⁽²⁾ otal Other	172.1 100.9 273.0	\$20,700,322 \$21,975,684 \$42,676,006		- 		- 	\$20,700,322 \$21,975,684 \$42,676,006	\$20,957,207 \$22,144,138 \$43,101,345	5.478 5.629	5.627 5.796	<u>-</u>	<u>.</u>	\$20,957,207 <u>\$22,144,138</u> \$43,101,345	\$256,884 <u>\$168,454</u> \$425,339	- 		\$256,884 <u>\$168,454</u> \$425,339	1.2% <u>0.8%</u> 1.0%	0.0% <u>0.0%</u> 0.0%	0.0% <u>0.0%</u> 0.0%	1 <u>0</u> 1
otal FAM Classes	9,462.5	\$1,361,376,710		-		-	\$1,361,376,710	\$1,378,520,502			-	-	\$1,378,520,502	\$17,143,792	-	-	\$17,143,792	1.3%	0.0%	0.0%	1
BTL GRLF IP-RTP Ghore Power LRT																					
otal BTL Classes	1,092.962			-		-	\$56,830,072 \$1,418,206,782		4.598	-	-	-	\$56,830,072 \$1,435,350,574	\$0 \$17,143,792	-	-	\$0 \$17,143,792	1.2%	0% 0.0%	0% 0.0%	1
cport	47.0	\$1,418,206,782 \$2,758,318		<u>-</u>		- -	\$2,758,318	\$1,435,350,574			-	- -	\$2,758,318	\$17,143,792	- -	-	\$17,143,792 \$0	0.0%	0.0%	0.0%	(
Fotal Electric Sales	10,602.5	\$1,420,965,100		_		_	\$1,420,965,100	\$1,438,108,892	5.191	_	_	_	\$1,438,108,892	\$17,143,792	_	_	\$17,143,792	1.2%	0.0%	0.0%	1

REDACTED Fuel Stability Plan CA IR-3 Attachment 1 Page 4 of 11

						20	20 REV I	ENUI	= AN	ALI	(212									
		Reve	nues	at 201	9 rates		F	Revenu	ies at	2020	rates		Re	venue \	/arianc	е	Re	venue	% Va	ar
2019 Sales (GWh's)	Base Cost Rates	FAM AA Riders	FAM AA	FAM BA Riders	FAM BA	Total	Base Cost Rates		2020 BCF EEC	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA	FAM BA	Total	Base Cost Rates	FAM AA F	- AM BA	Total
4,629.4	\$764,425,506		-		-	\$764,425,506	\$813,223,761	6.244	7.298	-	-	\$813,223,761	\$48,798,255	_	-	\$48,798,255	6.4%	0.0%	0.0%	6.4%
263.4 2,408.3 <u>407.0</u> 3,078.7	\$42,010,567 \$319,082,957 \$47,560,091 \$408,653,615		- <u>-</u>		<u>:</u>	\$42,010,567 \$319,082,957 \$47,560,091 \$408,653,615	\$44,520,659 \$344,165,756 \$50,931,912 \$439,618,328	6.121 5.724 5.557	7.074 6.766 6.385	- - -	- - -	\$44,520,659 \$344,165,756 \$50,931,912 \$439,618,328	\$2,510,092 \$25,082,799 \$3,371,822 \$30,964,713	- - -	- - -	\$2,510,092 \$25,082,799 \$3,371,822 \$30,964,713	6.0% 7.9% <u>7.1%</u> 7.6 %	0.0% 0.0% <u>0.0%</u>	0.0% 0.0% <u>0.0%</u>	6.0% 7.9% <u>7.1%</u> 7.6%
256.3 482.3	\$34,034,036 \$56,506,587		-		- -	\$34,034,036 \$56,506,587	\$36,511,958 \$60,856,827	5.737 5.383	6.704 6.285	-	-	\$36,511,958 \$60,856,827	\$2,477,922 \$4,350,240	-	-	\$2,477,922 \$4,350,240	7.3% 7.7%	0.0%	0.0%	7.3% 7.7%
124.2 663.8 <u>788.1</u> 1,526.6	\$13,187,036 \$65,972,801 \$79,159,838 \$169,700,460		<u>-</u> -		<u>:</u>	\$13,187,036 \$65,972,801 \$79,159,838 \$169,700,460	\$14,314,164 \$71,794,221 \$86,108,385 \$183,477,170	5.179 5.209 -	6.086 6.086	<u>-</u>		\$14,314,164 <u>\$71,794,221</u> <u>\$86,108,385</u> \$183,477,170	\$1,127,127 \$5,821,420 \$6,948,547 \$13,776,710	<u>-</u>		\$1,127,127 \$5,821,420 \$6,948,547 \$13,776,710	8.5% <u>8.8%</u> <u>8.8%</u> 8.1%	0.0% <u>0.0%</u> <u>0.0%</u> 0.0%	0.0% <u>0.0%</u> <u>0.0%</u> 0.0%	8.5% <u>8.8%</u> <u>8.8%</u> 8.1%
160.9 <u>100.9</u> 261.7	\$19,998,777 \$22,176,147 \$42,174,923		<u>-</u>		- 	\$19,998,777 <u>\$22,176,147</u> \$42,174,923	\$21,609,582 <u>\$23,337,916</u> \$44,947,498	5.627 5.796	6.628 6.948	<u>-</u>	<u>.</u>	\$21,609,582 <u>\$23,337,916</u> \$44,947,498	\$1,610,805 <u>\$1,161,769</u> \$2,772,575	- - -	- - -	\$1,610,805 <u>\$1,161,769</u> \$2,772,575	8.1% <u>5.2%</u> 6.6%	0.0% <u>0.0%</u> 0.0%	0.0% 0.0% 0.0%	8.1% <u>5.2%</u> 6.6%
9,496.5	\$1,384,954,504		-		-	\$1,384,954,504	\$1,481,266,756			-	-	\$1,481,266,756	\$96,312,252	-	-	\$96,312,252	7.0%	0.0%	0.0%	7.0%
1,093.022 10,589.5	, , , , , , , , , , , , , , , , , , , ,		-		-	\$55,589,552 \$1,440,544,056	\$55,589,552 \$1,536,856,308	-	4.584	-	-	\$55,589,552 \$1,536,856,308	\$0 \$96,312,252	-	-	\$0 \$96,312,252	0% 6.7%	0% 0.0%	0% 0.0%	0% 6.7%
50.0	\$3,279,932		-		-	\$3,279,932	\$3,279,932	5 407		-	-	\$3,279,932	\$0	-	-	\$0	0.0%	0.0%	0.0%	0.0% 6.7%
	(GWh's) 4,629.4 263.4 2,408.3 407.0 3,078.7 256.3 482.3 124.2 663.8 788.1 1,526.6 160.9 100.9 261.7 9,496.5 1,093.022 10,589.5 50.0	4,629.4 \$764,425,506 263.4 \$42,010,567 2,408.3 \$319,082,957 407.0 \$47,560,091 3,078.7 \$408,653,615 256.3 \$34,034,036 482.3 \$56,506,587 124.2 \$13,187,036 663.8 \$65,972,801 788.1 \$79,159,838 \$169,700,460 160.9 \$19,998,777 \$22,176,147 \$42,174,923 9,496.5 \$1,384,954,504 1,093.022 \$55,589,552 10,589.5 \$1,440,544,056	(GWh's) Base Cost Rates Riders 4,629.4 \$764,425,506 263.4 \$42,010,567 2,408.3 \$319,082,957 407.0 \$47,560,091 3,078.7 \$408,653,615 256.3 \$34,034,036 482.3 \$56,506,587 124.2 \$13,187,036 663.8 \$65,972,801 788.1 \$79,159,838 1,526.6 \$19,998,777 100.9 \$22,176,147 261.7 \$42,174,923 9,496.5 \$1,384,954,504 1,093.022 \$55,589,552 10,589.5 \$1,440,544,056 50.0 \$3,279,932	(GWh's) Base Cost Rates Riders FAM AA 4,629.4 \$764,425,506 - 263.4 \$42,010,567 - 2,408.3 \$319,082,957 - 407.0 \$47,560,091 - 3,078.7 \$408,653,615 - 256.3 \$34,034,036 - 482.3 \$56,506,587 - 124.2 \$13,187,036 - 663.8 \$65,972,801 - 788.1 \$79,159,838 - 1,526.6 \$169,700,460 - 160.9 \$19,998,777 - 100.9 \$22,176,147 - 261.7 \$42,174,923 - 9,496.5 \$1,384,954,504 - 1,093.022 \$55,589,552 - 10,589.5 \$1,440,544,056 - 50.0 \$3,279,932 -	(GWh's) Base Cost Rates Riders FAM AA Riders 4,629.4 \$764,425,506 - 263.4 \$42,010,567 - 2,408.3 \$319,082,957 - 407.0 \$47,560,091 - 3,078.7 \$408,653,615 - 256.3 \$34,034,036 - 482.3 \$56,506,587 - 124.2 \$13,187,036 - 663.8 \$65,972,801 - 788.1 \$79,159,838 - 1,526.6 \$169,700,460 - 160.9 \$19,998,777 - 100.9 \$22,176,147 - 261.7 \$42,174,923 - 9,496.5 \$1,384,954,504 - 10,589.5 \$1,440,544,056 - 50.0 \$3,279,932 -	(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA 4,629.4 \$764,425,506 - - - 263.4 \$42,010,567 - - - 2,408.3 \$319,082,957 - - - 407.0 \$47,560,091 - - - - 3,078.7 \$408,653,615 - <td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total 4,629.4 \$764,425,506 - - \$764,425,506 263.4 \$42,010,567 - - \$319,082,957 2,408.3 \$319,082,957 - \$319,082,957 407.0 \$47,560,091 - \$47,560,091 3,078.7 \$408,653,615 - \$408,653,615 256.3 \$34,034,036 - - \$34,034,036 482.3 \$56,506,587 - \$56,506,587 124.2 \$13,187,036 - - \$13,187,036 663.8 \$65,972,801 - \$65,972,801 - \$65,972,801 788.1 \$79,159,838 - - \$19,998,777 - \$19,998,777 - \$19,998,777 - \$19,998,777 - \$22,176,147 - \$22,176,147 - \$42,174,923 - \$42,174,923 - \$42,174,923 - \$1,384,954,504 1,093.022 \$55,589,552</td> <td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 263.4 \$42,010,567 - - \$41,520,659 \$44,520,659 2,408.3 \$319,082,957 - - \$319,082,957 \$344,165,756 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 3,078.7 \$408,653,615 - - \$44,034,036 \$36,511,958 482.3 \$56,506,587 - - \$34,034,036 \$36,511,958 482.3 \$56,506,587 - - \$313,187,036 \$41,314,164 663.8 \$65,972,801 - - \$313,187,036 \$14,314,164 663.8 \$65,972,801 - - \$19,159,838 \$366,108,385 1,526.6 \$169,700,460 - - \$19,998,777 \$21,609,582 100.9 \$19,998,777 - - \$22,176,147<td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 263.4 \$42,010,567 - - \$42,010,567 \$44,520,659 6.121 2,408.3 \$319,082,957 - - \$319,082,957 \$344,165,756 5.724 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 5.557 3,078.7 \$408,653,615 - - \$408,653,615 \$439,618,328 256.3 \$34,034,036 - - \$343,034,036 \$365,917,801 \$60,856,827 \$60,856,827 \$60,856,827 \$56,08,587 \$60,856,927,801 \$11,3187,036 - - \$13,187,036 \$11,526,687 \$79,159,838 \$11,529,838 \$14,314,164 5.179 \$21,699,838 \$1,520,988 \$86,108,385 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460</td><td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 7.298 263.4 \$42,010,567 - - \$42,010,567 \$44,520,659 6.121 7.074 2,408.3 \$319,082,957 - - \$319,082,957 \$3341,082,957 \$344,165,756 5.724 6.766 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 5.557 6.385 256.3 \$34,034,036 - - \$3408,653,615 \$349,0481,328 5.737 6.704 482.3 \$56,506,587 - - \$34,034,036 \$36,511,958 5.737 6.704 482.3 \$13,187,036 - - \$13,187,036 \$14,314,164 5.179 6.086 865,972,801 - - \$65,972,801 \$71,594,221 5.209 6.086 \$1,526,6</td><td> GWh's Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA </td><td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 7.298 - - 263.4 \$42,010,567 - - \$42,010,567 \$349,082,957 6.766 - - 407.0 \$47,560,091 - - \$47,560,091 5.557 6.385 - - - 256.3 \$34,034,036 - - \$43,034,036 \$36,511,958 5.737 6.704 - - - \$40,034,036 \$36,511,958 5.737 6.704 - - - \$34,034,036 \$36,511,958 5.737 6.704 - - - \$31,870,366 514,314,164 5.179 6.086 - - - \$31,870,366 514,314,164 5.179 6.086 - - - \$379,159,838 - - - -</td><td> GWh's Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA Total </td><td> </td><td> Sase Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA Total Base Cost Rates FAM AA </td><td> </td><td> Company Base Cost Rates Riders FAM AA Riders FAM BA FAM BA Total </td><td> Company </td><td> </td><td> </td></td>	(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total 4,629.4 \$764,425,506 - - \$764,425,506 263.4 \$42,010,567 - - \$319,082,957 2,408.3 \$319,082,957 - \$319,082,957 407.0 \$47,560,091 - \$47,560,091 3,078.7 \$408,653,615 - \$408,653,615 256.3 \$34,034,036 - - \$34,034,036 482.3 \$56,506,587 - \$56,506,587 124.2 \$13,187,036 - - \$13,187,036 663.8 \$65,972,801 - \$65,972,801 - \$65,972,801 788.1 \$79,159,838 - - \$19,998,777 - \$19,998,777 - \$19,998,777 - \$19,998,777 - \$22,176,147 - \$22,176,147 - \$42,174,923 - \$42,174,923 - \$42,174,923 - \$1,384,954,504 1,093.022 \$55,589,552	(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 263.4 \$42,010,567 - - \$41,520,659 \$44,520,659 2,408.3 \$319,082,957 - - \$319,082,957 \$344,165,756 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 3,078.7 \$408,653,615 - - \$44,034,036 \$36,511,958 482.3 \$56,506,587 - - \$34,034,036 \$36,511,958 482.3 \$56,506,587 - - \$313,187,036 \$41,314,164 663.8 \$65,972,801 - - \$313,187,036 \$14,314,164 663.8 \$65,972,801 - - \$19,159,838 \$366,108,385 1,526.6 \$169,700,460 - - \$19,998,777 \$21,609,582 100.9 \$19,998,777 - - \$22,176,147 <td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 263.4 \$42,010,567 - - \$42,010,567 \$44,520,659 6.121 2,408.3 \$319,082,957 - - \$319,082,957 \$344,165,756 5.724 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 5.557 3,078.7 \$408,653,615 - - \$408,653,615 \$439,618,328 256.3 \$34,034,036 - - \$343,034,036 \$365,917,801 \$60,856,827 \$60,856,827 \$60,856,827 \$56,08,587 \$60,856,927,801 \$11,3187,036 - - \$13,187,036 \$11,526,687 \$79,159,838 \$11,529,838 \$14,314,164 5.179 \$21,699,838 \$1,520,988 \$86,108,385 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460</td> <td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 7.298 263.4 \$42,010,567 - - \$42,010,567 \$44,520,659 6.121 7.074 2,408.3 \$319,082,957 - - \$319,082,957 \$3341,082,957 \$344,165,756 5.724 6.766 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 5.557 6.385 256.3 \$34,034,036 - - \$3408,653,615 \$349,0481,328 5.737 6.704 482.3 \$56,506,587 - - \$34,034,036 \$36,511,958 5.737 6.704 482.3 \$13,187,036 - - \$13,187,036 \$14,314,164 5.179 6.086 865,972,801 - - \$65,972,801 \$71,594,221 5.209 6.086 \$1,526,6</td> <td> GWh's Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA </td> <td>(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 7.298 - - 263.4 \$42,010,567 - - \$42,010,567 \$349,082,957 6.766 - - 407.0 \$47,560,091 - - \$47,560,091 5.557 6.385 - - - 256.3 \$34,034,036 - - \$43,034,036 \$36,511,958 5.737 6.704 - - - \$40,034,036 \$36,511,958 5.737 6.704 - - - \$34,034,036 \$36,511,958 5.737 6.704 - - - \$31,870,366 514,314,164 5.179 6.086 - - - \$31,870,366 514,314,164 5.179 6.086 - - - \$379,159,838 - - - -</td> <td> GWh's Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA Total </td> <td> </td> <td> Sase Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA Total Base Cost Rates FAM AA </td> <td> </td> <td> Company Base Cost Rates Riders FAM AA Riders FAM BA FAM BA Total </td> <td> Company </td> <td> </td> <td> </td>	(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 263.4 \$42,010,567 - - \$42,010,567 \$44,520,659 6.121 2,408.3 \$319,082,957 - - \$319,082,957 \$344,165,756 5.724 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 5.557 3,078.7 \$408,653,615 - - \$408,653,615 \$439,618,328 256.3 \$34,034,036 - - \$343,034,036 \$365,917,801 \$60,856,827 \$60,856,827 \$60,856,827 \$56,08,587 \$60,856,927,801 \$11,3187,036 - - \$13,187,036 \$11,526,687 \$79,159,838 \$11,529,838 \$14,314,164 5.179 \$21,699,838 \$1,520,988 \$86,108,385 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460 \$189,700,460	(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 7.298 263.4 \$42,010,567 - - \$42,010,567 \$44,520,659 6.121 7.074 2,408.3 \$319,082,957 - - \$319,082,957 \$3341,082,957 \$344,165,756 5.724 6.766 407.0 \$47,560,091 - - \$47,560,091 \$50,931,912 5.557 6.385 256.3 \$34,034,036 - - \$3408,653,615 \$349,0481,328 5.737 6.704 482.3 \$56,506,587 - - \$34,034,036 \$36,511,958 5.737 6.704 482.3 \$13,187,036 - - \$13,187,036 \$14,314,164 5.179 6.086 865,972,801 - - \$65,972,801 \$71,594,221 5.209 6.086 \$1,526,6	GWh's Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA	(GWh's) Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA 4,629.4 \$764,425,506 - - \$764,425,506 \$813,223,761 6.244 7.298 - - 263.4 \$42,010,567 - - \$42,010,567 \$349,082,957 6.766 - - 407.0 \$47,560,091 - - \$47,560,091 5.557 6.385 - - - 256.3 \$34,034,036 - - \$43,034,036 \$36,511,958 5.737 6.704 - - - \$40,034,036 \$36,511,958 5.737 6.704 - - - \$34,034,036 \$36,511,958 5.737 6.704 - - - \$31,870,366 514,314,164 5.179 6.086 - - - \$31,870,366 514,314,164 5.179 6.086 - - - \$379,159,838 - - - -	GWh's Base Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA Total		Sase Cost Rates Riders FAM AA Riders FAM BA Total Base Cost Rates 2019 BCF EEC FAM AA FAM BA Total Base Cost Rates FAM AA		Company Base Cost Rates Riders FAM AA Riders FAM BA FAM BA Total	Company		

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WACC		7.78%																		
2016 Rates	2014 Rate		,		20	16									2017					
	Base	Sales (GWh)	BCF			Rate S	Stability Fu	ınd			Sales (GWh)	В	BCF			Rate St	ability Fu	nd		
Residential	Amount % \$1,945,386 54.3%	4,485.0	Recovery Requirement 2016 Rate \$240,558,165 \$240,558	es beginning	Contribution from BCF Recovery	n Deferred FAM -	DSM RSA Adjustment			Interest -\$2,094,535	4,508.9		Recovery at 2016 Rates 241,838,851.4		Contribution from BCF Recovery -\$13,138,736	Deferred FAM	DSM RSA Adjustment		Year-end bfr Interest -\$49,894,160	Interest -\$3,230,103
Small General General Demand Large General Total Commercial	\$97,112 2.7% \$863,366 24.1% \$110,492 3.1% \$1,070,970 29.9%	247.6 2,509.0 406.5 3,163.2	\$13,683,753 \$13,683 \$131,932,851 \$131,932 \$20,335,158 \$20,335 \$165,951,761 \$165,951	,851 -\$10,117,22 ,158 -\$1,294,78	3 - 3 <u>-</u>	- - -	<u>-</u>	-\$411,866 -\$3,661,666 <u>-\$468,613</u> -\$4,542,146	-\$13,778,890 -\$1,763,397	-\$118,963	262.7 2,424.7 415.6 3,102.9	\$13,588,817 \$119,834,100 <u>\$19,554,329</u> \$152,977,246	14,515,176.8 127,498,807.5 20,787,884.6 \$162,801,869	-\$1,654,414 -\$14,708,449 - <u>\$1,882,360</u> - \$18,245,222	-\$926,360 -\$7,664,708 - <u>\$1,233,556</u> -\$9,824,623	: 		-\$180,383 -\$1,603,681 <u>-\$205,236</u> -\$1,989,300	-\$2,761,157 -\$23,976,838 -\$3,321,152 - \$30,059,146	-\$1,504,858 -\$202,417
Small Industrial Medium Industrial Large Industrial Total Firm	\$86,528 2.4% \$152,898 4.3% 0.0% \$34,552.09 1.0%	252.4 470.9 94.9	\$13,061,307 \$13,061 \$23,209,111 \$23,209 \$4,560,898.00 \$4,560	,111 -\$1,791,71		-		-\$366,977 -\$648,466 -\$146.541	-\$1,380,938 -\$2,440,183 -\$551,434	-\$93,162 -\$164,621 -\$37,201	256.6 475.6 127.3	\$12,548,882 \$22,045,695 \$5,751,294	13,281,102.6 23,440,851.2 \$6,120,818	-\$1,474,100 -\$2,604,804 -\$588,635	-\$732,221 -\$1,395,156 -\$369,524	-		-\$160,723 -\$284,005 -\$64,180	-\$2,367,043 -\$4,283,966 -\$1,022,339	
Interruptible Large Industrial Total Total Industrial	\$177,175.83 4.9% \$211,728 5.9% \$451,154 12.6%	<u>596.6</u> 691.5	\$28,677,383.97 \$33,238,282 \$69,508,700 \$4,300 \$28,677,383.97 \$33,238,282 \$69,508,700	,384 -\$2,076,20 ,282 <u>-\$2,481,10</u>	8 - <u>2</u>			-\$751,430 - <u>\$897,970</u> -\$1,913,413	-\$2,827,638 -\$3,379,072 - \$7,200,193	-\$190,760 -\$227,961 -\$485,743	652.9 780.3 1,512.5	\$29,491,425 \$35,242,719 \$69,837,296	\$31,386,264 \$37,507,082 \$74,229,036	-\$3,018,397 -\$3,607,033	-\$1,894,839 -\$2,264,363 -\$4,391,740			-\$329,100 -\$393,279 -\$838,008	-\$5,242,336 -\$6,264,675 -\$12,915,684	-\$321,343 -\$384,009 - \$801,403
Municipal ⁽²⁾ <u>Unmetered</u> Total Other Total FAM Classes	\$60,971 1.7% \$53,801 1.5% \$114,772 3.2% \$3,582,281 100.0%	181.0 108.4 289.4 9,352.4	\$9,047,284 \$9,047 \$5,745,785 \$5,745 \$14,793,069 \$14,793 \$490,811,695 \$490,811	.785 .069 -\$1,344,93	<u>-</u>			-\$258,589 - <u>\$228,176</u> - \$486,765 - \$15,193,000	-\$973,073 <u>-\$858,630</u> -\$1,831,703 -\$57,171,422	-\$65,646 - <u>\$57,925</u> - \$123,571 - \$3,856,929	177.8 103.7 281.5 9,405.9	\$8,387,562 \$5,163,406 \$13,550,968 \$465,065,625	8,887,712.9 5,497,837.6 \$14,385,550 \$493,255,307		-\$500,151 <u>-\$334,432</u> -\$834,583 -\$28,189,682			-\$113,253 <u>-\$99,933</u> -\$213,186 -\$6,654,000	-\$1,652,123 -\$1,350,921 - \$3,003,043 - \$95,872,033	-\$88,205 - \$192,879
Rate Plan	2014 Rate Base	Sales (GWh)	BCF		20	16	Stability Fu	ınd			Sales (GWh)	В	BCF		2017	Rate St	ability Fu	nd		
Residential	Amount % \$1,945,386 54.3%	4,485.0	Recovery Requirement 2016 Rate \$240,558,165 \$240,558	es beginning	Contribution from BCF Recovery		DSM RSA	Additional	Year-end bfr Interest -\$31,047,382	Interest -\$2,094,535	4,508.9	_	Recovery at 2017 Rates	Year-beginning -\$33,141,917	Contribution from BCF Recovery -\$30,844,845	Deferred FAM	DSM RSA Adjustment		Year-end bfr Interest -\$67,600,268	Interest -\$3,918,871
Small General General Demand Large General Total Commercial	\$97,112 2.7% \$863,366 24.1% \$110,492 3.1% \$1,070,970 29.9%	247.6 2,509.0 406.5 3,163.2	\$13,683,753 \$13,683 \$131,932,851 \$131,932 \$20,335,158 \$20,336 \$165,951,761 \$165,951	,851 -\$10,117,22 ,158 -\$1,294,78	3 - <u>3</u> -	- - -	: :	-\$411,866 -\$3,661,666 <u>-\$468,613</u> -\$4,542,146	-\$13,778,890	-\$104,557 -\$929,559 <u>-\$118,963</u> -\$1,153,079	262.7 2,424.7 415.6 3,102.9	\$13,588,817 \$119,834,100 \$19,554,329 \$152,977,246	15,028,889.1 134,190,246.4 21,488,464.2 \$170,707,600	-\$1,654,414 -\$14,708,449 <u>-\$1,882,360</u> -\$18,245,222	-\$1,440,072 -\$14,356,147 - <u>\$1,934,135</u> - \$17,730,354	<u>.</u>	- - -	-\$180,383 -\$1,603,681 <u>-\$205,236</u> -\$1,989,300	-\$3,274,869 -\$30,668,277 <u>-\$4,021,731</u> -\$37,964,877	-\$1,765,155 -\$229,669
Small Industrial Medium Industrial Large Industrial Total	\$86,528 2.4% \$152,898 4.3%	252.4 470.9	\$13,061,307 \$13,061 \$23,209,111 \$23,209	,111 -\$1,791,71	-	-	-	-\$366,977 -\$648,466	-\$2,440,183	-\$93,162 -\$164,621	256.6 475.6	\$12,548,882 \$22,045,695	13,931,862.8 24,261,538.8	-\$1,474,100 -\$2,604,804	-\$2,215,844	-	-	-\$160,723 -\$284,005	-\$5,104,653	-\$299,898 #DIV/0!
Firm Interruptible Large Industrial Total Total Industrial	\$34,552.09 1.0% \$177,175.83 4.9% \$211,728 5.9% \$451,154 12.6%	94.9 <u>596.6</u> 691.5 1,414.8	\$4,560,898.00 \$4,560 \$28,677,383.97 \$28,677 \$33,238,282 \$33,238 \$69,508,700 \$69,508	,384 -\$2,076,20 ,282 <u>-\$2,481,10</u>	8 - <u>2</u>			-\$146,541 -\$751,430 <u>-\$897,970</u> -\$1,913,413	-\$551,434 -\$2,827,638 <u>-\$3,379,072</u> -\$7,200,193	-\$37,201 -\$190,760 <u>-\$227,961</u> -\$485,743	127.3 652.9 780.3 1,512.5	\$5,751,294 \$29,491,425 \$35,242,719 \$69,837,296	\$6,386,209 <u>\$32,723,794</u> \$39,110,003 \$77,303,405	-\$3,018,397 -\$3,607,033	-\$634,915 -\$3,232,369 <u>-\$3,867,284</u> -\$7,466,109		<u>-</u>	-\$64,180 -\$329,100 <u>-\$393,279</u> -\$838,008	-\$1,287,730 -\$6,579,866 <u>-\$7,867,596</u> -\$15,990,053	
Municipal ⁽²⁾ <u>Unmetered</u> Total Other	\$60,971 1.7% \$53,801 1.5% \$114,772 3.2%	181.0 108.4 289.4	\$9,047,284 \$9,047 \$5,745,785 \$5,745 \$14,793,069 \$14,793	.785 <u>-\$630,45</u>	<u>4</u>	<u>.</u>	<u>-</u>	-\$258,589 <u>-\$228,176</u> -\$486,765	-\$973,073 - <u>\$858,630</u> -\$1,831,703	-\$65,646 - <u>\$57,925</u> -\$123,571	177.8 103.7 281.5	\$8,387,562 \$5,163,406 \$13,550,968	9,480,132.6 5,666,808.7 \$15,146,941	-\$1,038,719 - <u>\$916,556</u> - \$1,955,275	-\$1,092,570 <u>-\$503,403</u> -\$1,595,973	<u>.</u>	<u>-</u>	-\$113,253 - <u>\$99,933</u> -\$213,186	-\$2,244,542 - <u>\$1,519,892</u> - \$3,764,434	-\$127,719 - <u>\$94,778</u> - \$222,497
Total FAM Classes	\$3,582,281 100.0%	9 352 4	\$490,811,695 \$490,811	695 -\$41 978 42	2 -	_	_	-\$15,193,000	-\$57 171 /22	¢2 056 020	0.405.0	\$465,065,625	\$522,702,906	-\$61,028,351	-\$57.637.281			¢c c=4 000	-\$125,319,632	¢7 240 027

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WACC																			
2016 Rates					2018	3								2019)				
	Sales (GWh)	E	BCF			Rate S	tability F	und		Sales (GWh)	В	CF			Rate	Stability F	und		
			Recovery at 2016		Contribution from BCF		DSM RSA		Year-end bfr			Recovery at 2016		Contribution from BCF	5 () 5	DSM RSA		Year-end bfr	
Residential	4,549.4	Requirement \$315,943,371	Rates 244,008,479.3	Year-beginning -\$53,124,263	,	Deferred FAM -	Adjustment -		Interest Interest \$17,522,562 -\$1,384,90	4,583.1	Requirement \$321,240,057	Rates 245,816,195.4	Year-beginning \$16,137,656	,	Deferred FAM -	Adjustment -	Cash Taxes I -\$119,442	nterest \$91,442,076	Interest \$4,184,852
Small General General Demand Large General Total Commercial	262.3 2,413.1 412.7 3,088.1	\$17,604,720 \$153,829,665 <u>\$24,673,184</u> \$196,107,569	14,493,754.5 126,887,061.4 20,645,600.6 \$162,026,417	-\$2,932,922 -\$25,481,695 -\$3,523,568 -\$31,938,186	\$3,110,965 \$26,942,603 \$4,027,584 \$34,081,152	- - -	<u>-</u>	-\$64,299 -\$571,647 <u>-\$73,158</u> -\$709,104	\$113,744 -\$109,660 \$889,262 -\$956,640 \$430,857 -\$120,300 \$1,433,863 -\$1,186,610	262.1 2,404.7 409.9 3,076.6	\$17,753,529 \$155,184,722 <u>\$24,873,915</u> \$197,812,165	14,483,253.2 126,444,935.7 20,503,316.6 \$161,431,506	\$4,078 - <mark>\$67,384</mark> <u>\$310,551</u> \$247,244	\$3,270,276 \$28,739,786 \$4,370,598 \$36,380,660	- - -	<u>:</u>	-\$5,962 -\$53,009 <u>-\$6,784</u> -\$65,755	\$4,674,365	\$127,299 \$1,110,673 <u>\$193,913</u> \$1,431,885
Small Industrial Medium Industrial Large Industrial Total	256.2 479.1	\$16,132,494 \$28,181,928	13,257,460.2 23,611,429.1	-\$2,516,464 -\$4,551,939	\$2,875,034 \$4,570,499	-		-\$57,291 -\$101,236	\$301,279 -\$86,17 -\$82,676 -\$180,28	256.0 481.6	\$16,350,955 \$28,776,404	13,250,016.6 23,735,513.2	\$215,108 -\$262,962	\$3,100,939 \$5,040,891	-	-	-\$5,313 -\$9,388	\$3,310,734 \$4,768,541	\$137,155 \$175,267 #DIV/0!
Firm Interruptible Large Industrial Total Total Industrial	126.3 667.0 793.3 1,528.6	\$7,178,323 <u>\$37,910,885</u> \$45,089,208 \$89,403,630	6,071,338.2 32,064,566.2 \$38,135,904 \$75,004,794	-\$1,085,005 -\$5,563,679 -\$6,648,684 -\$13,717,087	\$1,106,985 \$5,846,319 \$6,953,303 \$14,398,836	- - -		-\$22,877 -\$117,311 <u>-\$140,188</u> -\$298,715	-\$898 -\$42,243 \$165,329 -\$209,990 \$164,431 -\$252,233 \$383,034 -\$518,693	125.3 666.9 792.2 1,529.8	\$7,236,831 \$38,528,725 \$45,765,556 \$90,892,916	6,021,858.3 32,060,238.3 \$38,082,097 \$75,067,626	-\$43,140 -\$44,666 <u>-\$87,806</u> -\$135,661	\$1,214,973 \$6,468,487 \$7,683,460 \$15,825,290	- - -	<u>:</u>	-\$2,121 -\$10,878 <u>-\$13.000</u> -\$27,700	\$1,169,711 \$6,412,942 <u>\$7,582,654</u> \$15,661,929	\$43,824 \$247,726 <u>\$291,550</u> \$603,972
Municipal ⁽²⁾ <u>Unmetered</u> Total Other	178.0 101.9 279.9	\$11,134,818 \$6,660,842 \$17,795,660	8,895,353.5 5,403,485.2 \$14,298,839	-\$1,756,796 -\$1,439,125 -\$3,195,922	\$2,239,465 \$1,257,356 \$3,496,821	<u>-</u>	-	-\$40,370 - <u>\$35,622</u> -\$75,992	\$442,299 -\$51,13 -\$217,391 -\$64,43 \$224,907 -\$115,57	172.1 100.9 273.0	\$10,890,680 \$6,699,251 \$17,589,931	8,604,011.4 5,346,237.6 \$13,950,249	\$391,165 - <u>\$281,830</u> \$109,335	\$2,286,668 \$1,353,013 \$3,639,682	<u>-</u>	<u>-</u>	-\$3,743 -\$3,303 -\$7,047	\$2,674,089 \$1,067,881 \$3,741,970	\$119,238 \$30,577 \$149,816
Total FAM Classes	9,445.9	\$619,250,230	\$495,338,528	-\$101,975,458	\$123,911,702	-	-	-\$2,371,878	\$19,564,366 - \$3,205,79	9,462.5	\$627,535,070	\$496,265,576	\$16,358,575	\$131,269,493	-	-	-\$219,943	\$147,408,124	\$6,370,525
Rate Plan																			
Nate Flatt			205		2018		4-h:!!# F .			2 . (2007)				2019		Ctabilita r	·		
INGIG FIGII	Sales (GWh)	E	BCF		2018		tability F	und		Sales (GWh)	В	CF		2019		Stability F	und		
Residential	Sales (GWh) 4,549.4		Recovery at 2018 Rates	Year-beginning -\$71,519,139	Contribution from BCF Recovery		tability F	Additional Cash Taxes	Year-end bfr Interest -\$29,752,148 -\$3,939,45	Sales (GWh) 4,583.1		CF Recovery at 2019 Rates 286,167,484.74		Contribution from BCF		Stability F DSM RSA Adjustment	Additional `	Year-end bfr nterest \$1,261,530	Interest -\$1,261,530
	,	Requirement	Recovery at 2018 Rates		Contribution from BCF Recovery	Rate S	DSM RSA	Additional Cash Taxes -\$1,288,067 -\$64,299 -\$571,647 -\$73,158	Interest Interest	, ,	Requirement	Recovery at 2019 Rates 286,167,484.74 16,041,843.8	Year-beginning	Contribution from BCF Recovery	Rate	DSM RSA	Additional Cash Taxes I	nterest	
Residential Small General General Demand Large General	4,549.4 262.3 2,413.1 412.7	Requirement \$315,943,371 \$17,604,720 \$153,829,665 \$24,673,184	Recovery at 2018 Rates 272,888,313.26 15,526,596.9 135,830,364.7 22,130,086.2	-\$71,519,139 -\$3,466,618 -\$32,433,431 <u>-\$4,251,400</u>	Contribution from BCF Recovery \$43,055,058 \$2,078,123 \$17,999,300 \$2,543,098	Rate S Deferred FAM	DSM RSA	Additional Cash Taxes -\$1,288,067 -\$64,299 -\$571,647 -\$73,158	Interest -\$29,752,148 -\$3,939,45: -\$1,452,794 -\$191,36: -\$15,005,778 -\$1,845,38: -\$1,781,460 -\$234,67:	4,583.1 262.1 2,404.7 409.9	Requirement \$321,240,057 \$17,753,529 \$155,184,722 \$24,873,915	Recovery at 2019 Rates 286,167,484.74 16,041,843.8 137,649,584.7 22,775,500.9	Year-beginning -\$33,691,601 -\$1,644,160 -\$16,851,163 -\$2,016,139	Contribution from BCF Recovery \$35,072,573 \$1,711,685 \$17,535,137 \$2,098,414	Rate	DSM RSA	Additional Cash Taxes I -\$119,442 -\$5,962 -\$53,009 -\$6,784	\$1,261,530 \$61,563 \$630,966 \$75,491	-\$1,261,530 -\$61,563 -\$630,966 <u>-\$75,491</u>
Residential Small General General Demand Large General Total Commercial Small Industrial Medium Industrial Large Industrial Total Firm Interruptible Large Industrial Total	4,549.4 262.3 2,413.1 412.7 3,088.1 256.2 479.1 126.3 667.0 793.3	Requirement \$315,943,371 \$17,604,720 \$153,829,665 \$24,673,184 \$196,107,569 \$16,132,494 \$28,181,928 \$7,178,323 \$37,910,885 \$45,089,208	Recovery at 2018 Rates 272,888,313.26 15,526,596.9 135,830,364.7 22,130,086.2 \$173,487,048 14,299,956.9 25,110,002.7 6,437,145.8 34,084,749.1 \$40,521,895	-\$71,519,139 -\$3,466,618 -\$32,433,431 -\$4,251,400 -\$40,151,449 -\$3,192,539 -\$5,404,551 -\$1,360,720 -\$6,953,239 -\$8,313,959	Contribution from BCF Recovery \$43,055,058 \$2,078,123 \$17,999,300 \$2,543,098 \$22,620,521 \$1,832,537 \$3,071,926 \$741,177 \$3,826,136 \$4,567,313	Rate S Deferred FAM	DSM RSA	Additional Cash Taxes -\$1,288,067 -\$64,299 -\$571,647 -\$73,158 -\$709,104 -\$57,291 -\$101,236 -\$22,877 -\$117,311 -\$140,188	Interest Interest -\$29,752,148 -\$3,939,45: -\$1,452,794 -\$191,36: -\$15,005,778 -\$1,845,38: -\$1,781,460 -\$234,67: -\$18,240,032 -\$2,271,42: -\$1,417,292 -\$179,32: -\$2,433,862 -\$304,91: #DIV/O -\$642,421 -\$77,92: -\$3,244,413 -\$396,68: -\$3,886,834 -\$474,61	4,583.1 262.1 2,404.7 409.9 3,076.6 2 256.0 481.6 125.3 666.9 792.2	Requirement \$321,240,057 \$17,753,529 \$155,184,722 \$24,873,915 \$197,812,165 \$16,350,955 \$28,776,404 \$7,236,831 \$38,528,725 \$45,765,556	Recovery at 2019 Rates 286,167,484.74 16,041,843.8 137,649,584.7 22,775,500.9 \$176,466,929 14,689,245.2 25,925,691.7 6,487,394.4 34,740,409.8 \$41,227,804	Year-beginning -\$33,691,601 -\$1,644,160 -\$16,851,163 -\$2,016,139 -\$20,511,461 -\$1,596,615 -\$2,738,776 -\$720,343 -\$3,641,102 -\$4,361,445	Contribution from BCF Recovery \$35,072,573 \$1,711,685 \$17,535,137 \$2,098,414 \$21,345,236 \$1,661,710 \$2,850,713 \$749,437 \$3,788,316 \$4,537,752	Rate	DSM RSA	Additional Cash Taxes I -\$119,442 -\$5,962 -\$53,009 -\$6,784 -\$65,755 -\$5,313 -\$9,388 -\$2,121 -\$10,878 -\$13,000	\$1,261,530 \$61,563 \$630,966 \$75,491 \$768,020 \$59,783 \$102,549 \$26,972 \$136,335 \$163,308	-\$1,261,530 -\$61,563 -\$630,966 -\$75,491 -\$768,020 -\$59,783 -\$102,549 -\$26,972 -\$136,335 -\$163,308
Residential Small General General Demand Large General Total Commercial Small Industrial Medium Industrial Large Industrial Total Firm Interruptible	4,549.4 262.3 2,413.1 412.7 3,088.1 256.2 479.1 126.3 667.0	Requirement \$315,943,371 \$17,604,720 \$153,829,665 \$24,673,184 \$196,107,569 \$16,132,494 \$28,181,928 \$7,178,323 \$37,910,885	Recovery at 2018 Rates 272,888,313.26 15,526,596.9 135,830,364.7 22,130,086.2 \$173,487,048 14,299,956.9 25,110,002.7 6,437,145.8 34,084,749.1	-\$71,519,139 -\$3,466,618 -\$32,433,431 -\$4,251,400 -\$40,151,449 -\$3,192,539 -\$5,404,551 -\$1,360,720 -\$6,953,239	Contribution from BCF Recovery \$43,055,058 \$2,078,123 \$17,999,300 \$2,543,098 \$22,620,521 \$1,832,537 \$3,071,926 \$741,177 \$3,826,136	Rate S Deferred FAM	DSM RSA	Additional Cash Taxes -\$1,288,067 -\$64,299 -\$571,647 -\$73,158 -\$709,104 -\$57,291 -\$101,236 -\$22,877 -\$117,311	Interest Interest -\$29,752,148 -\$3,939,45: -\$1,452,794 -\$191,36: -\$15,005,778 -\$1,845,38: -\$1,781,460 -\$234,67: -\$18,240,032 -\$2,271,42: -\$1,417,292 -\$179,32: -\$2,433,862 -\$304,91: -\$642,421 -\$77,92: -\$3,244,413 -\$396,68:	4,583.1 262.1 2,404.7 409.9 3,076.6 256.0 481.6 125.3 666.9	Requirement \$321,240,057 \$17,753,529 \$155,184,722 \$24,873,915 \$197,812,165 \$16,350,955 \$28,776,404 \$7,236,831 \$38,528,725	Recovery at 2019 Rates 286,167,484.74 16,041,843.8 137,649,584.7 22,775,500.9 \$176,466,929 14,689,245.2 25,925,691.7 6,487,394.4 34,740,409.8 \$41,227,804	Year-beginning -\$33,691,601 -\$1,644,160 -\$16,851,163 -\$2,016,139 -\$20,511,461 -\$1,596,615 -\$2,738,776 -\$720,343 -\$3,641,102	Contribution from BCF Recovery \$35,072,573 \$1,711,685 \$17,535,137 \$2,098.414 \$21,345,236 \$1,661,710 \$2,850,713 \$749,437 \$3,788,316	Rate	DSM RSA	Additional Cash Taxes 1 -\$119,442 -\$5,962 -\$53,009 -\$6,784 -\$65,755 -\$5,313 -\$9,388 -\$2,121 -\$10,878	\$1,261,530 \$61,563 \$630,966 \$75,491 \$768,020 \$59,783 \$102,549 \$26,972 \$136,335	-\$1,261,530 -\$61,563 -\$630,966 -\$75,491 -\$768,020 -\$59,783 -\$102,549 -\$26,972 -\$136,335

WA	

WACC	1										
2016 Rates		T		T	202	0					
	Sales (GWh)		BCF			Rate S	Stability F	und			
	Jaies (GWII)		301		Contribution	Nate C	ιασιπιχ ι	шпи			
Residential	4,629.4	Requirement \$337,857,647	Recovery at 2016 Rates 248,300,327.05	Year-beginning \$95,626,928	from BCF Recovery	Deferred FAM	DSM RSA Adjustment	Additional Cash Taxes \$0	Year-end bfr Interest \$185,184,248	Interest \$10,923,555	Year Beginning 2021 \$196,107,802
Small General	263.4	\$18,633,210	14,556,630.4	\$3,395,690	\$4,076,579	a _	_	\$0	\$7,472,269	\$422,764	\$7,895,032
General Demand	2,408.3	\$162,938,962		\$29,730,067			-	\$0	. , ,		\$69,759,565
Large General	407.0	\$25,990,002	20,361,691.2	\$4,868,278		<u> -</u>		\$0	\$10,496,589		\$11,094,283
Total Commercial	3,078.7	\$207,562,174	\$161,553,020	\$37,994,035	\$46,009,15	4 -	-	\$0	\$84,003,188	\$4,745,692	\$88,748,880
Small Industrial	256.3	\$17,181,770	13,263,188.4	\$3,447,890	\$3,918,582	2 -	-	\$0	\$7,366,471	\$420,679	\$7,787,150
Medium Industrial	482.3	\$30,312,060	23,768,589.5	\$4,943,808	\$6,543,47	1 -	-	\$0	\$11,487,279	. ,	\$12,126,448
Large Industrial Total						_				#DIV/0!	
Firm	124.2	\$7,561,463		\$1,213,535			-	\$0	* / /	\$156,220	\$2,958,610
Interruptible Large Industrial Total	663.8 788.1	\$40,400,286 \$47,961,749		\$6,660,668 \$7,874,203			-	\$0 <u>\$0</u>	, ., .		\$15,998,224 \$18,956,834
Total Industrial	1,526.6	\$95,455,580		\$16,265,901				<u>\$0</u>			\$38,870,433
NA: -:1(2)	,							00	. , ,		
Municipal ⁽²⁾ Unmetered	160.9 100.9	\$10,661,670 \$7,009,686		\$2,793,328 \$1,098,458			-	\$0	. , ,		\$5,734,137 \$2,910,423
Total Other	261.7	\$17,671,356		\$3,891,786				<u>\$0</u> \$0			\$8,644,560
Total FAM Classes	9,496.5						\$(•	, ,		\$332,371,675
Total FAIN Classes	9,490.5	\$658,546,756	\$498,156,875	\$153,778,649	\$100,369,66	ı şu	ψı) şu	\$314,168,530	\$10,203,145	\$332,371,073
Rate Plan		T		T	202	0					
	Sales (GWh)	ı	BCF			Rate S	Stability F	und			
					Contribution						
			Recovery at 2020		from BCF		DSM RSA	Additional	Year-end bfr		Year Beginning
Book tourist	4 000 4	Requirement		Year-beginning	Recovery	Deferred FAM	Adjustment	Cash Taxes		Interest	2021
Residential	4,629.4	\$337,857,647	337,857,647	\$0	\$(· -	-	\$0	\$0	\$0	\$0
Small General	263.4	\$18,633,210	18,633,210	-\$0	\$0	0 -	-	\$0	-\$0	-\$0	-\$0
General Demand	2,408.3	\$162,938,962	162,938,962	-\$0	\$0) -	-	\$0	-\$0	-\$0	-\$0
Large General	407.0	\$25,990,002	25,990,002	<u>-\$0</u>	\$0	<u> </u>		<u>\$0</u>	<u>-\$0</u>	<u>-\$0</u>	<u>-\$0</u>
Total Commercial	3,078.7	\$207,562,174	207,562,174	-\$0	\$(D -	-	\$0	-\$0	-\$0	-\$0
Small Industrial	256.3	\$17,181,770	17,181,770	\$0	\$0	n -	_	\$0	\$0	\$0	\$0
Medium Industrial	482.3	\$30,312,060		-\$0				\$0 \$0			- \$ 0
Large Industrial Total		,,	,,-		Ψ.	-		Q 0	• •	4 0	4 0
Firm	124.2	\$7,561,463		-\$0			-	\$0			-\$0
Interruptible	663.8	\$40,400,286		-\$0			-	\$0			-\$0
Large Industrial Total	788.1	\$47,961,749		<u>-\$0</u>	·	=	-	<u>\$0</u>			<u>-\$0</u>
Total Industrial	1,526.6	\$95,455,580	\$95,455,580	-\$0	\$(0 -	-	\$0	-\$0	-\$0	-\$0
Municipal ⁽²⁾	160.9	\$10,661,670	10,661,669.7	-\$0	\$6	n .		\$0	-\$0	-\$0	-\$0
Unmetered	100.9	\$7,009,686	, ,	-\$0 \$0			-	\$0 <u>\$0</u>			-\$0 <u>\$0</u>
Total Other	261.7	\$17,671,356		- \$0				<u>\$0</u>			- \$0
Total FAM Classes	9,496.5	\$658,546,756	\$658,546,756	-\$0	\$(0 \$0	\$() \$0	-\$0	-\$0	-\$0

REDACTED Fuel Stability Plan CA IR-3 Attachment 1 Page 7 of 11

REDACTED Fuel Stability Plan CA IR-3 Attachment 1 Page 8 of 11

ACC	

	Outstanding interest by		Tai	rge %l
	2019	2020		
lential	\$0	\$0		
General	-\$0	-\$0		
ral Demand	-\$0	-\$0		
General	<u>-\$0</u>	<u>-\$0</u>		
Commercial	-\$0	-\$0		
Industrial	\$0	\$0		
m Industrial Industrial Total	-\$0	-\$0		
n	-\$0	-\$0		
rruptible	-\$0	-\$0		
Industrial Total	<u>-\$0</u> - <u>\$0</u> - \$0	<u>-\$0</u> - <u>\$0</u> - \$0		
Industrial	-\$0	-\$0		
ipaf ²⁾	-\$0	-\$0		
tered	\$0	\$0		
Other	-\$0	-\$0		
FAM Classes	-\$0	-\$0		

NPV Differential b Quo and R	
3 Year Plan	4 Year Plan
2019	2020
\$73,517,701	\$0
\$2,610,596	\$0
\$22,856,388	\$1
\$3,742,718	S
\$29,209,702	\$1
\$2,650,727	\$1
\$3,800,785	\$1
\$0	\$1
\$932,962	\$1
\$5,120,702	<u>\$1</u>
\$6,053,664 \$12,505,177	\$1 \$ 1
\$12,303,177	31
\$2,147,502	\$1
\$844,491	Si
\$2,991,993	\$1
\$118,224,574	SC

NPV Imb	alance
3 Year Plan	4 Year Plan
2019	2020
\$73,517,701	-\$0
\$2,610,596	\$0
\$22,856,388	\$0
\$3,742,718	\$0
\$29,209,702	\$0
\$2,650,727	-\$0
\$3,800,785	\$0
\$932,962	\$0
\$5,120,702	\$0
\$6,053,664	\$0
\$12,505,177	\$0
\$2,147,502	\$0
\$844,491	<u>-\$0</u>
\$2,991,993	\$0
\$118,224,574	\$0

2016 Rates

Residential
Small General General Demand Large General Total Commercial
Small Industrial Medium Industrial Large Industrial Total Firm Interruptible Large Industrial Total Total Industrial
Municipal ⁽²⁾ <u>Unmetered</u> Total Other Total FAM Classes

	G	Wh Sales			Rev	enues priced	at 2016 base	cost rates		Unit	Revenue	s (c/kV	/hs)	
2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
4,485.0	4,508.9	4,549.4	4,583.1	4,629.4	\$700,817,754	\$706,283,379	\$712,096,132	\$716,946,127	\$723,666,441	15.6	15.7	15.7	15.6	15.0
247.6	262.7	262.3	262.1	263.4	\$38,108,102	\$40,263,949	\$40,235,065	\$40,233,862	\$40,444,080	15.4	15.3	15.3	15.4	15.4
2,509.0	2,424.7	2,413.1	2,404.7	2,408.3	\$320,755,523	\$309,962,227	\$308,475,012	\$307,400,161	\$307,861,493	12.8	12.8	12.8	12.8	12.8
406.5	415.6	412.7	409.9	407.0	\$45,216,807	\$46,006,829	\$45,772,058	\$45,537,286	\$45,303,601	11.1	11.1	11.1	11.1	11.1
3,163.2	3,102.9	3,088.1	3,076.6	3,078.7	\$404,080,431	\$396,233,006	\$394,482,135	\$393,171,309	\$393,609,174	12.8	12.8	12.8	12.8	12.8
252.4	256.6	256.2	256.0	256.3	\$32,099,992	\$32,637,400	\$32,579,300	\$32,561,008	\$32,593,376	12.7	12.7	12.7	12.7	12.7
470.9	475.6	479.1	481.6	482.3	\$52,466,144	\$53,564,445	\$53,954,231	\$54,237,774	\$54,313,357	11.1	11.3	11.3	11.3	11.3
94.9	127.3	126.3	125.3	124.2	\$10,182,027	\$12,966,722	\$12,886,126	\$12,805,530	\$12,725,308	10.7	10.2	10.2	10.2	10.2
596.6	652.9	667.0	666.9	663.8	\$55,620,561	\$62,081,322	\$63,542,273	\$63,535,582	\$63,305,093	9.3	9.5	9.5	9.5	9.5
691.5	780.3	793.3	792.2	788.1	\$65,802,588	\$75,048,045	\$76,428,399	\$76,341,112	\$76,030,400	9.5	9.6	9.6	9.6	
1,414.8	1,512.5	1,528.6	1,529.8	1,526.6	\$150,368,724	\$161,249,889	\$162,961,930	\$163,139,894	\$162,937,133	10.6	10.7	10.7	10.7	10.7
181.0	177.8	178.0	172.1	160.9	\$20,149,547	\$20,322,188	\$20,334,215	\$19,875,620	\$18,988,070	11.1	11.4	11.4	11.5	11.8
108.4	103.7	101.9	100.9	100.9	\$23,289,077	\$21,932,109	\$21,901,651	\$21,669,613	\$21,676,058	21.5	21.1	21.5	21.5	21.5
289.4	281.5	279.9	273.0	261.7	\$43,438,624	\$42,254,297	\$42,235,866	\$41,545,232	\$40,664,128	15.0	15.0	15.1	15.2	15.5
9,352.4	9,405.9	9,445.9	9,462.5	9,496.5	\$1,298,705,534	\$1,306,020,572	\$1,311,776,063	\$1,314,802,562	\$1,320,876,875	13.9	13.9	13.9	13.9	13.9

NPV of Revenue Requirement 3Y	
\$1,840,930,711	
\$104,128,500 \$798,657,768 \$118,459,175	
\$1,021,245,443 \$84.333,725	
\$139,463,921	
\$33,351,474 \$163,045,998	
\$196,397,472 \$420,195,118	
\$52,234,526 \$56,510,420	
\$108,744,946	
\$3,391,116,218	

Reve	nue Varian	ce			Var G' Sales			% Var	Reve	nues		Re	Var Ur venue /kWhs	es			CF Rat			% \ Rate	/ar B(s (c/k		
2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
\$5,465,625	\$5,812,752	\$4,849,995	\$6,720,314	0.5%	0.9%	0.7%	1.0%	0.8%	0.8%	0.7%	0.9%	0.2%	-0.1%	-0.1%	-0.1%		5.364	5.364	5.364	0.0%	0.0%	0.0%	0.0%
\$2,155,847 -\$10,793,295 <u>\$790,023</u> -\$7,847,425	-\$28,884 -\$1,487,215 - <u>\$234,772</u> - \$1,750,871	-\$234,772	\$210,219 \$461,332 -\$233,685 \$437,865	-3.4% 2.2%	-0.5% -0.7%	-0.1% -0.3% <u>-0.7%</u> -0.4%	0.2%	-3.4% 1.7%		-0.3% -0.5%	0.2%		0.0%	0.1% 0.0% <u>0.2%</u> 0.0%	0.0%		5.526 5.258 5.002	5.526 5.258 5.002	5.526 5.258 5.002	0.0% 0.0% 0.0%	0.0%	0.0% 0.0% 0.0%	0.0% 0.0% 0.0%
\$537,407 \$1,098,301 \$0	-\$58,100 \$389,786 \$0	-\$18,292 \$283,543 \$0	\$32,369 \$75,582 \$0	1.0%	0.7%	-0.1% 0.5%	0.1%	2.1%		0.5%	0.1%	0.0% 1.1%	0.0%	0.0% 0.0%	0.0%		5.175 4.928	5.175 4.928	5.175 4.928	0.0%	0.0%	0.0% 0.0%	0.0%
\$2,784,696 \$6,460,761 \$9,245,457 \$10,881,165	-\$80,596 \$1,460,951 \$1,380,355 \$1,712,041	-\$80,596 - <u>\$6,691</u> -\$87,287 \$177,964	-\$80,223 - <u>\$230,489</u> -\$310,712 - \$202,761	9.4% 12.8%	2.2% 1.7%		-0.5% -0.5%	11.6% 14.1%	2.4% 1.8%	-0.6% 0.0% -0.1% 0.1%	-0.4% -0.4%	-5.1% 2.0% 1.1% 0.3%	0.2%	0.0%	0.1%		4.807 4.807	4.807 4.807	4.807 4.807	0.0%		0.0%	0.0%
\$172,641 <u>-\$1,356,968</u> - \$1,184,327	\$12,027 - <u>\$30,458</u> - \$18,431	-\$458,595 -\$232,038 -\$690,634	-\$887,550 \$6,445 -\$881,105	-4.3%	-1.7%	-3.3% -1.1% -2.5%	0.0%	-5.8%	-0.1%	-2.3% -1.1% -1.6%	0.0%	2.7% -1.6% 0.0%	1.6%	1.1% <u>0.0%</u> 0.9%	0.0%		4.998 5.301	4.998 5.301	4.998 5.301	0.0% 0.0%		0.0% 0.0%	0.0%
\$7,315,038	\$5,755,492	\$3,026,498	\$6,074,314	0.6%	0.4%	0.2%	0.4%	0.6%	0.4%	0.2%	0.5%	0.0%	0.0%	0.1%	0.1%								

Rate	Plan
Rate	Pian

Residential
Small General
General Demand
Large General
Total Commercial
Small Industrial
Medium Industrial
Large Industrial Total
Firm
Interruptible
Large Industrial Total
Total Industrial
Municipal ⁽²⁾
Unmetered
Total Other
Total FAM Classes

Ra	ate Increases		Revenues pri	ced at previous	year's rates		Variance		%	Varianc	e	NPV of Revenu Requirement 3
2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019	
\$723,989,488	\$740,975,966	\$757,297,416	\$713,227,121	\$729,961,088	\$746,039,914	\$10,762,367	\$11,014,877	\$11,257,502	1.5%	1.5%	1.5%	\$1,914,448,4
\$40,777,661	\$41,267,908	\$41,792,452	\$40,263,949	\$40,748,019	\$41,265,956	\$513,712	\$519,888	\$526,496	1.3%	1.3%	1.3%	\$106,739,0
\$316,653,666	\$317,418,315	\$318,604,810	\$314,375,198	\$315,134,345	\$316,312,302	\$2,278,468	\$2,283,970	\$2,292,508	0.7%	0.7%	0.7%	\$821,514,1
\$46,707,409	\$47,256,543	\$47,809,470	<u>\$45,927,873</u>	<u>\$46,467,842</u>	<u>\$47,011,541</u>	<u>\$779,536</u>	<u>\$788,701</u>	<u>\$797,929</u>	<u>1.7%</u>	<u>1.7%</u>	<u>1.7%</u>	\$122,201,8
\$404,138,737	\$405,942,767	\$408,206,732	\$400,567,020	\$402,350,207	\$404,589,799	\$3,571,717	\$3,592,560	\$3,616,934	0.9%	0.9%	0.9%	\$1,050,455,1
\$33,288,160	\$33,621,797	\$34,000,236	\$32,899,163	\$33,228,902	\$33,602,919	\$388,996	\$392,895	\$397,317	1.2%	1.2%	1.2%	\$86,984,4
\$54,385,133	\$55,452,804	\$56,427,953	\$53,726,156	\$54,780,891	\$55,744,223	\$658,977	\$671,914	\$683,730	1.2%	1.2%	1.2%	\$143,264,7
\$13,232,114	\$13,251,934	\$13,271,067	\$13,129,705	\$13,149,372	\$13,168,357	\$102,408	\$102,562	\$102,710	0.8%	0.8%	0.8%	\$34,284,4
\$63,418,852	\$65,562,456	\$66,215,753	\$62,786,480	\$64,908,709	\$65,555,492	\$632,372	<u>\$653,747</u>	\$660,261	1.0%	1.0%	1.0%	\$168,166,7
\$76,650,966	\$78,814,390	\$79,486,820	\$75,916,185	\$78,058,081	\$78,723,849	\$734,781	\$756,309	\$762,971	1.0%	1.0%	1.0%	\$202,451,1
\$164,324,258	\$167,888,991	\$169,915,009	\$162,541,504	\$166,067,873	\$168,070,991	\$1,782,754	\$1,821,118	\$1,844,018	1.1%	1.1%	1.1%	\$432,700,2
\$20,914,608	\$21,186,843	\$20,957,207	\$20,658,246	\$20,927,144	\$20,700,322	\$256,362	\$259,699	\$256,884	1.2%	1.2%	1.2%	\$54,382,0
\$22,101,080	\$22,236,687	\$22,169,553	<u>\$21,933,146</u>	\$22,067,722	\$22,001,099	<u>\$167,934</u>	<u>\$168,964</u>	\$168,454	<u>0.8%</u>	0.8%	0.8%	\$57,354,9
\$43,015,688	\$43,423,530	\$43,126,760	\$42,591,392	\$42,994,866	\$42,701,421	\$424,296	\$428,664	\$425,339	1.0%	1.0%	1.0%	\$111,736,9
1,335,468,171	\$1,358,231,253	\$1,378,545,917	\$1,318,927,037	\$1,341,374,035	\$1,361,402,125	\$16,541,134	\$16,857,218	\$17,143,792	1.254%	1.257%	1.259%	\$3,509,340,7

% Change in BC Rates		Revenue V	ariance	Unit F	Revenu	ies (c/kWhs)	Re	evenue	% Var	Unit	Rever	nue % Var	BCF	Rate	s (c/kWh)	% V	ar BC (c/k/	F Rates Wh)
2017	2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019	2017	2018	2019
2.5%	\$23,171,734	\$16,986,478	\$16,321,450	16.1	16.3	16.5	3.3%	2.3%	2.2%	2.8%	1.4%	1.5%	5.756	5.998	6.244	7.3%	4.2%	4.1%
1.3% 2.2% <u>1.5%</u> 2.0%	-\$4,101,856 \$1,490,602	\$490,246 \$764,649 <u>\$549,134</u> \$1,804,030	\$524,544 \$1,186,494 \$552,927 \$2,263,966	15.5 13.1 11.2 13.0	15.7 13.2 <u>11.5</u> 13.1	15.9 13.2 11.7 13.3	7.0% -1.3% <u>3.3%</u> 0.0%	0.2% 1.2%	1.3% 0.4% <u>1.2%</u> 0.6%	0.9% 2.2% <u>1.0%</u> 2.0%	0.7%	1.3% 0.7% <u>1.9%</u> 0.9%	5.722 5.534 5.171	5.920 5.629 5.362	6.121 5.724 5.557	3.5% 5.2% 3.4%	1.7%	1.7%
2.0% 1.5%	\$1,188,167 \$1,918,989	\$333,637 \$1,067,672	\$378,440 \$975,148	13.0 11.4	13.1 11.6	13.3 11.7	3.7% 3.7%		1.1% 1.8%	2.0% 2.6%		1.2% 1.2%	5.429 5.101	5.582 5.241	5.737 5.383	4.9% 3.5%	2.8% 2.7%	
2.0% 2.2% 2.1% 1.9%	\$3,050,087 <u>\$7,798,291</u> \$10,848,378 \$13,955,534	\$19,820 <u>\$2,143,604</u> \$2,163,424 \$3,564,733	\$19,133 \$653,297 \$672,430 \$2,026,018	10.4 <u>9.7</u> 9.8 10.9	10.5 <u>9.8</u> 9.9 11.0	10.6 <u>9.9</u> 10.0 11.1	30.0% 14.0% 16.5% 9.3%	0.1% 3.4% 2.8% 2.2%	0.1% 1.0% 0.9% 1.2%	-3.2% 4.2% 3.2% 2.2%	1.2%		5.015 5.012	5.097 5.110	5.179 5.209	4.3% 4.3%	1.6% 2.0%	
2.9% <u>0.8%</u> 1.8% 2.3%	\$765,060 -\$1,187,997 -\$422,936 \$36,762,637	\$272,235 <u>\$135,606</u> \$407,842 \$22,763,082	-\$229,636 - <u>\$67,134</u> - \$296,770 \$20,314,664	11.8 21.3 15.3 14.2	11.9 21.8 15.5 14.4	12.2 22.0 15.8 14.6	3.8% -5.1% -1.0% 2.8%	0.6% 0.9%	-1.1% -0.3% -0.7% 1.5%	5.7% -0.8% 1.8% 2.2%	2.4% 1.5%	2.3% 0.8% 1.8% 1.3%	5.332 5.464	5.478 5.629	5.627 5.796	6.7% 3.1%	2.7% 3.0%	

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2016 Rates

Residential

Small General
General Demand
Large General
Total Commercial

Small Industrial
Medium Industrial
Large Industrial Total
Firm
Interruptible
Large Industrial Total
Total Industrial
Municipal⁽²⁾
Unmetered
Total Other
Total FAM Classes

Rate Plan

Residential

Small General
General Demand
Large General
Total Commercial

Small Industrial
Medium Industrial
Large Industrial Total
Firm
Interruptible
Large Industrial Total
Total Industrial

Municipal⁽²⁾
Unmetered
Total Other

		2016				2017					2018			2	2019					2020	
FX Cost		Fuel-related	Total	FX Cost		Fuel-relate	d	Total	FX Cost	F	uel-related	Total	FX Cost	Fue	el-related		Total	FX Cost		Fuel-related	Total
	BCF	Adjustment Total			BCF	Adjustment	Total			BCF	Adjustment Total			BCF Adju	ıstment	Total			BCF	Adjustment Total	
\$460,259,589	\$240,558,16	65 \$0 \$240,558,165	\$700,817,754	\$464,444,528	\$241,838,851	\$(\$241,838,851	\$706,283,379	\$468,087,652	\$244,008,479	\$0 \$244,008,	79 \$712,096,132	\$471,129,931	\$245,816,195	\$0	\$245,816,195	\$716,946,127	\$475,366,114	\$248,300,327	\$0 \$248,300,327	\$723,666,441
\$24,424,349 \$188,822,672	9 \$13,683,75 2 \$131,932,85		\$38,108,102 \$320,755,523	\$25,748,772 \$182,463,420	\$14,515,177 \$127,498,807		\$14,515,177 \$127,498,807	\$40,263,949 \$309,962,227	\$25,741,311 \$181,587,951	\$14,493,755 \$126,887,061	\$0 \$14,493,7 \$0 \$126,887,0		\$25,750,608 \$180,955,225			\$14,483,253 \$126,444,936	\$40,233,862 \$307,400,161	\$25,887,450 \$181,226,794	\$14,556,630 \$126,634,698		\$40,444,080 \$307,861,493
\$24,881,649 \$238,128,67 0	\$20,335,15 \$165,951,76		\$45,216,807 \$404,080,431	\$25,218,945 \$233,431,137	\$20,787,885 \$162,801,869		\$20,787,885 \$162,801,869	\$46,006,829 \$396,233,006	\$25,126,457 \$ \$232,455,71 9	\$20,645,601 \$162,026,417	\$0 \$20,645,6 \$0 \$162,026,		\$25,033,969 \$231,739,80 3	\$20,503,317 \$161,431,506	<u>\$0</u> \$0	\$20,503,317 \$161,431,506	\$45,537,286 \$393,171,309	\$24,941,910 \$232,056,154		\$0 \$20,361,691 \$0 \$161,553,020	\$45,303,601 \$393,609,174
\$19,038,685 \$29,257,033	\$13,061,30 \$23,209,11		\$32,099,992 \$52,466,144	\$19,356,297 \$30,123,594	\$13,281,103 \$23,440,851		\$13,281,103 \$23,440,851	\$32,637,400 \$53,564,445					\$19,310,991 \$30,502,261	\$13,250,017 \$23,735,513	\$0 \$0	Ψ10,200,011	\$32,561,008 \$54,237,774		\$13,263,188 \$23,768,590		\$32,593,376 \$54,313,357
\$5,621,129 \$26,943,177	\$4,560,89 \$28,677,38		\$10,182,027 \$55,620,561	\$6,845,904 \$30,695,058	\$6,120,818 \$31,386,264	\$(\$6,120,818 \$31,386,264	\$12,966,722 \$62,081,322		\$6,071,338 \$32,064,566			\$6,783,672 \$31,475,343	\$6,021,858 \$32,060,238	\$0 \$0	\$6,021,858 \$32,060,238	\$12,805,530 \$63,535,582	\$6,752,700 \$31,393,935		**	\$12,725,308 \$63,305,093
\$32,564,306 \$80,860,02 4	\$33,238,28 \$69,508,7 0		\$65,802,588 \$150,368,724	\$37,540,962 \$87,020,853	\$37,507,082 \$74,229,03 6		\$37,507,082 \$74,229,036	\$75,048,045 \$161,249,88 5					\$38,259,016 \$88,072,26 8	\$38,082,097 \$75,067,626	\$0 \$0	\$38,082,097 \$75,067,626	\$76,341,112 \$163,139,89 4	\$38,146,635 \$88,021,590			\$76,030,400 \$162,937,13 3
\$11,102,264 \$17,543,292 \$28,645,55 6	\$5,745,78	85 <u>\$0</u> \$5,745,785	\$20,149,547 <u>\$23,289,077</u> \$43,438,624	\$11,434,475 <u>\$16,434,272</u> \$27,868,747	\$8,887,713 \$5,497,838 \$14,385,55 0	\$6	\$8,887,713 \$5,497,838 \$14,385,550	\$20,322,188 \$21,932,109 \$42,254,29 7	\$11,438,861 \$16,498,166 \$27,937,027		<u>\$0</u> \$5,403,4	85 \$21,901,651	\$11,271,608 <u>\$16,323,375</u> \$27,594,983	\$8,604,011 \$5,346,238 \$13,950,249	\$0 <u>\$0</u> \$0	\$5,346,238	\$19,875,620 \$21,669,613 \$41,545,232	\$10,947,912 \$16,328,230		<u>\$0</u> \$5,347,828	\$18,988,070 <u>\$21,676,058</u> \$40,664,128
\$28,645,556	1 ' ' '				\$14,385,550) \$14,385,550) \$493,255,307			\$14,298,839 \$495,338,528			\$27,594,983 \$818,536,985	\$13,950,249 \$496,265,576	**			\$27,276,142 \$822,720,000			\$40,664,128

		2016				2017					2018					2019					2020		
FX Cost	F	uel-related	Total	FX Cost		Fuel-relate	ed	Total	FX Cost		Fuel-related		Total	FX Cost		Fuel-related		Total	FX Cost	Fue	el-related	Total	Unit Rev
	BCF	Adjustment Total			BCF	Adjustment	Total			BCF	Adjustment	Total			BCF	Adjustment	Total			BCF Adj	ustment Total		
\$460,259,589	\$240,558,165	\$0 \$240,558,165	\$700,817,754	\$464,444,528	\$228,700,115	\$30,844,844.5	64 \$259,544,960	\$723,989,488	\$468,087,652	\$315,943,371	-\$43,055,057.92	\$272,888,313	\$740,975,966	\$471,129,931	\$321,240,057	-\$35,072,572.73	\$286,167,485	\$757,297,416	\$475,366,114	\$337,857,647	\$0.0 \$337,857,647	\$813,223,761	1 17.567
\$24,424,349	\$13,683,753	\$0 \$13,683,753	\$38,108,102	\$25,748,772	\$13,588,817	\$1,440,07	2 \$15,028,889	\$40,777,661	\$25,741,311	\$17,604,720	-\$2,078,123	\$15,526,597	\$41,267,908	\$25,750,608	\$17,753,529	-\$1,711,685	\$16,041,844	\$41,792,452	\$25,887,450	\$18,633,210	\$0 \$18,633,210	\$44,520,659	16.901
	2 \$131,932,851	\$0 \$131,932,851	\$320,755,523		\$119,834,100		7 \$134,190,246		\$181,587,951	\$153,829,665		\$135,830,365	\$317,418,315	\$180,955,225	\$155,184,722	-\$17,535,137	\$137,649,585			\$162,938,962	\$0 \$162,938,962	\$344,165,756	
\$24,881,649		<u>\$0</u> <u>\$20,335,158</u>	\$45,216,807	\$25,218,945			<u>\$21,488,464</u>	\$46,707,409	\$25,126,457	\$24,673,184			\$47,256,543	\$25,033,969	\$24,873,915	<u>-\$2,098,414</u>		\$47,809,470		\$25,990,002	<u>\$0</u> <u>\$25,990,002</u>	\$50,931,912	12.513
\$238,128,670	\$165,951,761	\$0 \$165,951,761	\$404,080,431	\$233,431,137	\$152,977,246	\$17,730,35	64 \$170,707,600	\$404,138,737	\$232,455,719	\$196,107,569	-\$22,620,521	\$173,487,048	\$405,942,767	\$231,739,803	\$197,812,165	-\$21,345,236	\$176,466,929	\$408,206,732	\$232,056,154	\$207,562,174	\$0 \$207,562,174	\$439,618,328	14.279
\$19,038,685	\$13,061,307	\$0 \$13,061,307	\$32,099,992	\$19,356,297	\$12,548,882	\$1,382,98	1 \$13,931,863	\$33,288,160	\$19,321,840	\$16,132,494	-\$1,832,537	\$14,299,957	\$33,621,797	\$19,310,991	\$16,350,955	-\$1,661,710	\$14,689,245	\$34,000,236	\$19,330,188	\$17,181,770	\$0 \$17,181,770	\$36,511,958	14.247
\$29,257,033	\$23,209,111	\$0 \$23,209,111	\$52,466,144	\$30,123,594	\$22,045,695	\$2,215,84	4 \$24,261,539	\$54,385,133	\$30,342,802	\$28,181,928	-\$3,071,926	\$25,110,003	\$55,452,804	\$30,502,261	\$28,776,404	-\$2,850,713	\$25,925,692	\$56,427,953	\$30,544,767	\$30,312,060	\$0 \$30,312,060	\$60,856,827	7 12.619
\$5,621,129	\$4,560,898	\$0 \$4.560.898	\$10,182,027	\$6,845,904	\$5,751,294	\$634,91	5 \$6,386,209	\$13,232,114	\$6,814,788	\$7,178,323	-\$741,177	\$6,437,146	\$13,251,934	\$6,783,672	\$7,236,831	-\$749,437	\$6,487,394	\$13,271,067	\$6,752,700	\$7,561,463	\$0 \$7,561,463	\$14,314,164	11.521
\$26,943,177	\$28,677,384	\$0 \$28,677,384	\$55,620,561	\$30,695,058				\$63,418,852	\$31,477,707	\$37,910,885			\$65,562,456	\$31,475,343	\$38,528,725	-\$3,788,316	\$34,740,410	\$66,215,753			\$0 \$40,400,286	\$71,794,221	1 10.815
\$32,564,306		\$0 \$33,238,282	\$65,802,588	\$37,540,962				\$76,650,966	\$38,292,495	\$45,089,208		\$40,521,895	\$78,814,390	\$38,259,016	\$45,765,556	-\$4,537,752	\$41,227,804	\$79,486,820			\$0 \$47,961,749	\$86,108,385	10.926
\$80,860,024	\$69,508,700	\$0 \$69,508,700	\$150,368,724	\$87,020,853	\$69,837,296	\$7,466,10	9 \$77,303,405	\$164,324,258	\$87,957,136	\$89,403,630	-\$9,471,776	\$79,931,854	\$167,888,991	\$88,072,268	\$90,892,916	-\$9,050,175	\$81,842,741	\$169,915,009	\$88,021,590	\$95,455,580	\$0 \$95,455,580	\$183,477,170	12.018
\$11,102,264	\$9,047,284	\$0 \$9,047,284	\$20,149,547	\$11,434,475	\$8,387,562	\$1,092,57	0 \$9,480,133	\$20,914,608	\$11,438,861	\$11,134,818	-\$1,386,837	\$9,747,982	\$21,186,843	\$11,271,608	\$10,890,680	-\$1,205,081	\$9,685,598	\$20,957,207	\$10,947,912	\$10,661,670	\$0 \$10,661,670	\$21,609,582	13.434
\$17,543,292	\$5,745,785	<u>\$0</u> <u>\$5,745,785</u>	\$23,289,077	\$16,434,272	\$5,163,406			\$22,101,080	\$16,498,166	\$6,660,842	<u>-\$922,321</u>	\$5,738,521	\$22,236,687	\$16,323,375	\$6,699,251	-\$853,073	\$5,846,178	\$22,169,553	\$16,328,230	\$7,009,686	<u>\$0</u> <u>\$7,009,686</u>	\$23,337,916	23.132
\$28,645,556	\$14,793,069	\$0 \$14,793,069	\$43,438,624	\$27,868,747	\$13,550,968	\$1,595,97	3 \$15,146,941	\$43,015,688	\$27,937,027	\$17,795,660	-\$2,309,157	\$15,486,503	\$43,423,530	\$27,594,983	\$17,589,931	-\$2,058,154	\$15,531,777	\$43,126,760	\$27,276,142	\$17,671,356	\$0 \$17,671,356	\$44,947,498	17.172
\$807 893 839	\$490,811,695	\$0 \$490.811.695	\$1 298 705 534	\$812 765 265	\$465,065,625	\$57,637,280,7	3 \$522,702,906	\$1 335 468 171	\$816 437 535	\$619,250,230	-\$77.456.512	\$541 793 718	\$1.358.231.253	\$818,536,985	\$627,535,070	-\$67 526 139	\$560 008 932	\$1.378.545.917	\$822 720 000	\$658 546 756	\$0 \$658,546,756	\$1,481,266,756	6 15.598

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	В	CF Rates	bfr Adj	. (c/kWh		ВС	F Rates	aft Adj	. (c/kWh	1)
Rate Classes	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
FAM Classes Residential	5.364	5.072	6.945	7.009	7.298	5.364	5.756	5.998	6.244	7.298
Small General General Demand <u>Large General</u> (1) Total Commercial	5.526 5.258 5.002	5.173 4.942 4.706	6.712 6.375 5.978	6.774 6.453 6.069	7.074 6.766 6.385	5.526 5.258 5.002	5.722 5.534 5.171	5.920 5.629 5.362	6.121 5.724 5.557	7.074 6.766 6.385
Small Industrial Medium Industrial ⁽¹⁾ Large Industrial ⁽¹⁾	5.175 4.928	4.890 4.635	6.297 5.883	6.386 5.975	6.704 6.285	5.175 4.928	5.429 5.101	5.582 5.241	5.737 5.383	6.704 6.285
Firm Interruptible Large Industrial Total Total Industrial	4.807 4.807	4.517 4.517	5.683 5.683	5.777 5.777	6.086 6.086	4.807 4.807	5.015 5.012	5.097 5.110	5.179 5.209	6.086 6.086
Municipal <u>Unmetered ⁽²⁾</u>	4.998 5.301	4.717 4.978	6.257 6.534	6.327 6.642	6.628 6.948	4.998 5.301	5.332 5.464	5.478 5.629	5.627 5.796	6.628 6.948

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Revised Pe	rcent Ch	ange-With	out RSA/F	AM
FAM Classes	2017	2018	2019	2020
Residential	1.5%	1.5%	1.5%	6.4%
Small General General Demand Large General Total Commercial	1.3% 0.7% <u>1.7%</u> 0.9%	1.3% 0.7% <u>1.7%</u> 0.9%	1.3% 0.7% <u>1.7%</u> 0.9%	6.0% 7.9% <u>7.1%</u> 7.6%
Small Industrial Medium Industrial Large Industrial Firm	1.2% 1.2%	1.2% 1.2%	1.2% 1.2%	7.3% 7.7%
Interruptible Large Industrial Total Total Industrial	0.8% 1.0% <u>1.0%</u> 1.1%	0.8% 1.0% <u>1.0%</u> 1.1%	0.8% 1.0% <u>1.0%</u> 1.1%	8.5% 8.8% <u>8.8%</u> 8.1%
Municipal <u>Unmetered</u> Total Other	1.2% <u>0.8%</u> 1.0%	1.2% <u>0.8%</u> 1.0%	1.2% <u>0.8%</u> 1.0%	8.1% <u>5.2%</u> 6.6%
Total FAM Classes	1.3%	1.3%	1.3%	7.0%

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	est IR-4:
2		
3	Refe	ence p. 24, ll. 6-7. Section 10 of the EPIA states that "any adjustments implemented
4	on Ja	nuary 1, 2017, must remain in place throughout the Rate Stability Period and must be
5	adjus	ted so that any intended recovery or reimbursement of costs is made over the course
6	of the	Rate Stability Period."
7		
8	(a)	Please explain why NS Power proposes to set the AA and BA to zero, rather than at
9		rates that would recover or reimburse over the Rate Stability Period AA and BA
10		amounts for 2016 (as those amounts would be determined based on ten months of
11		actual and two months of forecasted costs pursuant to the Plan of Administration).
12		
13	(b)	Please provide NS Power's current estimate of the 2016 AA and BA amounts in total
14		and by rate class.
15		
16	(c)	Based on NS Power's current estimate of the 2016 AA and BA amounts by rate
17		class, please estimate the AA and BA rate for each rate class that would allow for
18		recovery of the full 2016 AA and BA amounts (along with interest accrued on
19		unrecovered amounts) by the end of the Rate Stability Period.
20		
21	Respo	onse IR-4:
22		
23	(a)	The filing date of the Rate Stability Plan Application precedes the FAM AA/BA Rider
24		filing schedule by eight months. The year-to-date fuel cost imbalance in the recovery of
25		the 2016 base cost of fuel as of the end of February 2016 does not provide a sufficient
26		foundation for accurate estimation of the FAM AA riders. At this point, the Company
27		projects the imbalance in recovery of 2016 AA and BA amounts to be zero. Any actual
28		imbalances in recovery of 2016 AA and BA will be addressed in the FAM AA/BA
29		proceeding later this year.
30		

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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The Company has not made a determination of the outstanding imbalances in recovery of 1 2 the 2016 Base Cost of Fuel and FAM AA and BA riders by rate classes for the purpose of 3 this proceeding. The most recent estimate of the imbalance in recovery of the 2016 Base Cost of Fuel cost comes from the end of February 2016 and represents an over-recovery 4 5 of \$6.8 million. The FAM BA estimate, reflecting primarily a true-up of forecast costs 6 from November and December 2015, is an under-recovery of \$1.4 million. Their net 7 effect is an estimated over-recovery of \$5.4 million. This estimate, however, reflects 8 only a two month history which is too short to provide a solid foundation for a 9 determination of the final outstanding fuel cost amounts from 2016. 10 11 The Company will seek a recovery or reimbursement of these amounts during the 2017-12 2019 rate stability period through the FAM AA/BA riders for which it will apply in 13 November 2016.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Reque	est IR-	5:
2			
3	Refer	ence p.	25, Il. 12-14.
4			
5	(a)	Pleas	e explain in detail how the hedge plan described in Appendix D differs from
6		the c	urrent risk strategy or hedging plan, in terms of such elements as duration of
7		contr	acts by fuel type, Value at Risk assumptions or model, and derivation of upside
8		tolera	ance for risk exposure.
9			
10	(b)	Pleas	e explain in detail how the hedge strategy described in Appendix D will be
11		imple	emented, including:
12			
13		(i)	How the quantities of each fuel type to be hedged will be determined.
14		(ii)	The frequency of hedging operations by contract type.
15		(iii)	Which types of hedge contract will be used for each fuel type.
16		(iv)	How hedging performance will be evaluated.
17			
18	Respo	nse IR-	5:
19			
20	(a)	NS P	ower's current risk management and hedging practices have been designed to
21		gener	ally smooth fuel costs by mitigating the impact of price movements over time.
22		These	hedging programs are detailed in NS Power's Fuel Manual. The Fuel Hedging
23		Plan,	as detailed in Appendix D, is designed with the objective of reducing fuel cost
24		varial	pility specific to the Rate Stability Period. This will be achieved by increasing the
25		target	hedge percentage to between 75 and 100% of fuel costs where suitable cost-
26		effect	ive hedges are available. Appendix A to the Fuel Hedging Plan contains a table that
27		outlin	es the current approach to hedging for each fuel type.
28			

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1		The o	duration of contracts will vary by commodity and hedging instrument. Value (i.e
2		Forec	east/Budget) at Risk (VaR) will be used as a measure of potential variability in total
3		fuel c	costs in the aggregate fuel and purchased power portfolio.
4			
5	(b)	(i)	The forecast of fuel requirements during the Rate Stability Period will be
6			determined through the use of PLEXOS, consistent with NS Power's current fuel
7			forecasting practices. The regular forecast updating will allow NS Power to
8			optimize its portfolio through rebalancing its portfolio of physical and financial
9			contracts. The Fuel Hedging Plan will enable the Company to hedge 75-100% of
10			the volumetric fuel requirements during the Rate Stability Period. The exact
11			volumes that will be hedged depend on the availability of suitable, cost-effective
12			hedging products and market liquidity but the Company intends to target the
13			higher end of the range for the period.
14			
15		(ii)	NS Power anticipates updating its model runs in PLEXOS once each quarter
16			during the Rate Stability Period. Should the updated forecasts show a significant
17			change in the expected consumption of any fuel, NS Power will evaluate its
18			portfolio and the availability of suitable cost-effective hedges, and rebalance its
19			portfolio as necessary. The actual execution of hedges may occur at any point in
20			time depending on market conditions. Should material changes in market
21			conditions occur between regular quarterly forecasts, NS Power may perform
22			additional PLEXOS runs to update its fuel consumption forecast.
23			
24		(iii)	A table of primary and secondary hedging products and contract types can be
25			found in Appendix C to the Fuel Hedging Plan. This list contains specific
26			products and indices that NS Power has identified as being relevant to its hedging
27			activities. This list may be updated or expanded should alternative hedging
28			products or contracts be identified that will assist NS Power in meeting the
29			objectives of the hedging plan.
30			

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(iv)	Ex ante, individual hedges will be evaluated in terms of their expected reduction
	in fuel cost variability as measure by portfolio VaR. A reduction in VaR indicates
	that the hedge is expected to reduce fuel cost variability, thereby meeting a
	primary objective of the Fuel Hedging Plan. Ex post,2 the effectiveness of NS
	Power's Fuel Hedging Plan can be measured by evaluating variability in actual
	fuel costs during the Rate Stability Period. A more effective hedging plan will
	result in a larger reduction in the variance of actual fuel costs costs.

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1

2

3 4 5

6 7

Ex ante: based on forecasts rather than actual results.
 Ex post: based on actual results rather than forecasts.

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

1	Requ	nest IR-6:
2		
3	Refe	rence p. 29, ll. 5-6. With regard to the modeling of exports:
4		
5	(a)	Please explain and quantify how the Maritime Link transmission projects affect NS
6		Power's ability to export energy to New Brunswick and New England, and how that
7		ability was modeled in the Application.
8		
9	(b)	Please describe the manner in which NS Power projected the quantity and price of
10		exports of NS Power energy to New Brunswick and New England, given the
11		availability of increased transmission.
12		
13	(c)	Please describe the manner in which NS Power projected the quantity and price of
14		exports of NS Power renewable energy to New England, given the availability of
15		increased transmission and NS Power's surplus supply of renewable energy.
16		
17	(d)	Please provide any data available to NS Power regarding prices for renewable
18		energy credits in any New England state, in any year from 2016 through 2020.
19		
20	(e)	Please explain whether NS Power has approached any parties active in the New
21		England power markets to determine the feasibility of selling renewable energy to
22		New England.
23		
24	(f)	Please provide any reports or analyses by or for NS Power regarding the market for
25		Nova Scotia renewables in New England and the costs of wheeling renewable energy
26		to New England.
27		

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

1	Respo	nse IR-6:
2		
3	(a-b)	The current maximum capacity for export from Nova Scotia is 350 MW provided that
4		Point Aconi and one Lingan thermal generating unit generating are in operation to each
5		run-back over 150 MW of exports in the event this is necessary. When exporting
6		between 100 to 225 MW, only one thermal unit is targeted for run-back. When exporting
7		above 225 MW, it is necessary to operate both Point Aconi and one Lingan thermal
8		generating unit at 150 MW or above. Of the 350 MW maximum export capacity, 172
9		MW must be maintained to deliver reserve to New Brunswick, leaving 178 MW of firm
10		capacity. Transmission capacity from 178 MW to 350 MW is considered non-firm.
11		
12		Once the Maritime Link transmission upgrades are complete, the total export capacity
13		will be increased to 502 MW, including 330 MW firm and 172 MW of reserve delivery
14		capacity. There must be at least 330 MW being imported through the Maritime Link to
15		provide run-back, or the Point Aconi generating unit and one generating unit at Lingan
16		must be in operation to reach this export capacity.
17		
18		The maximum export capacity assumed in the Application was 150 MW until September
19		30, 2017. Once the Maritime Link transmission upgrades are approved by the UARB and
20		complete the maximum export capacity increases to 330 MW starting from October 1,
21		2017 and continuing for the remainder of the study period. In order to maintain the
22		reserve deliverability to New Brunswick, 172 MW has been excluded from the assumed
23		export capacity. In addition to this assumption, NS Power also assumed that all of the
24		export volumes are under the Co-operative Dispatch Agreement with NB Power.
25		
26		The methodology that NS Power has used to forecast the price of exported power in this
27		Application also assumes that the majority of the time, opportunities to export to New
28		Brunswick will be triggered by marginal cost oil-fired generation in New Brunswick
29		being displaced by less expensive marginal cost coal-fired generation in Nova Scotia.
30		

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

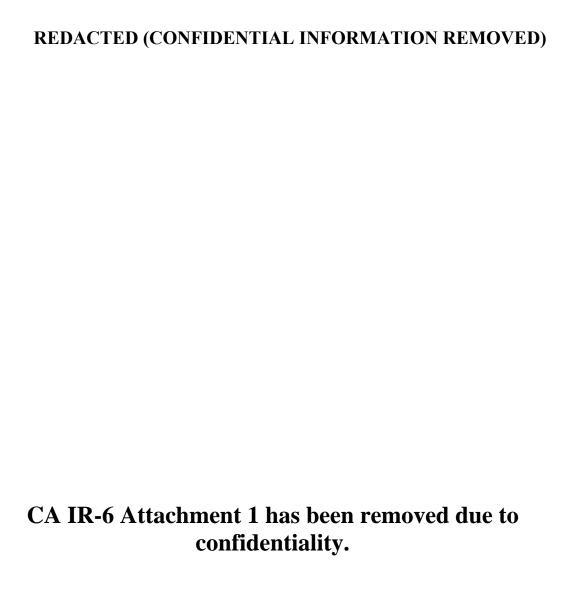
1		In accordance with the Pilot Joint Dispatch Bilateral Agreement (Joint Dispatch								
2		Agreement) between NS Power and NB Power, the regional benefit from imports and								
3		exports is shared equally between the parties. This principle of the Agreement forms the								
4		basis of the export pricing assumed for this Application being the midpoint between the								
5		forecast cost of marginal coal-fired generation in Nova Scotia (Lingan) and marginal oil-								
6		fired generation in New Brunswick.								
7										
8		These forecast prices are input into the PLEXOS optimization software model to develop								
9		the forecast fuel and purchased power costs for the rate stability period. One of the								
10		outputs from this optimization modeling is the forecast volume of exports. Consistent								
11		with the methodology for forecasting export power in Section 6.0 of Appendix B of the								
12		FAM Plan of Administration (POA), the PLEXOS forecast model was constrained to								
13		limit the export volumes in each month to the historical monthly average for the prior								
14		year. For the purpose of this Application, the prior year is 2015 and the annual volume of								
15		exports was restricted to a maximum of GWh.								
16										
17	(c)	NS Power has not projected any quantity of NS Power renewable energy being exported								
18		to New England in this Application.								
19										
20	(d)	NS Power receives price indications for traded environmental instruments from ICAP								
21		LLC of Sugarland, Texas USA which include price indications for qualified Renewable								
22		Energy Credits of various classes in the New England states. The most recent copy of this								
23		publication that NS Power has is attached as Confidential Attachment 1.								
24										
25	(e)	NS Power has recently approached a party that is active in the New England power								
26		market to explore the provision of certain services to export renewable energy from Nova								
27		Scotia to the New England power market. This opportunity is still in preliminary								
28		evaluation stages.								
29										

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

1 (f) NS Power continues to explore its commercial options and will provide detailed reports 2 when a decision to transact or not has been reached by management.

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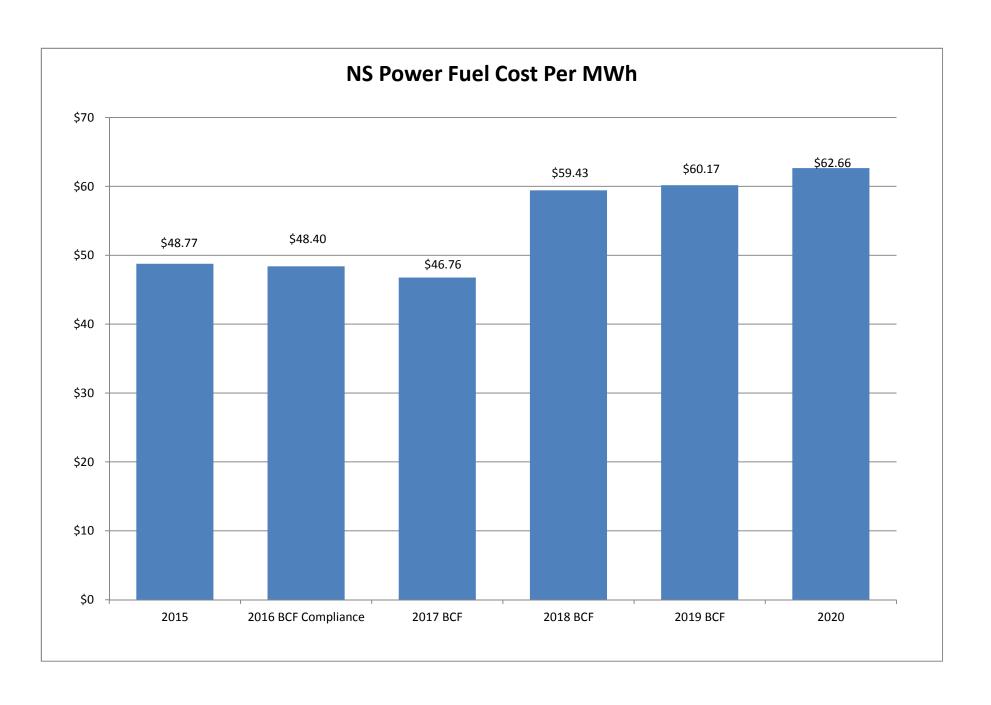


2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

CONFIDENTIAL (Attachment Only)

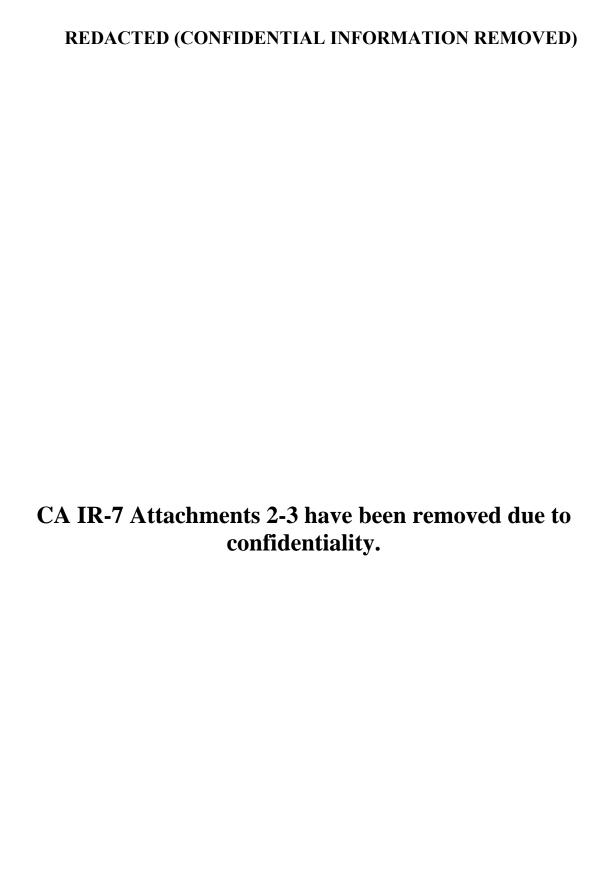
1	Requ	est IR-7:
2		
3	Refer	rence p. 31, Figure 6.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 6. Please provide copies of all linked
7		spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the fuel costs per MWh shown
11		in Figure 6 for the years 2017 through 2020.
12		
13	Respo	onse IR-7:
14		
15	(a)	Please refer to Attachment 1.
16		
17	(b)	The data used to generate Figure 6 are the 2016 BCF Compliance and 2017 to 2019 BCF
18		fuel decks are provided in NS Power's 2017-2019 Fuel Stability Plan as Appendix A OE-
19		01B Confidential Attachment 1 and Appendix A OE-01A Confidential Attachments 1 to
20		3. The fuel deck for 2015 Actual Fuel and Purchased Power costs is contained in
21		Confidential Attachment 2 and the 2020 Forecast fuel deck is contained in Confidential
22		Attachment 3.

Fuel Stability Plan CA IR-7 Attachment 1 Page 1 of 2



Fuel Stability Plan CA IR-7 Attachment 1 Page 2 of 2

Year	Net Fuel Cost (\$/Mwh)			
2015	\$	48.77		
2016 BCF Compliance	\$	48.40		
2017 BCF	\$	46.76		
2018 BCF	\$	59.43		
2019 BCF	\$	60.17		
2020	\$	62.66		



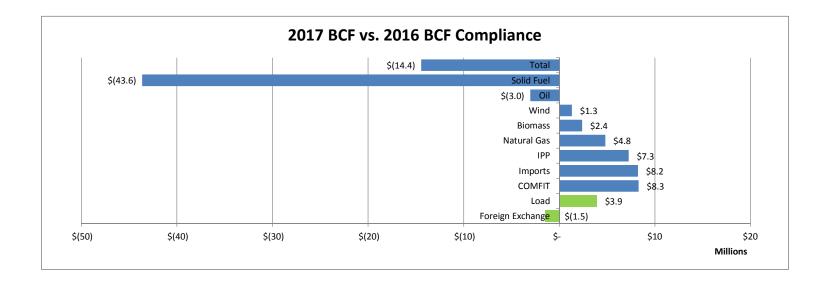
2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

NON-CONFIDENTIAL

1	Requ	iest IR-8:
2		
3	Refe	rence p. 32, Figure 7.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 7. Please provide copies of all linked
7		spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive Figure 7.
11		
12	Resp	onse IR-8:
13		
14	(a)	Please refer to Attachment 1.
15		
16	(b)	The data used to generate Figure 7 are the 2016 and 2017 fuel decks provided in NS
17		Power's 2017-2019 Fuel Stability Plan filing as Appendix A OE-01B Confidential
18		Attachment 1 and Appendix A OE-01A Confidential Attachment 1.

Fuel Stability Plan CA IR-8 Attachment 1 Page 1 of 1

		2017 BCF	2016 BCF Compliance	Variance
Load (MWh)		84,079.00 \$/MWh 46.76	\$/MWh 48.40	3,931,128.79
Solid Fuel	mmBtu \$	61,814,145 \$ 191,559,358	64,607,056 \$ 233,536,104	\$ (41,976,746)
Natural Gas	mmBtu \$	8,996,072 \$ 46,449,254	\$ 4 8,031,914 \$ 41,639,639	\$ 4,809,615
Biomass	mmBtu \$	4,188,305 \$ 27,163,209	3,868,556 \$ 24,778,436	\$ 2,384,773
HFO	mmBtu \$	997,426 \$ 8,671,555	1,297,242 \$ 11,255,090	\$ (2,583,535)
Furnace Oil	mmBtu \$	140,297 \$ 1,834,960	156,088 \$ 2,035,098	\$ (200,138)
Diesel	mmBtu \$	22,365 \$ 327,530	38,725 \$ 571,781	\$ (244,251)
Additives Hg Additives	\$ \$	\$ 3,930,270 \$ 9,389,596	\$ 3,950,517 \$ 11,023,524	\$ (20,247) \$ (1,633,928)
Imports	MWh \$	890,754 \$ 33,493,985	674,659 \$ 25,270,791	\$ 8,223,194
Wind	MWh \$ \$/MWh	1,102,054 \$ 80,523,107 \$ 73.066	1,091,131 \$ 79,202,932 \$ 72.588	\$ 1,320,176
IPP's	MWh \$	101,246 \$ 25,290,820	88,956 \$ 18,030,004	\$ 7,260,816
COMFIT	MWh \$	636,060 \$ 92,312,638	584,180 \$ 84,010,640	\$ 8,301,998
Adjustments	\$	\$ 6,597,041	\$ 6,679,522	\$ (82,481)
Maritime Link	MWh \$	-		\$ -
		\$ 527,543,323	\$ 541,984,078 (14,440,754)	\$ (14,440,754)
			Foreign Exchange Load COMFIT Imports IPP Natural Gas Biomass Wind Oil Solid Fuel Total	\$ (1,489,940) \$ 3,931,129 3,931,128.79 \$ 8,301,998 \$ 8,301,998 \$ 8,223,194 \$ 8,223,194 \$ 7,260,816 \$ 7,260,816 \$ 4,809,615 \$ 4,809,615 \$ 2,384,773 \$ 2,384,773 \$ 1,320,176 \$ 1,320,176 \$ (3,027,924) \$ (3,027,924) \$ (43,630,921) \$ (43,630,921) \$ (14,440,754)



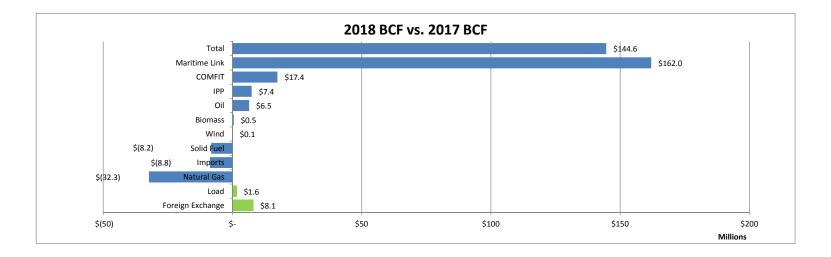
2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	iest IR-9:
2		
3	Refe	rence p. 33, Figure 8.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 8. Please provide copies of all linked
7		spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive Figure 8.
11		
12	Resp	onse IR-9:
13		
14	(a)	Please refer to Attachment 1.
15		
16	(b)	The data used to generate Figure 8 are the 2017 and 2018 forecast fuel decks provided in
17		NS Power's 2017-2019 Fuel Stability Plan filing as Appendix A OE-01A Confidential
18		Attachment 1 and Appendix A OE-01A Confidential Attachment 2.

					2017 BCF		Variance	
Load Variance (MWh)		26,894.00						
		\$/M	Wh	\$/MV	Vh		1,598,245.95	
			59.43		46.76			
Solid Fuel	mmBtu \$	\$	62,075,757 181,788,951	\$	61,814,145 191,559,358	\$	(9,770,407)	
Natural Gas	mmBtu \$	\$	2,133,796 14,143,843	\$	8,996,072 46,449,254	\$	(32,305,411)	
Biomass	mmBtu \$	\$	4,188,305 27,668,167	\$	4,188,305 27,163,209	\$	504,958	
HFO	mmBtu \$	\$	1,812,482 15,033,935	\$	997,426 8,671,555	\$	6,362,380	
Furnace Oil	mmBtu \$	\$	137,028 1,958,589	\$	140,297 1,834,960	\$	123,629	
Diesel	mmBtu \$	\$	20,622 296,072	\$	22,365 327,530	\$	(31,458)	
Additives Hg Additives	\$ \$	\$ \$	4,172,314 10,676,867	\$ \$	3,928,708 9,389,596	\$ \$	243,606 1,287,271	
Imports	MWh \$	\$	685,720 24,739,450	\$	890,754 33,493,985	\$	(8,754,535)	
Wind	MWh \$	\$	1,100,591 80,668,502	\$	1,102,054 80,523,107	\$	145,395	
IPP's	MWh \$	\$	115,026 32,714,657	\$	101,246 25,290,820	\$	7,423,837	
COMFIT	MWh \$	\$	716,284 109,715,341	\$	636,060 92,312,638	\$	17,402,703	
Adjustments	\$	\$	6,548,738	\$	6,597,041	\$	(48,303)	
Maritime Link	\$	\$	162,000,000			\$	162,000,000	
		\$	672,125,267	\$	527,541,761	\$	144,583,665	
				Loac Natu Impo Solid Wind Biom Oil IPP COM	ral Gas irts I Fuel I nass IFIT time Link	*********	504,958 6,454,551 7,423,837	\$ (8,754,535) \$ (8,239,530) \$ 145,395

Fuel Stability Plan CA IR-9 Attachment 1 Page 1 of 1



2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Reque	est IR-10:
2		
3	Refer	ence p. 34, Figure 9.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 9. Please provide copies of all linked
7		spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive Figure 9.
11		
12	(c)	Please provide a version of Figure 9 which shows the forecasted changes in BCF
13		component costs from 2019 to 2020.
14		
15		(i) Please provide a copy of the electronic spreadsheet file, with all cell formulas
16		and file linkages intact, relied on to generate the 2019-2020 version of Figure
17		9. Please provide copies of all linked spreadsheet files.
18		
19		(ii) Please provide copies of all workpapers, including electronic spreadsheets
20		with cell formulas and file linkages intact, relied on to derive the 2019-2020
21		version of Figure 9.
22		
23	Respo	nse IR-10:
24	-	
25	(a)	Please refer to Attachment 1.
26		
27	(b)	The data used to generate Figure 9 come from the 2018 and 2019 fuel decks provided in
28		NS Power's 2017-2019 Fuel Stability Plan as Appendix A OE-01A Confidential
29		Attachment 2 and Appendix A OE-01A Confidential Attachment 3.
30		**

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

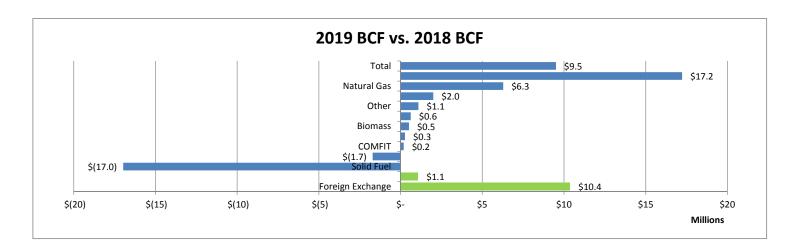
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1	(c)	(i)	Please refer to Attachment 2.
2			
3		(ii)	The data used to generate Attachment 2 come from the 2019 fuel deck provided in
4			NS Power's 2017-2019 Fuel Stability Plan as Appendix A OE-01A Confidential
5			Attachment 3 and the 2020 Fuel Deck provided as CA IR-7 Confidential
6			Attachment 3.

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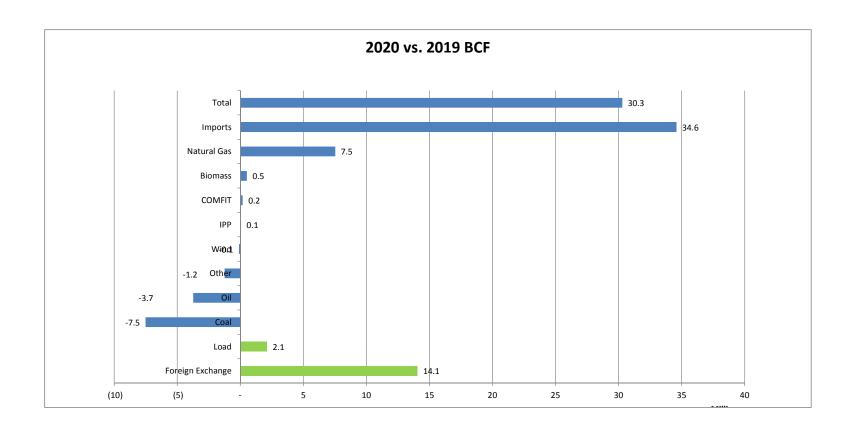
Fuel Stability Plan CA IR-10 Attachment 1 Page 1 of 1

		2019 BCF	2018 BCF	Variance
Load (MWh)		17,861.00		
,		\$/MWh		1,074,758.84
		60.17		
Solid Fuel	mmBtu \$	54,297,957 \$ 166,220,475	62,075,757 \$ 181,788,951	\$ (15,568,476)
Natural Gas	mmBtu \$ \$	3,178,361 \$ 20,422,432 \$ -	2,133,796 \$ 14,143,843 \$ -	\$ 6,278,589 \$ -
Biomass	mmBtu \$	4,188,275 \$ 28,183,040	4,188,305 \$ 27,668,167	\$ 514,873
HFO	mmBtu \$ \$/mmBtu	1,594,249 \$ 13,621,119 \$ 8.544	1,812,482 \$ 15,033,725 \$ 8.295	\$ (1,412,606)
Furnace Oil	mmBtu \$	124,061 \$ 1,928,190	137,028 \$ 1,955,467	\$ (27,277)
Diesel	mmBtu \$	2,188 \$ 31,885	20,622 \$ 296,072	\$ (264,187)
Additives Hg Additives	\$ \$	\$ 4,125,066 \$ 9,317,940	\$ 4,172,314 \$ 10,676,867	\$ (47,248) \$ (1,358,927)
Imports	MWh \$	1,016,947 \$ 41,965,537	685,720 \$ 24,739,450	\$ 17,226,087
Wind	MWh \$	1,099,821 \$ 81,290,352	1,100,591 \$ 80,668,502	\$ 621,849
IPPs	MWh \$	116,457 \$ 32,980,178	115,026 \$ 32,714,657	\$ 265,521
COMFIT	MWh \$	716,290 \$ 109,905,565	716,284 \$ 109,715,341	\$ 190,224
Adjustments	\$	\$ 7,641,284	\$ 6,548,738	\$ 1,092,546
Maritime Link	MWh \$	1,169,835 \$ 164,000,000	829,459 \$ 162,000,000	\$ 2,000,000
		\$ 681,635,765	\$ 672,125,267	\$ 9,510,968
			Foreign Exchange Load Solid Fuel Oil COMFIT IPP Biomass Wind Other Maritime Link Natural Gas Imports Total	\$ 10,372,522 \$ 1,074,759



			Total	20	020 Strat Plan		Variance
				\$/M\			
Load Increase			33,922.00		62.66		2,125,552.52
Solid Fuel	mmBtu \$	\$	48,743,433 159,195,259	\$	54,297,957 166,220,475	\$	(7,025,216)
Natural Gas	mmBtu \$	\$	4,110,151 27,949,648	\$	3,178,188 20,422,432	\$	7,527,216
Natural Gas Hedges	\$	\$	-	\$	-	\$	-
Biomass	mmBtu	Φ.	4,187,503	Φ.	4,188,275	•	500 444
	\$	\$	28,703,454	\$	28,183,040	\$	520,414
HFO	mmBtu \$	\$	1,105,197 9,868,750	\$	1,594,238 13,621,119	\$	(3,752,369)
Furnace Oil	mmBtu \$	\$	112,628 1,972,589	\$	124,246 1,930,863	\$	41,726
Discal	ma ma Dás s		400		2.400		
Diesel	mmBtu \$	\$	486 8,768	\$	2,188 31,885	\$	(23,117)
Additives	\$	\$	4,085,979	\$	4,125,065	\$	(39,086)
Hg Additives	\$	\$	8,868,094	\$	9,317,947	\$	(449,853)
Imports	MWh		1,578,513		1,016,947		
	\$	\$	76,566,454	\$	41,965,560	\$	34,600,894
Wind	MWh \$	\$	1,098,991 81,180,452	\$	1,099,821 81,290,352	\$	(109,899)
IPP's	MWh		115,651		116,457		
	\$	\$	33,038,066	\$	32,980,178	\$	57,888
COMFIT	MWh	•	716,290	•	716,290	•	400.000
	\$	\$	110,095,825	\$	109,905,565	\$	190,260
Adjustments	\$	\$	6,394,075	\$	7,641,284	\$	(1,247,209)
Maritime Link	MWh	_	1,171,305	_	1,169,835		
	\$	\$	164,000,000	\$	164,000,000	\$	=
		\$	711,927,413	\$	681,635,765	\$	30,291,649
				Load Coal Oil Othe Wind IPP COM Bion	er d MFIT nass ural Gas		4,059,288.60 2,125,552.52 (7,514,155) (3,733,760) (1,247,209) (109,899) 57,888 190,260 520,414 7,527,216 34,600,894
				Tota		\$	30,291,649

Fuel Stability Plan CA IR-10 Attachment 2 Page 1 of 1



2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

CONFIDENTIAL (Attachment Only)

1	Requ	est IR-11:
2		
3	Refer	rence p. 35, Figure 10.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 10. Please provide copies of all
7		linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive Figure 10.
11		
12	(c)	Please provide a version of Figure 10 which includes all comparable data for 2020.
13		
14		(i) Please provide a copy of the electronic spreadsheet file, with all cell formulas
15		and file linkages intact, relied on to generate the version of Figure 10 which
16		includes comparable data for 2020. Please provide copies of all linked
17		spreadsheet files.
18		
19		(ii) Please provide copies of all workpapers, including electronic spreadsheets
20		with cell formulas and file linkages intact, relied on to derive the comparable
21		data for 2020.
22		
23	Respo	onse IR-11:
24		
25	(a)	Please refer to Confidential Attachment 1 which has also been updated to include
26		comparable data for 2020 in response to (c).
27		
28	(b)	The data used to generate Figure 10 are the 2016 BCF Compliance and 2017 to 2019 fuel
29		decks provided in NS Power's 2017-2019 Fuel Stability Plan as Appendix A OE-01B
30		Confidential Attachment 1, Appendix A OE-01A Confidential Attachment 1, Appendix

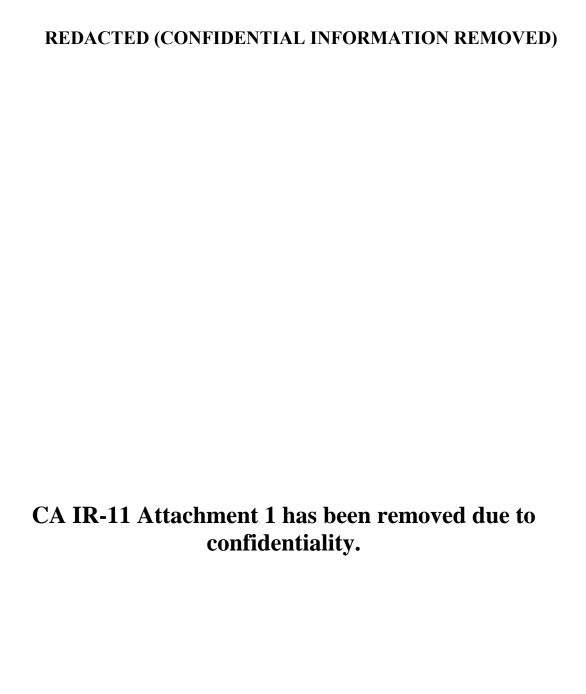
Date Filed: April 8, 2016

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1		OE-01A Confidential Attachment 2, and Appendix A OE-01A Confidential Attachment
2		3. The 2020 Forecast fuel deck is contained in CA IR-7 Confidential Attachment 3.
3		
4	(c)	Please refer to parts (a) and (b).

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	est IR-12:			
2					
3	Refer	rence pp. 36-38, Figure 11.			
4					
5	(a)	Please provide a copy of the electronic spreadsheet file or files, with all cell formulas			
6		and file linkages intact, relied on to generate Figure 11 for each year from 2016			
7		through 2019. Please provide copies of all linked spreadsheet files.			
8					
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell			
10		formulas and file linkages intact, relied on to derive Figure 11 for each year from			
11		2016 through 2019.			
12					
13	(c)	Please provide a version of Figure 11 for the year 2020.			
14					
15		(i) Please provide a copy of the electronic spreadsheet file, with all cell formulas			
16		and file linkages intact, relied on to generate the 2020 version of Figure 11.			
17		Please provide copies of all linked spreadsheet files.			
18					
19		(ii) Please provide copies of all workpapers, including electronic spreadsheets			
20		with cell formulas and file linkages intact, relied on to derive the 2020 version			
21		of Figure 11.			
22					
23	Respo	onse IR-12:			
24					
25	(a)	Please refer to Confidential Attachment 1 for Figure 11 which has been updated to			
26		include comparable data for 2020 in response to (c).			
27					
28	(b)	The data used to generate Attachment 1 come from the 2016 BCF Compliance forecast			
29		fuel deck, provided in NS Power's 2017-2019 Fuel Stability Plan as Appendix A OE-01B			
30		Confidential Attachment 1, the 2017 to 2019 BCF forecast fuel decks provided in NS			

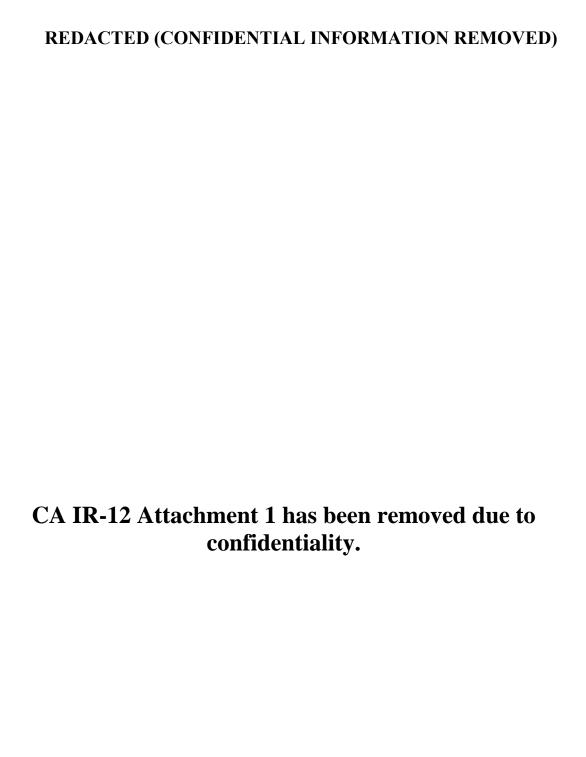
Date Filed: April 8, 2016

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1		Power's 2017-2019 Fuel Stability Plan as Appendix A OE-01A Confidential Attachments
2		1-3 and the 2020 BCF Forecast fuel deck, which is contained in CA IR-7 Attachment 3.
3		
4	(c)	Please see (a) and (b) updated to include comparable data for 2020.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	nest IR-13:
2		
3	Refe	rence pp. 39-40, Figure 12.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file or files, with all cell formulas
6		and file linkages intact, relied on to generate Figure 12 for each year from 2016
7		through 2019. Please provide copies of all linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive Figure 12 for each year from
11		2016 through 2019.
12		
13	(c)	Please describe in detail how the Nova Scotia Block was modeled in the Plexos
14		simulation of plant dispatch in the years 2018 through 2020. Please include in this
15		description whether the Nova Scotia Block was modeled as a must-take block
16		purchase with a zero dispatch cost.
17		
18	(d)	Please describe in detail how the Supplemental Energy was modeled in the Plexos
19		simulation of plant dispatch in the years 2018 through 2020. Please include in this
20		description whether the Supplemental Energy was modeled as a must-take block
21		purchase with a zero dispatch cost.
22		
23	(e)	Please provide a version of Figure 12 for the year 2020.
24		
25		(i) Please provide a copy of the electronic spreadsheet file, with all cell formulas
26		and file linkages intact, relied on to generate the 2020 version of Figure 12.
27		Please provide copies of all linked spreadsheet files.
28		

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1		(ii) Please provide copies of all workpapers, including electronic spreadsheets
2		with cell formulas and file linkages intact, relied on to derive the 2020 version
3		of Figure 12.
4		
5	Respo	onse IR-13:
6		
7	(a)	Please refer to Confidential Attachment 1 for Figure 12 updated to include comparable
8		data for 2020.
9		
10	(b)	The data used to generate Confidential Attachment 1 is from the 2016 to 2019 fuel decks
11		provided in NS Power's Application as Appendix A OE-01B Confidential Attachment 1
12		and Appendix A OE-01A Confidential Attachments 1 to 3. The 2020 Forecast fuel deck
13		is contained in CA IR-7 Confidential Attachment 3.
14		
15	(c)	The Maritime Link Nova Scotia Block is the portion of energy assumed to be available
16		on-peak and in-service starting April 1, 2018. The energy is modeled as a 153 MW
17		purchase available 7 days a week for 16 hours a day (7AM to 11PM) which results in an
18		annual energy of 894 GWh per year. The model does have the ability to vary the hourly
19		dispatch by plus or minus 40 MW (113 MW to 193 MW) for load following purposes
20		while still maintaining the annual total energy. The block is dispatched at zero cost and
21		is considered must-take energy.
22		
23	(d)	The Maritime Link Supplemental Energy is the portion of energy assumed to be available
24		off-peak in winter months (November to March) for the first five years. Although the
25		Maritime Link energy is assumed in-service starting April 1, 2018, energy from the
26		Supplemental Block is forecast to begin to flow November 1, 2018. The energy is
27		modeled as a 223 MW purchase available 7 days a week for 8 hours a day (11PM to
28		7AM) which results in an annual energy of 269 GWh per year. The model does have the
29		ability to vary the hourly dispatch by plus or minus 40 MW (183 MW to 263 MW) for

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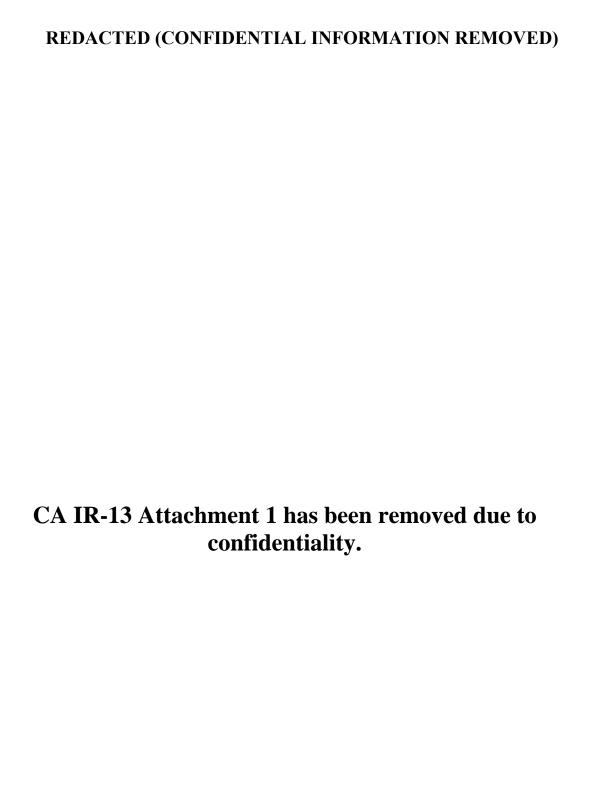
2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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load following purposes while still maintaining the annual total energy. The block is dispatched at zero cost and is considered must-take energy.

Please see responses to (a) and (b).

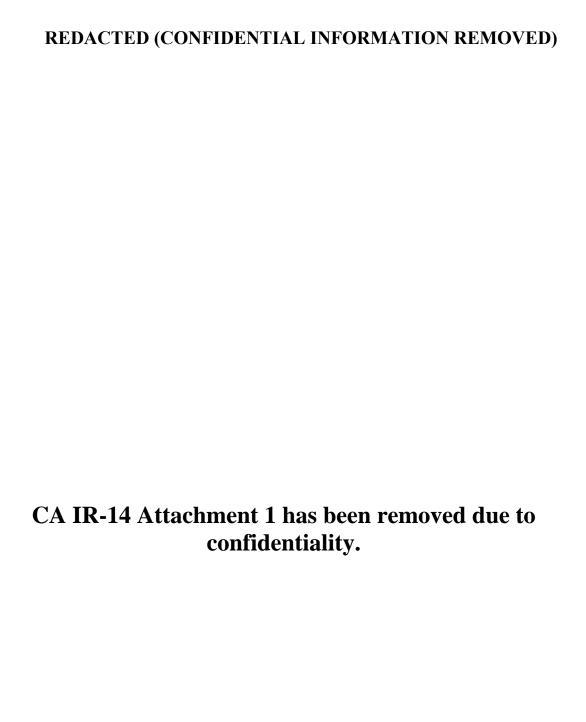
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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Reau	est IR-1	4:
2	4.		
3	Refe	rence n. 4	47, Figure 17.
4	110101	circe pr	
5	(a)	Please	provide a copy of the electronic spreadsheet file, with all cell formulas and
6	()		akages intact, relied on to generate Figure 17. Please provide copies of all
7			spreadsheet files.
8		mineu	spreadsneet mes.
9	(b)	Please	provide copies of all workpapers, including electronic spreadsheets with cell
10	()		las and file linkages intact, relied on to derive Figure 17.
11			
12	(c)	Please	provide a version of Figure 17 which includes the forecasted gas price for
13	, ,	2020.	
14			
15		(i)	Please provide a copy of the electronic spreadsheet file, with all cell formulas
16			and file linkages intact, relied on to generate the version of Figure 17 which
17			includes the forecasted gas price for 2020. Please provide copies of all linked
18			spreadsheet files.
19			
20		(ii)	Please provide copies of all workpapers, including electronic spreadsheets
21			with cell formulas and file linkages intact, relied on to derive the forecasted
22			gas price for 2020.
23			
24	Resp	onse IR-1	4:
25			
26	(a)	Please	refer to Confidential Attachment 1.
27	, ,		
28	(b)	Please	refer to Liberty IR-2 Confidential Attachment 1.
29			•
30	(c)	Please	refer to Confidential Attachment 1 and CA IR-7 Confidential Attachment 3.



2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	est IR-15:
2		
3	Refer	ence p. 51, Figure 20.
4		
5	(a)	Please provide an electronic spreadsheet version, with all cell formulas and file
6		linkages intact, of Figure 20 which includes all comparable data for 2020. Please
7		provide copies of all linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the version of Figure 20 which
11		includes comparable data for 2020.
12		
13	Respo	nse IR-15:
14		
15	(a-b)	There is no Excel file for Figure 20 as the summary table was created in Word. Please
16		refer to Appendix A OE-01A Confidential Attachments 1 to 3 (tab 28) for the source data
17		for this table. Please refer to CA IR-7 Confidential Attachment 3 (tab 28) for forecast
18		2020 biomass fuel costs and solid fuel generation. The Fuel Cost (\$/MWh) is calculated
19		by dividing the biomass cost by the biomass solid fuel generation.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

1	Requ	est IR-16:
2		
3	Refer	ence p. 52, Figure 21.
4		
5	(a)	Please provide an electronic spreadsheet version, with all cell formulas and file
6		linkages intact, of Figure 21 which includes all comparable data for 2020. Please
7		provide copies of all linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the version of Figure 21 which
11		includes comparable data for 2020.
12		
13	Respo	nse IR-16:
14		
15	(a-b)	There is no Excel file for Figure 21 as the summary table was created in Word. Please
16		refer to Appendix A OP-08 Confidential Attachment 1 for the source data for this table.
17		Please refer to CA IR-7 Confidential Attachment 3 (tab 9) for forecast 2020 renewable
18		generation. There is no expected change in IPP Wind or IPP Other capacity for 2020 (it
19		will remain at MW).

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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Request IR-17:

3 Reference p. 53, Figure 22.

(a) Please provide an electronic spreadsheet version, with all cell formulas and file linkages intact, of Figure 22 which includes all comparable data for 2020. Please provide copies of all linked spreadsheet files.

(b) Please provide copies of all workpapers, including electronic spreadsheets with cell formulas and file linkages intact, relied on to derive the version of Figure 22 which includes comparable data for 2020.

13 Response IR-17:

(a) There was an error in COMFIT capacity (2017-2019) in Figure 22. The Generation and percentages were not affected. A revised table is below:

Figure 1 – COMFIT Forecast 2017 – 2019 (REVISED)

	2017		2	018	2019	
	Capacity (MW)	Generation (GWh)	Capacity (MW)	Generation (GWh)	Capacity (MW)	Generation (GWh)
COMFIT	173.6	636	179.7	716	179.7	716
% Fuel Cost 17.5%		16.3%		16.1%		
% Generation 5.6%		6.3	3%	6.3%		

There is no Excel file for Figure 22 as the summary table was created in Word. Please refer to Appendix A OP-08 Confidential Attachment 1 for the source data for this table. Please refer to CA IR-7 Confidential Attachment 3 (tab 9) for forecast 2020 renewable generation. There is no expected change in COMFIT capacity for 2020 (the forecast remains at 179.7 MW).

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1 (b) Please refer to Attachment 1 for the Excel file for the calculation of the percent Fuel Cost 2 and percent Generation values in Figure 22. Data for 2020 have been added to this table.

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Fuel Stability Plan CA IR-17 Attachment 1 Page 1 of 1

COMFIT

	2017	2018	2019	2020
% of Costs	17.5%	16.3%	16.1%	15.5%
% of Generation	5.6%	6.3%	6.3%	6.3%

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

NON-CONFIDENTIAL

1	Requ	iest IR-1	8:
2			
3	Refe	rence p.	55, ll. 15-24.
4			
5	(a)	Please	e provide in an electronic spreadsheet, with all cell formulas and file linkages
6		intact	:
7			
8		(i)	NS Power's calculation of the annual RES energy requirement in each year
9			from 2016 through 2020.
10			
11		(ii)	NS Power's forecast for the years 2016 through 2020 of annual generation
12			from each NS Power-owned, IPP, and COMFIT renewable asset.
13			
14		(iii)	NS Power's calculation of the annual renewable generation in excess of the
15			annual RES energy requirement in each year from 2016 through 2020.
16			
17	(b)	Please	provide copies of all linked spreadsheet files.
18			
19	Resp	onse IR-1	18:
20			
21	(a)	(i)	Please refer to Attachment 1. This calculation does not include the NS Block of
22			the Maritime Link energy as renewable energy in 2018 and 2019.
23			
24		(ii)	Please refer to Appendix A OE-01B Confidential Attachment 1 (tab 9) for 2016
25		,	BCF Compliance forecast, Appendix A OE-01A Confidential Attachments 1 to 3
26			(tab 9) for 2017-2019 BCF Forecasts and to CA IR-7 Confidential Attachment 3
27			(tab 9) for 2020.
28			(110 7) 101 2020.
29 29		(iii)	Please refer to Attachment 1.
29 30		(111)	rease refer to Attachment 1.
50			

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	(b)	Renewable Generation information is sourced from Appendix A OE-01B Confidential
2		Attachment 1 for the 2016 BCF Compliance forecast, Appendix A OE-01A Confidential
3		Attachments 1 to 3 for the 2017-2019 BCF forecasts and CA IR-7 Confidential
4		Attachment 3 for 2020 forecast.

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Fuel Stability Plan CA IR-8 Attachment 1 Page 1 of 1

Year Renewables in MWh	2016 3,281,880	2017 3,356,852	2018 3,428,881	2019 3,449,009	2020 4,618,339
Total Electric Sales in MWh	10,437,653	10,547,372	10,588,904	10,602,482	10,639,541
Target RES MWh Target RES %	2,609,413 25%	2,636,843 25%	2,647,226 25%	2,650,620 25%	4,255,816 40%
Forecasted RES %	31.4%	31.8%	32.4%	32.5%	43.4%
Forecasted Excess Renewable Generation in MWh	672,467	720,009	781,655	798,389	362,523

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

NON-CONFIDENTIAL

1	Request IR-19:
2	
3	Reference p. 56, ll. 2-4.
4	
5	Please explain and quantify how the Maritime Link transmission projects affect NS
6	Power's ability to import energy from New Brunswick, and how that ability was modeled
7	in the Application.
8	
9	Response IR-19:
10	
11	The Maritime Link transmission projects are required to support a Firm point to point
12	transmission reservation from Nova Scotia to the New Brunswick border (export). There are no
13	Maritime Link transmission projects on the New Brunswick side of the border. Transmission
14	capability associated with power imported from New Brunswick is primarily limited by
15	transmission restrictions within New Brunswick, and is therefore not affected by Maritime Link
16	transmission projects.

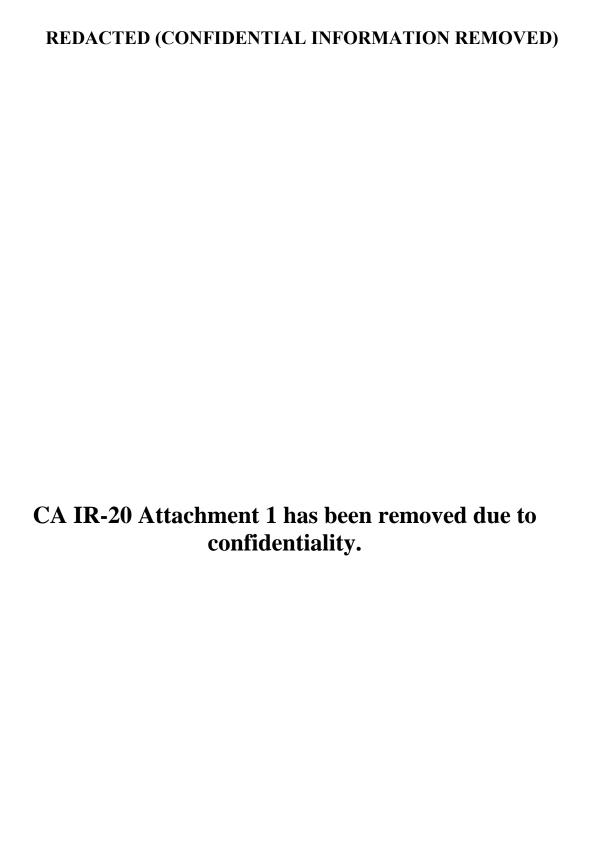
Date Filed: April 8, 2016 NSPI (CA) IR-19 Page 1 of 1

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

CONFIDENTIAL (Attachment Only)

1	Requ	est IR-20:
2		
3	Refer	ence p. 56, Figure 23.
4		
5	(a)	Please provide an electronic spreadsheet version, with all cell formulas and file
6		linkages intact, of Figure 23 which includes all comparable data for 2020. Please
7		provide copies of all linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the version of Figure 23 which
11		includes comparable data for 2020.
12		
13	Respo	nse IR-20:
14		
15	(a-b)	Please refer to Appendix A OE-01A Confidential Attachments 1 to 3 for the data used to
16		develop Figure 23 in the Application. An update to Figure 23 that includes data for 2020
17		is provided as Confidential Attachment 2. The data used to update this figure have also
18		been provided in CA IR-7 Confidential Attachment 3.

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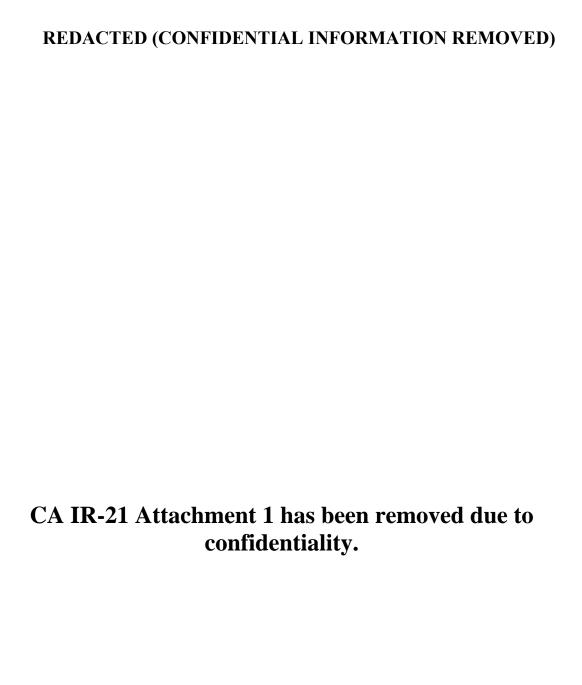


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CONFIDENTIAL (Attachment Only)

1	Requ	est IR-21:
2		
3	Refe	rence p. 59, Figure 25.
4		
5	(a)	Please provide an electronic spreadsheet version, with all cell formulas and file
6		linkages intact, of Figure 25 which includes all comparable data for 2020. Please
7		provide copies of all linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the version of Figure 25 which
11		includes comparable data for 2020.
12		
13	Resp	onse IR-21:
14		
15	(a)	Please refer to Confidential Attachment 1.
16		
17	(b)	Please refer to Appendix A OE-01A Confidential Attachments 1 to 3 of the Company's
18		Application for the 2017 to 2019 Total Fuel and Purchased Power Costs and CA IR-7
19		Confidential Attachment 3 for the 2020 Total Fuel and Purchased Power Costs.
20		
21		Please refer to Fuel Stability Filing Partially Confidential Appendix G for the 2017 to
22		2019 Fuel and Purchased Power Costs allocation between Above- and Below-the-Line
23		customer classes. Please refer to CA IR-2 Partially Confidential Attachment 2 for the
24		2020 Fuel and Purchased Power Costs allocation between Above- and Below-the-Line
25		customer classes.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

NON-CONFIDENTIAL

1 Request IR-22:

2

3 Reference p. 62, Figure 26.

4

5 Please provide a version of Figure 26 which includes all comparable data for 2020.

6

7 Response IR-22:

8

Energy	2015	2016 BCF	2017	2018	2019	2020
(GWH)	Actuals	Forecast	Forecast	Forecast	Forecast	Forecast
Residential	4,484	4,485	4,509	4,549	4,583	4,629
Commercial	3,134	3,163	3,103	3,088	3,077	3,079
Industrial	2,457	2,498	2,605	2,622	2,623	2,619
Other	305	289	282	280	273	262
Losses	718	759	736	721	726	722
Net System Requirement	11,098	11,195	11,235	11,260	11,281	11,312

9

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	iest IR-23:
2		
3	Refe	rence p. 73, Figure 28.
4		
5	(a)	Please provide a version of Figure 28 which includes comparable data for 2020.
6		
7	(b)	Please provide documentation and workpapers supporting each cost element of the
8		Maritime Link Anticipated Assessment in Figure 28 for each year from 2018
9		through 2020. The response should also identify all assumptions used in formulating
10		the forecasted costs.
11		
12	(c)	Please provide calculations supporting "Equity Financing Costs" for each year from
13		2018 through 2020. The response should verify that the equity financing costs are
14		consistent with the inputs described on page 76 and should provide forecasted
15		balance sheets supporting the balances of equity on which the Equity Financing
16		Costs are based.
17		
18	Resp	onse IR-23:
19		
20	(a)	Please refer to NSUARB IR-17(d).
21		
22	(b)	Information supporting each cost element is provided in NSUARB IR-17.
23		
24	(c)	Please refer to NSUARB IR-17(b).

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Reque	est IR-2	4:							
2										
3	Refer	ence p.	73, line 7.							
4										
5	(a)	Please	provide NS Power's current estimate annual revenue requirements for the							
6		years	2017 to 2020 for:							
7										
8		(i)	Maritime Link-related NS Power transmission investments.							
9										
10		(ii)	The forecast offset from OATT revenues for wheeling of power from the							
11			Maritime Link to New Brunswick.							
12										
13	(b)	Please	provide copies of all workpapers, including electronic spreadsheets with cell							
14		formu	ormulas and file linkages intact, relied on to derive the estimate of annual revenue							
15		requir	requirements for:							
16										
17		(i)	Maritime Link-related NS Power transmission investments.							
18										
19		(ii)	The forecast offset from OATT revenues for wheeling of power from the							
20			Maritime Link to New Brunswick.							
21										
22	Respo	nse IR-2	24:							
23										
24	(a-b)	The C	ompany has not performed the requested analysis as part of this Application.							
25										
26		(i)	There are no FAM-related revenue requirements related to the Maritime Link							
27			transmission projects. Since these projects fall outside of the FAM, the Company							
28			has not forecast the specific revenue requirement for these projects as part of this							
29			Application. The total forecast capital expenditure for these four projects is							
30			provided in the table below							

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1 2

	Current estimate
43324 L6513 Rebuild Line	\$22,067,148
43678 Strait Crossing L8004/L7005	\$10,767,280
45066 Upgrade L6511 / L7019	\$3,957,530
45067 Onslow Node Swap	\$3,750,474

3

(ii) OATT revenues are not part of the FAM as they applied to the operation and maintenance of the transmission system. However, the current forecast for flow through energy in the Application is as follows:

7

5

6

Year	On-Peak	Off-Peak				
2018	834GWh	88GWh				
2019	738GWh	82GWh				

8

Tariff revenues related to these energy forecasts using the Monthly Proxy Rate in the NS Transmission Utilization Agreement (\$4.91/MWh) are:

11

10

Year	Forecasted OATT revenues related to ML flow-through energy
2018	\$4.5M
2019	\$4.0M

12

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

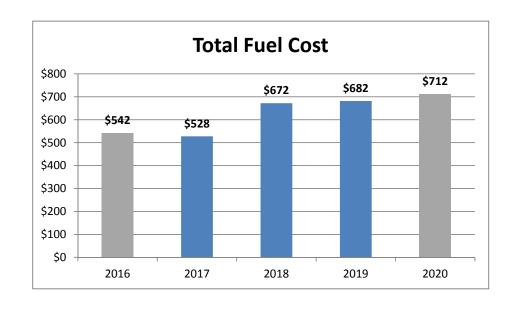
NON-CONFIDENTIAL

1	Requ	est IR-25:
2		
3	Refer	rence p. 77, Figure 30.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 30. Please provide copies of all
7		linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the annual fuel costs for the
11		years 2016 through 2020 shown in Figure 30.
12		
13	Respo	onse IR-25:
14		
15	(a)	Please refer to Attachment 1.
16		
17	(b)	The numbers used to generate Figure 30 are the Total Fuel and Purchased Power amounts
18		included in the 2016 BCF Compliance Forecast fuel deck, provided as Appendix A OE-
19		01B Confidential Attachment 1, the 2017-2019 BCF Forecast, provided as Appendix A
20		OE-01A Confidential Attachments 1 to 3 and the 2020 BCF Forecast, provided as CA
21		IR-7 Confidential Attachment 3.

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Fuel Stability Plan CA IR-25 Attachment 1 Page 1 of 1

Year	Total Fuel Cost
2016	\$542
2017	\$528
2018	\$672
2019	\$682
2020	\$712



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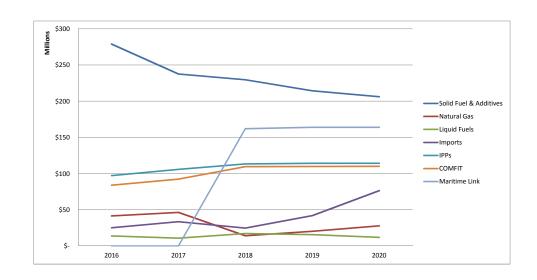
I	Requ	lest 1R-26:
2		
3	Refe	rence p. 78, Figure 31.
4		
5	(a)	Please provide a copy of the electronic spreadsheet file, with all cell formulas and
6		file linkages intact, relied on to generate Figure 31. Please provide copies of all
7		linked spreadsheet files.
8		
9	(b)	Please provide copies of all workpapers, including electronic spreadsheets with cell
10		formulas and file linkages intact, relied on to derive the annual fuel costs by
1		component for the years 2016 through 2020 shown in Figure 31.
12		
13	Respo	onse IR-26:
14		
15	(a)	Please refer to Attachment 1 for Figure 31.
16		
17	(b)	The data used to generate Figure 31 come from the 2016 BCF Compliance Forecast fuel
18		deck, provided as Appendix A OE-01B Confidential Attachment 1, the 2017 to 2019
19		BCF Forecast fuel decks provided in NS Power's 2017-2019 Fuel Stability Plan as
20		Appendix A OE-01A Confidential Attachments 1-3 and the 2020 BCF Forecast fuel deck
21		provided as CA IR-7 Confidential Attachment 3.

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Fuel Stability Plan CA IR-26 Attachment 1 Page 1 of 1

	2016	2017	2018	2019	2020
Solid Fuel & Additives	\$ 278,948,895	\$ 237,576,236	\$ 229,788,129	\$ 214,404,895	\$ 206,158,623
Natural Gas	\$ 41,639,639	\$ 46,449,606	\$ 14,143,843	\$ 20,422,432	\$ 27,949,648
Liquid Fuels	\$ 13,861,969	\$ 10,833,644	\$ 17,288,386	\$ 15,583,867	\$ 11,850,107
Imports	\$ 25,270,791	\$ 33,493,985	\$ 24,739,489	\$ 41,965,537	\$ 76,566,454
IPPs	\$ 97,232,936	\$ 105,813,927	\$ 113,383,159	\$ 114,270,530	\$ 114,218,518
COMFIT	\$ 84,010,640	\$ 92,312,638	\$ 109,715,341	\$ 109,905,565	\$ 110,095,825
Maritime Link	\$ -	\$ -	\$ 162,000,000	\$ 164,000,000	\$ 164,000,000

Solid Fuel includes Biomass Liquid Fuels is HFO, LFO, Diesel



2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Request IR-27:	
2		
3	Refer	ence p. 79, ll. 1-3.
4		
5	(a)	Please provide copies of all workpapers, including electronic spreadsheets with cel
6		formulas and file linkages intact, relied on to derive the finding that each 0.1
7		percentage point change to the 1.3% average annual increase translates into an
8		opposite change of 0.9 percentage points in the forecasted rate change for 2020.
9		
10	(b)	Please provide an electronic spreadsheet that would allow the Consumer Advocate
11		to determine the impact of a change to the average annual increase for the
12		residential class on the forecasted residential rate change for 2020.
13		
14	Response IR-27:	
15		
16	(a-b)	Please refer to IG IR-25.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Request IR-28:		
2			
3	Refe	rence p	. 91, Il. 22-25.
4			
5	(a)	Pleas	e provide NS Power's current estimate of the breakdown of the monetized
6		bene	fits of the Maritime Link, including at least:
7			
8		(i)	The avoided costs of wind development or other renewables.
9			
10		(ii)	The avoided costs of wind-related transmission or other integration costs.
11			
12		(iii)	The avoided costs of gas-fired generation.
13			
14		(iv)	The annual savings from purchases of economy energy facilitated by the
15			Maritime Link.
16			
17	(b)	Pleas	se identify and explain the differences between NS Power's current estimate of
18		the b	penefits of the Maritime Link and NS Power's last set of estimates in the
19		Mari	time Link proceeding, Matter No. 5419.
20			
21		(i)	If the forecast in this proceeding includes lower take of Maritime Link
22			surplus energy than forecast in Matter No. 5419, please explain why,
23			including the underlying price changes that driven the change in the
24			projections.
25			
26	(c)	Pleas	se explain how each of the costs avoided by the Maritime Link would have been
27		alloc	ated among classes, if NS Power had undertaken the alternative supply plan.
28			

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Response IR-28:	
2		
3	(a-c)	Page 91, lines 22-25 of the Application describe the Cost of Service treatment of the
4		Maritime Link assessment. The requested analysis was not conducted for the purpose of
5		the Application.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

		NON-CONFIDENTIAL
1	Requ	nest IR-29:
2		
3	Refe	rence Appendix D, pp. 1-2.
4		
5	(a)	Please explain in detail how it was determined that increasing the type and volume
6		of hedges to the indicated percentage of forecast consumption was reasonable
7		Please provide copies of any reports by NS Power or its consultants that assessed the
8		reduction in fuel-cost variability from the proposed hedge program and determined
9		that the benefits from increased rate stability justified the costs of the program.
10		
11	(b)	Please explain in detail how it was determined that the proposed hedge program
12		would offer greater rate stability than the current hedge strategy. Please provide
13		copies of any reports by NS Power or its consultants that compare the performance
14		of the proposed hedge program against the current hedge strategy.
15		
16	Resp	onse IR-29:
17		
18	(a)	The degree of price stability is directly related to the proportion of fuel hedged. Ar
19		unhedged portfolio would be completely exposed to fluctuations in market prices, and as
20		the amount of fuel hedged increases, the proportion of fuel costs exposed to the market
21		decreases. Maximum price stability is achieved when the proportion of fuel costs hedged
22		reaches 75-100% of forecast fuel requirements. Due to the highly variable nature of fuel
23		prices, in order to provide stable and predictable rates during the Rate Stability Period
24		the Company must implement a robust hedging and risk management program to manage
25		this variability. Maximizing the level of fuel cost stability through hedging 75-100% of
26		forecast fuel requirements will provide the greatest degree of fuel cost stability to
27		customers. Presently, the forward curves for many fuels exhibit a very low amount of

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contango during the Rate Stability Period, i.e. there is only a small amount of escalation

in forward prices. This will allow NS Power to hedge commodity costs for the entire

period without paying a significant premium for longer dated futures, providing further

28

29

30

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1		stability for customers. In its hedging activity, NS Power will ensure that only reasonable
2		and prudent costs are incurred in support of the objective of fuel cost and rate stability.
3		
4	(b)	Compared to NS Power's current hedging program, the proposed Fuel Hedging Plan
5		increases the proportion of forecast fuel requirements to be hedged. Maximizing the
6		level of fuel cost stability through hedging 75-100% of forecast fuel requirements will
7		provide a greater degree of fuel cost stability to customers by reducing or offsetting
8		exposure to variable market prices for fuel.

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

1	Request IR-30:	
2		
3	Refer	ence Appendix D, p. 2. Please explain in detail how cost-effectiveness of the proposed
4	hedgi	ng program will be determined. As part of this explanation:
5		
6	(a)	Please describe in detail all of the costs associated with the proposed hedge program.
7		
8	(b)	Please describe in detail the metric that will be used to measure the benefits
9		associated the proposed hedge program (e.g., reduction in portfolio VaR).
10		
11	(c)	Please describe in detail how costs will be compared to the benefits metric to
12		determine cost-effectiveness.
13		
14	Respo	onse IR-30:
15		
16	(a)	Brokerage charges are incurred when using a broker to facilitate a hedging transaction.
17		These charges vary, but are typically levied per unit of underlying commodity transacted
18		(e.g, /MWh or //MMBtu). NS Power anticipates requiring brokers for some
19		of its hedging activities during the Rate Stability Period.
20		
21		Exchange fees are paid when centrally cleared exchange traded contracts are executed.
22		These fees are generally applied on a per contract basis. If posted margin is required,
23		either to an exchange for cleared transactions or to a bilateral counterparty, there are
24		funding costs associated with posting this collateral.
25		
26	(b)	Value at Risk (VaR) is the primary risk metric that will be used to measure the
27		effectiveness of the hedging program. The magnitude of the reduction in portfolio level
28		VaR will be a key indicator of the effectiveness of the Fuel Hedging Plan.
29		

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

REDACTED

1	(c)	The expected direct increase in the total fuel and purchase power will be estimated, as
2		well as the expected reduction in portfolio level VaR. Should an increase in fuel costs be
3		expected as a result of executing the hedge, it would only be entered if there is a
4		commensurate decrease in VaR resulting from the hedge. The Company will endeavour
5		to keep an appropriate balance between the dual objectives of affordability and stability is
6		maintained throughout its fuel hedging and procurement activities.

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Requ	est IR-31:
Refer	rence Appendix D, p. 10.
(a)	When will NS Power determine the set parameters to be used in the VaR model?
(b)	How will these parameters be compared to the existing VaR model parameters?
Respo	onse IR-31:
(a)	NS Power expects to determine the parameters to be used in the calculation of VaR by
	the end of Q2 2016.
(b)	As NS Power is currently in the process of implementing new energy trading risk
	management (ETRM) software (Allegro), the calculation of VaR will be performed in
	Allegro, whereas the existing VaR calculations are performed in the Excel-based model.
	The parameters used in the existing model will be reviewed in determining the
	parameters to be used in Allegro.
	Refer (a) (b) Respond

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1	Requ	iest IR-	32:
2			
3	Refe	rence A	ppendix E, p. 4, ll. 3-4.
4			
5	(a)	Pleas	se provide copies of the documents that were provided by NS Power.
6			
7	(b)	Pleas	se provide copies or web links to all of the publicly available documents
8		revie	wed by Mr. Moreno.
9			
10	Resp	onse IR	-32:
11			
12	(a)	Mr. N	Moreno has confirmed that in addition to the Fuel Hedging Plan, he relied upon the
13		follov	wing documents provided by NS Power in forming his opinion:
14			
15		(i)	Natural Gas Hedging Strategy from Concentric Energy Advisors. Please refer to
16			Confidential Attachment 1.
17			
18		(ii)	2016 FAM Base Cost of Fuel Application dated August 10, 2015 (M06962).
19			Please refer to Confidential Attachment 2.
20			
21		(iii)	NS Power Fuel Manual, Revision #8. Please refer to Confidential Attachment 3.
22			
23		(iv)	Fuel Hedging in Support of Stabilization Plan, September 24, 2015. Please refer
24			to Confidential Attachment 4.
25			
26	(b)	Mr.	Moreno has confirmed that he relied upon the following publicly available
27		docui	ments in forming his opinion:
28			
29		(i)	2015 Electricity Plan Implementation (2015) Act. Please refer to
30			http://nslegislature.ca/legc/PDFs/annual%20statutes/2015%20Fall/c031.pdf.

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1		
2	(ii)	Our Electricity Future, Nova Scotia's Electricity Plan 2015-2040. Please refer to
3		http://energy.novascotia.ca/sites/default/files/Our-Electricity-Future.pdf.

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REDACTED (CONFIDENTIAL INFORMATION	N REMOVED)
CA IR-32 Attachments 1-4 have been rem	oved due to
CA IR-32 Attachments 1-4 have been rem confidentiality.	oved due to
	oved due to

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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Request IR-33: 1 2 3 Reference Appendix E, p. 4 ll. 19-20. 4 5 Please describe in detail each of the uneconomical or unfeasible risks that the proposed 6 hedge plan does not address. 7 8 Response IR-33: 9 10 Please refer to Appendix E, pp. 11-12.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	iest IR-34:
2		
3	Refe	rence Appendix E, p. 5, at 14.
4		
5	(a)	How does the Plan measure the uncertainty in NS Power's Fuel Costs?
6		
7	(b)	How does the Plan measure the uncertainty in NS Power's Fuel Costs by fuel type?
8		
9	Resp	onse IR-34:
10		
11	(a)	Value at Risk (or Forecast at Risk as applied in this specific framework) will be the key
12		measure of the uncertainty in NS Power's fuel costs. This measure will be calculated
13		using the Allegro ETRM software.
14		
15	(b)	The process for calculating uncertainty for each fuel type will be the same as for the
16		aggregated portfolio-level uncertainty as described in (a) above.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	est IR-35:
2		
3	Refer	ence Appendix E, p. 6, ll. 10-12. Please describe in detail how it will be determined
4	wheth	ner it is cost-effective to execute a particular hedge to "address variability beyond
5	what	the operational flexibility allows."
6		
7	(a)	Please explain in detail how the cost of a particular hedge will be determined.
8		
9	(b)	Will the benefit of a particular hedge be measured as reduction in the portfolio
10		VaR? Please explain.
11		
12	(c)	Please explain in detail how the cost of a particular hedge will be compared to the
13		benefit to determine cost-effectiveness.
14		
15	Respo	onse IR-35:
16		
17	(a)	Please refer to NSUARB IR-11 (d).
18		
19	(b-c)	The primary benefit of a hedge for NS Power is in its ability to create price stability as
20		this is the guiding principle of the Rate Stability Period. The hedge will therefore be
21		beneficial if it provides fuel cost stability. The benefit of the hedges is the degree of
22		reduction in fuel cost variability relative to an unhedged portfolio. VaR will be used as
23		one indicator of the expected level of stability in projected fuel costs.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Request IR-36:
2	
3	Reference Appendix E, p. 7, ll. 13-14.
4	
5	Please explain why cost-effectiveness is not one of the measures that determine the
6	reasonableness of a hedge strategy.
7	
8	Response IR-36:
9	
10	While not explicitly identified, cost-effectiveness is a measure included in the proposed Fuel
11	Hedging Plan, but its applicability is more directly associated with the selection of the hedging
12	instrument. Please refer to CA IR-35.
13	
14	As noted on page 7 of Mr. Moreno's testimony, "the reasonableness of any hedging strategy is
15	framed in terms of three principles: awareness, measurement and decisions making." The
16	reasonableness of the Fuel Hedging Plan is in how hedging contributes to rate stability at a
17	reasonable cost. Measurement incorporates the cost-effectiveness of a hedge strategy as it
18	influences the selection of the instrument.
19	
20	Additionally, and as noted on page 8 of Mr. Moreno's testimony, "the measurement principle
21	therefore identifies how relevant a particular risk is, or how it interacts with other risks that may
22	affect the rates to customers." In other words, the measurement principle incorporates the cost
23	effectiveness of the hedge.

2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Requ	uest IR-37:
2		
3	Refe	rence Appendix E, p. 13, ll. 1-4.
4		
5	(a)	Please describe in detail the benefits of the proposed plan over the existing NGHS
6		rolling hedging program.
7		
8	(b)	Does a rolling hedging strategy incorporate falling market prices?
9		
10	(c)	How does the proposed Plan reflect falling market prices?
11		
12	(d)	How are costs minimized in a hedging strategy focused on fuel price stability?
13		
14	Resp	onse IR-37:
15		
16	(a)	The benefits of the proposed Fuel Hedging Plan over the existing NGHS program are
17		described on page 12 of Mr. Moreno's testimony. As stated in his testimony "The Plan
18		differs from the NGHS in that it incorporates the exposure of all the elements of the Fuel
19		Costs collectively, not only as individual cost items. It therefore utilizes the operational
20		flexibility to switch fuels within the portfolio as the most economical process to reduce
21		the aggregate risk surrounding the Fuel Costs. It optimizes the fuel portfolio as the
22		preferred hedge, and progressively addresses remaining risk via financial or physical
23		hedges."
24		
25	(b)	In the industry a "rolling hedging strategy" is a term used to describe hedging programs
26		that execute hedges to replace expiring hedge contracts. These hedges could have been
27		placed as a function of some defined logic (e.g. as a function of time, price or risk), or
28		could just be placed by a simple logic of dollar cost averaging. While the NGHS and the
29		proposed Fuel Hedging Plan have elements of a rolling hedging strategy, they are far
30		more comprehensive than what is known in the industry as a rolling hedging strategy. As

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1		it is currently phrased, the question is not clear in that a falling market price is either a
2		feature of the market (for prices that have already expired) or an unknown potential
3		feature of the market.
4		
5	(c)	The proposed Fuel Hedging Plan addresses market conditions as they evolve. There is
6		potential for upside and downside movement. The proposed Fuel Hedging Plan
7		mandates price stability at a reasonable cost and does not have an explicit assumption that
8		market prices will increase or decrease.
9		
10	(d)	As noted on page 82 of the NS Power Fuel Stability Plan Application, "while hedging
11		increases the stability and predictability of fuel costs, it does not guarantee the lowest
12		costs are achieved." The costs of the hedges are minimized by evaluating the impact of
13		each hedge in terms of its expected reduction in overall portfolio risk using Value at Risk
14		and volumetric positions. The hedges will be rebalanced as expected volumes are
15		updated and fuel forecasts change, thereby minimizing overall costs.
16		
17		For further details as to how the cost effectiveness of hedges contributes to the hedge
18		strategy please refer to CA IR-35.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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Request IR-38:

Please provide copies of all electronic spreadsheet files linked to the electronic spreadsheets for corrected Appendices F through J.

Response IR-38:

Please refer to CA IR-2.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

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1	Request IR-39:
2	
3	Please provide electronic spreadsheet versions, with all cell formulas and file linkages
4	intact, of Appendices F through J for the year 2020. Please provide copies of all linked
5	spreadsheet files.
6	
7	Response IR-39:
8	
Q	Please refer to CA IR 2

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

NON-CONFIDENTIAL

1	Request IR-40:
2	
3	Reference p. 73.
4	
5	Please provide documentation and workpapers supporting each cost element of the
6	Maritime Link Anticipated Assessment in Figure 28. The response should also identify all
7	assumptions used in formulating the forecasted costs.
8	
9	Response IR-40:
10	
11	Information supporting each cost element is provided in NSUARB IR-17.

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2017-2019 Fuel Stability Plan and Base Cost of Fuel Reset (NSUARB M07348) NSPI Responses to Consumer Advocate Information Requests

NON-CONFIDENTIAL

1	Request IR-41:
2	
3	Reference p. 73, Figure 28.
4	
5	Please provide calculations supporting "Equity Financing Costs." The response should
6	verify that the equity financing costs are consistent with the inputs described on Page 76
7	and should provide forecasted balance sheets supporting the balances of equity on which
8	the Equity Financing Costs are based.
9	
10	Response IR-41:
11	
12	Please refer to NSUARB IR-17(b).

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