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Bath Electric Gas and Water Systems Electric Department Rate Filing

Filed on July 19, 2017

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Bath Electric Gas and Water Systems

Electric Department

Historic and Forecast Income Statements with Rate of Return

Line No).	Test Year FY 2016 A	PSC Normalizing Adjustments B		Normalized Test Year C	Known Changes		Updated Normalized Rate Year E	Increase F	Rate Year After Increase G	% Increase
1	Operating revenues	\$4,218,015	\$74,962	a)	\$4,292,977			\$4,292,977	\$625,974	\$4,918,950	14.6%
2	Operating Expenses:							•		•	
3	Purchased Power	\$2,161,685	\$22,395	b)	\$2,184,080			\$2,184,080		\$2,184,080	
4	Transmission	\$16,893			\$16,893	\$1,113	f)	\$18,005		\$18,005	
5	Distribution	\$615,063			\$615,063	\$40,513	f)	\$655,576		\$655,576	
6	Street Lighting	\$7,201			\$7,201	\$474	f)	\$82,434		\$82,434	
7	Customer Service	\$139,014			\$139,014	\$9,157	f)	\$148,171		\$148,171	
8	A&G	\$716,154			\$716,154	\$85,609	f),g),h)	\$801,762		\$801,762	
9	Depreciation	\$623,679	-\$190,029	c)	\$433,650	\$0		\$433,650		\$433,650	
10	Total Operating Expenses	\$4,279,689			\$4,112,055	\$136,865		\$4,323,679		\$4,323,679	
11	Taxes - Electric	\$65,942			\$65,942	\$3,461	i)	\$69,403		\$69,403	
11a	PILOT		\$90,972	d)	\$90,972	\$11,970	j)	\$102,942		\$102,942	
12	Uncollectible Revenues - Electric	\$9,429			\$9,429	\$621	f)	\$10,050		\$10,050	
13	Interests and Amortizations	\$0			\$0	\$51,303	k)	\$51,303		\$51,303	
14	Total Operating Expenses	\$4,355,060			\$4,278,398			\$4,557,377		\$4,557,377	
15	Operating Income	-\$137,046	\$151,624		\$14,578	-\$341,086		-\$264,401		\$361,573	
16	Rate Base	\$10,062,243	\$850,051	e)	\$10,912,294	\$57,032	1)	\$10,969,326		\$10,969,326	
17	Rate of Return	-1.36%			0.13%			-2.41%		3.30%	i)

Exhibit 3

Bath Electric Gas and Water Systems Electric Department Explanation of Adjustments

Test	Year	Normali	zation
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Test Year Normalization							
a) Revenues PPAC Impact of Test Year PPAC reconciliation				\$	21,509		
Weather Normalization - test year warmer than normalization	mal				96,461		
Growth Analysis				\$	(43,008)		
Total						\$	74,962
b) Purchased Power							
PPAC - increased cost to reverse warmer than norm	nal weath	er		\$	38,926		
PPAC - increased cost for new sales				\$	(16,531)		
						\$	22,395
c) Depreciation - to correct for errors being made by accounting	-	_				\$	(190,029)
The correct depreciation expense for FY 2016 was capital account) and another \$109,422 charged to tr \$433,650.							
d) To reflect PILOT payment made to Village as operating ex	pense					\$	90,972
e) Rate Base - to restate depreciation reserve to correct for calcusoftware	lation of	depreciation in	accounting system			\$	850,051
f) Labor and Inflation. Mid-test year to mid rate year. Labor is	2.5% per	vear increase.	Assuming the same for inflation	on			
Transmission	\$	16,893	1.06587			\$	1,113
Distribution	\$	615,063	1.06587			\$	40,513
Street Lighting	\$	7,201	1.06587			\$	474
Customer Service	\$	139,014	1.06587			\$	9,157
A&G	\$	347,973	1.06587			\$	22,920
Uncollectible Revenues - Electric		9429.13	1.06587			\$	621
g) Increase in Health Insurance at 8.1% per year.	\$	286,577	1.18823			\$	53,942
h) Pension - To reflect latest invoice from Comptrollers Office							
FY 2016	\$	81,604					
FY 2017	\$	90,351				\$	8,747
1.1 2017	Φ	90,331				Ψ	0,747
i) Property taxes - 2% per year	\$	65,942	1.05249			\$	3,461
j) Adjustment to reflect commercial tax rate on in-Village plant v	which PSO	C allows as PIL	OT payment level			\$	10,970
k) Amortization - Reflect Amortization from Case 14-E-0140 of amount	\$46, 803	and Rate Case	Expense - to reflect 3 year amo	ortization	of contract	\$	51,303

1) Updated rate base calculation based on rate year working capital allowance - See Exhibit 9

Exhibit 4 Page 1 of 2

Bath Electric Gas and Water Systems Electric Department Historic Balance Sheets - Assets As of May 31,

	2014	2015	2016
ASSETS			
FIXED ASSETS			
Operating Property - Electric (101)	14,309,430	15,077,217	15,481,964
Construction Work in Progress (110)	1,450,244	696,659	672,967
Total Fixed Assets	15,759,674	15,773,876	16,154,931
INVESTMENTS			
Loans to Operating Municipality (113)			
Depreciation Funds (116)	173,256	173,476	173,828
Miscellaneous Special Funds (117)	<u>71,068</u>	<u>71,211</u>	<u>71,355</u>
Total Investments	244,324	244,687	245,183
CURRENT ASSETS			
Cash (121)	1,601,309	1,213,530	960,388
Working Funds (122)	300	300	300
Materials and Supplies (123)	319,585	320,865	247,368
Receivables from Operating Municipality (124)	67,366	65,952	69,033
Accounts Receivable (125)	366,680	381,455	240,383
Notes Receivable (126)			
Interest and Dividends Receivable (127)	130	174	145
Prepayments (128)	68,932	53,601	48,924
Special Deposits	<u>479</u>	<u>479</u>	<u>479</u>
Total Current Assets	2,424,781	2,036,356	1,567,020
DEFERRED DEBITS			
Suspense to be Amortized (143)	0	206,712	159,910
Clearing Accounts (144)			
Total Deferred Debits	0	206,712	159,910
Total Assets and Other Debits	18,428,779	18,261,631	18,127,043

Exhibit 4 Page 2 of 2

Bath Electric Gas and Water Systems Electric Department Historic Balance Sheets - Liabilities As of May 31,

	2014	2015	2016
LIABILITIES AND RETAINED EARNINGS			
LONG-TERM DEBT			
Bonds (231)	0	0	5,805,000
Miscellaneous Long Term Debt (233)	6,559,967	6,151,426	140,939
Total Long-Term Debt	6,559,967	6,151,426	5,945,939
CURRENT AND ACCRUED LIABILITIES			
Accounts Payable (242)	283,426	256,487	216,031
Notes Payable (243)	440,000	0	0
Customer Deposits (244)	205,211	243,090	236,676
Taxes Accrued (248)	15,534	15,010	12,477
Interest Accrued (249)	12,725	5,695	9,103
Miscellaneous Current Liabilities (252)	154,705	118,847	109,567
Total Current Liabilities	1,111,601	639,129	583,854
RESERVES			
Depreciation Reserves (261)	6,040,487	6,152,457	6,764,154
Amortization Reserves (262)			
Contributions for Extensions (263)			
Insurance Reserve (264)	27,451	27,451	27,451
Injuries and Damages Reserve (265)			
Reserve for Uncollectible Accounts (266)	15,296	14,515	10,147
Miscellaneous Reserves (267)	11,700	11,700	11,700
Total Operating Reserves	6,094,934	6,206,123	6,813,453
DEFERRED CREDITS			
Unamortized Premium on Debt (271)			
Miscellaneous Unadjusted Credits (272)	0	22,541	0
Total Deferred Credits	0	22,541	0
SURPLUS			
Contributions - Operating Municipality (280)	(2,646,039)	(2,691,812)	(2,788,286)
Surplus (281)	7,308,316	7,934,224	7,572,084
Total Surplus	4,662,277	5,242,412	4,783,798
Total Liabilities and Other Credits	18,428,779	18,261,631	18,127,043

Source Data: PSC Annual Report Pages 104 and 105

Bath Electric Gas and Water Systems

Electric Department Historic Income Statements For the Years Ended May 31,

	FY 2014		FY 2015	FY 2016
Revenues				
Non-Fuel Revenues	\$ 1,882,093	\$:	2,084,687	\$ 1,965,636
Purchased Power Revenues	\$ 3,155,611	\$:	3,005,115	\$ 2,252,378
Total Operating Revenues	\$ 5,037,704	\$!	5,089,802	\$ 4,218,015
Operating Expenses				
Purchased Power	\$ 3,240,717	\$:	2,618,976	\$ 2,161,685
Transmission	\$ 6,947	\$	13,604	\$ 16,893
Distribution	\$ 517,881	\$	480,522	\$ 615,063
Street Lighting	\$ 5,757	\$	7,709	\$ 7,201
Sales Expense		\$	(2,341)	
Customer Service	\$ 146,348	\$	155,429	\$ 139,014
A&G	\$ 780,987	\$	659,673	\$ 716,154
Depreciation	\$ 403,472	\$	578,426	\$ 623,679
Total Operating Expenses	\$ 5,102,109	\$ 4	4,511,998	\$ 4,279,689
Taxes - Electric	\$ 64,045	\$	65,353	\$ 65,942
Uncollectible Revenues - Electric	\$ 14,309	\$	16,161	\$ 9,429
Interests and Amortizations	\$ -	\$	-	\$ -
Total Operating and Maintenance Expenses	\$ 5,180,463	\$ 4	4,593,512	\$ 4,355,060
Net Income	\$ (142,759)	\$	496,290	\$ (137,046)

Source: PSC Annual Report Pages 106, 301 and 307

Exhibit 6

Bath Electric Gas and Water Systems Electric Department Revenues by Rate Class and kWh Sales Fiscal Years Ending May 31,

	Operating Revenues	2014	2015	2016
Acct. No.	Account Title			
601	Residential Sales	\$2,853,308	\$2,896,482	\$2,270,591
602	Commercial Sales	476,170	436,997	392,851
603	Industrial Sales	914,674	952,151	832,413
604	Public Street Lighting - Operating Mun.	58,128	57,012	63,390
605	Public Street Lighting - Other	2,537	2,584	2,815
606	Other Sales to Operating Municipality	103,659	111,215	88,313
607	Other Sales to Other Public Authorities	936	970	941
608	Sales to Other Distributors	524,961	550,288	478,758
609	Sales to Railroads and Street Railroads	0	0	0
610	Security Lighting	53,613	55,846	54,071
	Total	\$4.987.986	<u>\$5.063.545</u>	<u>\$4.184.144</u>
	kWh Sales			
601	Residential Sales	47,648,111	46,503,398	41,633,113
602	Commercial Sales	6,635,566	5,896,474	5,795,090
603	Industrial Sales	18,604,739	18,421,280	17,731,860
604	Public Street Lighting - Operating Mun.	777,754	777,171	824,430
605	Public Street Lighting - Other	10,516	10,415	11,281
606	Other Sales to Operating Municipality	2,065,728	2,152,300	1,888,843
607	Other Sales to Other Public Authorities	10,940	10,940	10,920
608	Sales to Other Distributors	9,519,111	9,571,266	8,922,730
609	Sales to Railroads and Street Railroads	-	-	-
610	Security Lighting	413,595	410,993	401,263
	Total	<u>85,686,060</u>	83,754,237	77,219,530

Source Data: page 300 of PSC Annual Report

Exhibit 7

Bath Electric Gas and Water Systems Electric Department Number of Customers

	2014	2015	2016
Month	Number of Customers	Number of Customers	Number of Customers
June	4,886	4,893	4,842
July	4,881	4,816	4,814
August	4,886	4,877	4,823
Sept	4,876	4,838	4,846
Oct	4,882	4,872	4,813
Nov	4,845	4,815	4,819
Dec	4,862	4,829	4,851
Jan	4,812	4,850	4,837
Feb	4,831	4,793	4,835
March	4,877	4,842	4,822
April	4,833	4,879	4,877
May	4,871	4,811	4,832
TOTALS	58,342	58,115	58,011
Account 601	45,731	45,660	45,577
Account 602	5,759	5,564	5,637
Account 603	279	301	300
Account 604	12	12	12
Account 605	12	12	13
Account 606	312	312	312
Account 607	4	4	4
Account 608	1,056	1,139	1,128
Account 609			
Account 610	5,177	5,111	5,028
TOTALS	58,342	58,115	58,011

Source Data: PSC Annual Reports, poage 301

Received: 07/19/2017

Exhibit 8

Bath Electric Gas and Water Systems Electric Department

Capital Structure and Rate of Return

	<u>ProForma</u> <u>Amount</u>	<u>%</u>	Cost Rate	Rate of Return
Long-term debt	5,805,000	42.6%	3.08%	1.32%
Customer deposits	236,676	1.7%	0.05%	0.00%
Net surplus	7,572,084	55.6%	3.56%	1.98%
Total	13,613,760	100.0%		3.30%

Notes: Bath's long term debt is rated A+ by S&P. For surplus, a proxy rate was used which was the last A rated municipal utility to receive a rate increase from the PSC, Boonville, Case 16-E-0565 - Order issued and effective 2/11/2017

Exhibit 9

Bath Electric Gas and Water Systems Electric Department Rate Base

	<u>2014</u>	<u>2015</u>	2016	Rate Year
Gross Plant				
Operating Property	\$14,309,430	\$15,077,217	\$15,481,964	\$16,154,931
Construction Work in Progress	1,450,244	696,659	672,967	0
Total Gross Plant	15,759,674	15,773,876	16,154,931	16,154,931
Depreciation Reserve	6,040,487	6,152,457	6,764,154	5,914,103
Amortization Reserves	0	0	0	0
Contributions for Extensions	0	0	0	0
Total Net Plant	9,719,187	9,621,419	9,390,777	10,240,828
Materials & Supplies	319,585	320,865	247,368	247,368
Prepayments	68,932	53,601	48,924	48,924
Rate Case Expense	0	0	0	9,000
Working Capital				
Total Operating Expenses	5,180,463	4,593,512	4,355,060	4,557,377
Purchased Power	3,240,717	2,618,976	2,161,685	2,184,080
Depreciation	403,472	578,426	623,679	433,650
PILOT/Other Taxes	64,045	65,353	65,942	69,403
Uncollectibles	14,309	16,161	9,429	10,050
Net Expenses	1,457,920	1,314,596	1,560,267	1,929,596
Working Capital Required @ 1/8	182,240	164,325	195,033	241,200
Working Capital Required @ 1/12	270,060	218,248	180,140	182,007
Year End Total Rate Base	\$10,560,004	\$10,378,458	\$10,062,243	\$10,969,326

Source Data: PSC Annual Reports, Pages 104 and 105

Exhibit 10

Bath Electric Gas and Water Systems Electric Department Factor of Adjustment

	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
KWH Sold KWH Purchased	86,857,261 91,936,189	79,901,049 84,536,377	82,543,390 87,499,885	85,686,060 92,283,310	83,754,237 88,266,673	77,219,530 80,915,433
Factor of Adjustment	1.0585	1.0580	1.0600	1.0770	1.0539	1.0479
Six Year Average						1.0594

Source Data: PSC Annual Reports, page 400

Exhibit 11

Bath Electric, Gas & Water Systems Electric Department Comparison of Present and Proposed Rates

	YR 1 YR 2				YR 3					
	Present	Proposed	Increase	Increase	Proposed	Increase	Increase	Proposed	<u>Increase</u>	<u>Increase</u>
	Rate	Rate	<u>Amount</u>	Percent	Rate	<u>Amount</u>	Percent	Rate	<u>Amount</u>	Percent
Service Classification No. 1 - Residential										
May - October								=		
Customer Service Charge	3.36	4.57	1.21	36%	5.78	1.21	26%	7.00	1.22	21%
Energy Charge - 1,000 kWh or less, per kW	0.0360	0.0419	0.0059	16.5%	0.0408	(0.0011)	-2.7%	0.0396	(0.0012)	-2.8%
Over 1,000 kWh - 2,400, per kWh	0.0360			40 =0/		(0.0044)	. =		(0.0010)	
Over 2,400 kWh	0.0360	0.0419	0.0059	16.5%	0.0408	(0.0011)		0.0396	(0.0012)	-2.8%
Minimum Charge per month, per meter	3.36	4.57	1.21	36%	5.78	1.21	26%	7.00	1.21	21%
November - April	0.00	4.57	4.04	200/	F 70	4.04	000/	7.00	4.00	040/
Customer Service Charge	3.36	4.57	1.21	36%	5.78	1.21	26%	7.00	1.22	21%
Energy Charge - 1,000 kWh or less, per kW	0.0360	0.0419	0.0059	16.5%	0.0408	(0.0011)		0.0396	(0.0012)	-2.8%
Over 1,000 kWh - 2,400, per kWh Over 2,400 kWh	0.0557	0.0649	0.0092	16.5%	0.0631	(0.0018)		0.0613	(0.0018)	
	0.0618	0.0720	0.0102	16.5%	0.0700	(0.0020)		0.0680	(0.0020)	-2.8%
Minimum Charge per month, per meter	3.36	4.57	1.21	36%	5.78	1.21	26%	7.00	1.21	21%
Service Classification No. 2 - Small Commercial (Under 20 KW May - October	demand)									
Customer Service Charge	4.22	5.15	0.93	22%	6.08	0.93	18%	7.00	0.92	15%
Energy Charge, per kWh, first 2,400 kWh	0.0499	0.0588	0.0089	17.8%	0.0580	(0.0008)		0.0572	(0.0008)	
Energy Charge, per kWh, over 2,400 kWh	0.0499	0.0588	0.0089	17.8%	0.0580	(0.0008)		0.0572	(0.0008)	-1.4%
Minimum Charge per month, per meter	4.22	5.15	0.93	122%	6.08	0.93	18%	7.00	0.92	
November - April	1.22	0.10	0.00	12270	0.00	0.00	1070	7.00	0.02	1070
Customer Service Charge	4.22	5.15	0.93	22%	6.08	0.93	18%	7.00	0.92	15%
Energy Charge, per kWh, first 2,400 kWh	0.0609	0.0717	0.0108	17.8%	0.0708	(0.0010)		0.0698	(0.0010)	
Energy Charge, per kWh, over 2,400 kWh	0.0625	0.0736	0.0111	17.8%	0.0726	(0.0010)		0.0716	(0.0010)	
Minimum Charge per month, per meter	4.22	5.15	0.93	22%	6.08	0.93	18%	7.00	0.92	
Service Classification No. 3 - Commercial (20 KW to 75 KW der	nand)									
Energy Charge, per kWh	0.0241	0.0285	0.0044	18.1%						
Demand Charge, first 20 KW or less	112.25	132.53	20.2831	18.1%						
Over 20 KW, per KW	5.61	6.62	1.0137	18.1%						
•	0.01	0.02		10.170						
Service Classification No. 4 - Industrial (Over 75 KW demand)										
Energy Charge, per kWh	0.0241	0.0285	0.0044	18.1%						
Demand Charge, first 75 KW or less	374.20	441.82	67.6162	18.1%						
Over 75 KW, per KW	4.99	5.89	0.9017	18.1%						
Service Classification No. 5 - Outdoor Lighting										
175W MV - 150W HPS, per month, per light	9.16	10.82	1.6554	18.1%						
250W HPS	11.59	13.68	2.0940	18.1%						
400W MV/HPS	17.41	20.56	3.1460	18.1%						

Minimum charge per month, per light shall be calculated under the above rate

LATE PAYMENT CHARGE - Rate including 1.5% late payment charge due and payable 23 days after LAST DAY TO PAY NET date on bill.

ALL RATES SUBJECT TO PURCHASED POWER ADJUSTMENT.
Purchased Power Adjustment also subject to late payment charge.

Exhibit 12 Page 1 of 4

Bath Electric, Gas & Water Systems Electric Department Comparison of Monthly Bills

Service Classification No. 1 - Residential

kWh	Pi	resent Rate	Pro	posed Rate	9	Increase	%	% Increase			
Used		November	May to	November	May to	November	May to	November			
	October	to April	October	to April	October	to April	October	to April			
0	3.36	3.36	4.57	4.57	1.21	1.21	36.01%	36.01%			
2	3.45	3.45	4.67	4.67	1.22	1.22	35.40%	35.40%			
10	3.82	3.82	5.09	5.09	1.27	1.27	33.25%	33.25%			
25	4.51	4.51	5.86	5.86	1.36	1.36	30.15%	30.15%			
50	5.65	5.65	7.16	7.16	1.51	1.51	26.66%	26.66%			
75	6.80	6.80	8.45	8.45	1.65	1.65	24.35%	24.35%			
100	7.94	7.94	9.74	9.74	1.80	1.80	22.71%	22.71%			
150	9.45	10.23	12.33	12.33	2.88	2.10	30.47%	20.52%			
200	12.52	12.52	14.92	14.92	2.40	2.40	19.14%	19.14%			
250	14.81	14.81	17.50	17.50	2.69	2.69	18.18%	18.18%			
500	26.26	26.26	30.44	30.44	4.18	4.18	15.90%	15.90%			
750	37.71	37.71	43.37	43.37	5.66	5.66	15.00%	15.00%			
900	44.58	44.58	51.13	51.13	6.55	6.55	14.69%	14.69%			
1,000	49.16	49.16	56.30	56.30	7.14	7.14	14.53%	14.53%			
1,500		81.91	82.17	93.64	10.11	11.73	14.03%	14.32%			
2,000	94.96	114.66	108.03	130.98	13.07	16.32	13.77%	14.23%			
5,000	232.36	327.02	263.23	373.48	30.87	46.46	13.28%	14.21%			
PPAC:	0.0098										

Bath Electric, Gas & Water Systems Electric Department Comparison of Monthly Bills

Service Classification No. 2 - Non-demand Metered

kWh	Prese	nt Rate	Propos	sed Rate	\$ Inc	rease	% Increase			
Used	May to	November	May to	November	May to	November	May to	November		
	October	to April	October	to April	October	to April	October	to April		
0	4.22	4.22	5.15	5.15	0.93	0.93	22.04%	22.04%		
2	4.34	3.78	5.29	5.31	0.95	1.53	21.85%	40.52%		
10	4.81	4.34	5.83	5.96	1.02	1.62	21.17%	37.27%		
25	5.70	5.40	6.85	7.18	1.15	1.78	20.21%	33.01%		
50	7.18	7.15	8.55	9.20	1.37	2.05	19.13%	28.69%		
75	8.66	8.91	10.26	11.23	1.60	2.32	18.42%	26.07%		
100	10.14	10.66	11.96	13.25	1.82	2.59	17.92%	24.32%		
150	13.10	14.17	15.36	17.30	2.26	3.13	17.26%	22.12%		
200	16.06	17.68	18.76	21.36	2.70	3.68	16.84%	20.79%		
250	19.02	21.19	22.17	25.41	3.15	4.22	16.55%	19.90%		
500	33.82	38.74	39.19	45.66	5.37	6.92	15.86%	17.87%		
750	48.62	56.29	56.20	65.92	7.58	9.63	15.60%	17.11%		
1,000	63.42	65.44	73.22	86.18	9.80	20.74	15.45%	31.69%		
1,500	93.02	108.94	107.26	126.69	14.24	17.75	15.30%	16.29%		
2,000	122.62	144.04	141.29	167.20	18.67	23.16	15.23%	16.08%		
5,000	300.22	358.80	345.50	415.18	45.28	56.38	15.08%	15.71%		

PPAC: 0.0093

Bath Electric, Gas & Water Systems Electric Department Comparison of Monthly Bills

Service Classification No. 3 - General Service - Demand Metered

<u>KW</u>	<u>kWh</u>	Present Rate	Proposed Rate	<u>\$</u> Increase	<u>%</u> Increase
20	1,000	145.75	170.39	24.64	16.90%
	1,500	162.50	189.32	26.82	16.50%
	2,000	179.25	208.24	28.99	16.17%
50	2,000	347.55	406.95	59.40	17.09%
	3,000	381.05	444.81	63.76	16.73%
	4,000	414.55	482.66	68.11	16.43%
75	5,000	588.30	686.11	97.81	16.63%
	7,500	672.05	780.75	108.70	16.17%
	10,000	755.80	875.38	119.58	15.82%

PPAC: 0.0094

Bath Electric, Gas & Water Systems Electric Department Comparison of Monthly Bills

Service Classification No. 4 - Large General Service

<u>KW</u>	<u>kWh</u>	Present Rate	Proposed Rate	<u>\$</u> <u>Increase</u>	<u>%</u> Increase
75	1,000	407.70	479.67	71.97	17.65%
	1,500	424.45	498.60	74.15	17.47%
	2,000	441.20	517.53	76.33	17.30%
100	2,000	565.95	664.82	98.87	17.47%
	3,000	599.45	702.67	103.22	17.22%
	4,000	632.95	740.53	107.58	17.00%
150	5,000	915.95	1.078.86	162.91	17.79%
	7,500	999.70	1,173.49	173.79	17.38%
	10,000	1,083.45	1,268.13	184.68	17.05%

PPAC: 0.0093

Source: Page 300 of PSC Annual Report

Exhibit 13 Page1 of 1

Bath Electric, Gas & Water Systems Electric Department Calculation of Base Rate Increase Per Service Class

			Sales and Re	venues by Service Cla	ssification				Lat	Other Reve te Charges	nues	Weather No	rmalization A	justment	Cus	tomer Growth										% Base
										and Other	PPAC									RY Base	PPAC	Other		R	Revenue	Rate
			# of Bills S	Sales (kWh)	Base Revenues	PPAC Revenues	Total F	Revenues		Revenues R	econciliation	Base	PPAC	Total	Base	PPAC	Total	Grand RY Total		Revenues	Revenues	Revenues	Total	li li	ncrease	Increase
((1) (2)	(3)	(4)	(5)	(6)	(7)		(8)		(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)		(18)	(19)	(20)	(21)		(22)	(23)
00.4	Desidential	Account CO1	45.660	44 622 442	64 040 272	400.764		2 250 422		44.450 6	44.070	£ 40,000 (07.054	00.574	(45.070) 6	(4.4.400) . 6	(00.005)	6 0 000 470		4 000 040		6 44 450	0.000.470		00.740	40.40/
SC 1	Residential	Account 601	45,660	41,633,113	\$1,849,372	409,761	3	2,259,133	\$	11,458 \$	11,878	\$ 46,220 \$	37,354	83,574	(15,379) \$	(14,486) \$	(29,865)	\$ 2,336,178	\$	1,880,213	\$ 444,507	\$ 11,458 \$	2,336,178		39,746	18.1%
SC 2	Commercial	Account 602	5,564	5,795,090	339,130	53,721	\$	392,851		\$	1,557	\$ 11,315 \$	1,572	12,887	(8,575) \$	(4,568) \$	(13,143)	\$ 394,153	\$	341,870	\$ 52,282	\$ - 5	394,153	\$ (61,774	18.1%
SC 4	Industrial	Account 603	301	17,731,860	667,243	165,169	\$	832,412		\$	4,788							\$ 837,200	\$	667,243	\$ 169,957	\$ - 5	837,200	\$ 1:	20,568	18.1%
Contrac	t Street Lighting	Account 604	12	824,430	55,447	7,943	\$	63,390		\$	230							\$ 63,621	\$	55,447	\$ 8,173	\$ - 5	63,621	\$	10,019	18.1%
		Account 605	12	11,281	2,705	110	\$	2,815		\$	3							\$ 2,819	\$	2,705	\$ 114	\$ - 5	2,819	\$	489	18.1%
		Account 606	312	1,888,843	70,541	17,772	\$	88,313		\$	515							\$ 88,829	\$	70,541	\$ 18,287	\$ - 5	88,829	\$	12,746	18.1%
Var	Municipality	Account 607	4	10,920	803	138	\$	941		\$	4							\$ 945	\$	803 3	\$ 142	\$ - 5	945	\$	145	18.1%
Var	Contract Sales	Account 608	1,139	8,922,730	395,140	83,618	\$	478,758		\$	2,424							\$ 481,181	\$	395,140	\$ 86,042	\$ - 5	481,181	\$	71,400	18.1%
		Account 609					\$	-	\$	33,870 \$	-							\$ 33,870			\$ -	\$ 33,870 \$	33,870			
SC 5	Area Lighting	Account 610	5,111	401,263	50,285.20	3,786	\$	54,071		\$	110							\$ 54,181	\$	50,285	\$ 3,896	\$ - 5	54,181	\$	9,086	18.1%
			59 115	77 210 520	3 430 667	7/2 010	•	4 172 696	e	45 328 S	21 500	¢ 57.535 9	38.036	06/61	(23.054) \$	(10.054) \$	(43 008)	£ 4 202 076	e	3 464 348	\$ 793 400	¢ 45.338 9	4 202 076	₹ 6:	25 974	18 1%

Sources: Pages 300-303 of PSC Annual Report and Customer Weather Normalization and Customer Growth Work paper and PPAC Reconciliation Work paper

Exhibit 14 Page 1 of 1

Bath Electric Gas and Water Systems Electric Department Comparison of Customer Cost Per Bill and Minimum Charge

Line No.	Cost Item		Cost (\$)	Cu	stomer Related Cost (\$)	Source
1	Customer Accountng			\$	138,858	Account 761
2	Benefits & Pension	\$	377,348			Account 785
3	Total Labor	\$	663,635			Company Workpapers see "Labor Worksheet.xlsx"
4	Beneift %		57%			Line 2/ line 3
5	Cust. Acct. Labor	\$	86,538			Company Workpapers see "Labor Worksheet.xlsx"
6	Cust Acct Benefits			\$	49,206	Line 4 x line 5
7	A&G Labor	\$	86,538			Company Workpapers see "Labor Worksheet.xlsx"
8	Total Labor	\$	530,070			Company Workpapers see "Labor Worksheet.xlsx"
9	Non A&G Labor	\$	443,532			Line 8 - line 7
10	Cust Acct as % of Non A&G Lal		20%			Line 5 / line 9
11	Allocated A&G Labor to Cust Ac	ct		\$	16,885	Line 10 x line 7
12	All Other A&G					
13	Total A&G	\$	716,154			Accounts 920-933
14	Less Benefts	\$	377,348			Line 2
15	Less A&G Laobr	\$	86,538			Line 7
16	Less Depr on general plant	\$	-			Not applicable
17	Net A&G	\$	252,268			Line 13 - lines 14-16
18	Allocated to Cust Acct			\$	49,220	Line 10 x line 17
19	Total Expenses			\$	254,169	Sum of Lines 1, 6, 11, 18
	Rate Base					
20	Poles	\$	565,948	\$	141,487	Account 358 @ 25%
21	Conductor	\$	226,040	\$	56,510	Account 363 @ 25%
22	Services	\$	75,666	\$	75,666	Account 366
23	Transformers	\$	2,416,721	\$	2,416,721	Account 365
24	Meters	\$	92,204	\$	92,204	Accounts 368
25	Total Net Plant		,	\$	2,584,591	Line 20 thru line 24
26	Working Capital			\$	31,771	1/8 x line 19
27	Total Rate Base			\$	2,616,362	Line 25 + line 26
28	Weight Cost of Capital		3.30%	\$	86,241	Exhibit 8
						Gross Plant at above weightngs at book
29	Depreciation expense related to	Cus	stomer portion of rate	t \$	142,603	depreciation rates
30	Total Customer Cost			\$	483,013	Line 19 + line 28 + line 29
31	# of Bills per year				58,115	Exhibit 6
32	Customer Cost Per Bill			\$	8.31	Line 30 / line 31

Exhibit 15 Page 1 of 1

Bath Electric Gas and Water Systems Electric Department Calculation of Escalation Factors

Year	Month	# of Months		Estimated Escalation Rate	Escalation Factor
201		5 6 7			
		8 9 0 1	Property Tax	2.00%	1.00165158 1.052487897
	1		Labor and Inflation	2.50%	1.00205984 1.065867743
201	6	2 3 1 4 2 5 3 6	Health Insurance	8.1%	1.00557883 1.188227915
		4 7			
		5 8 6 9			
		7 10 8 11			
		9 12			
		0 13			
	1				
		2 15			
201		1 16			
		2 17			
		3 18 4 19			
		5 20			
		6 21			
		7 22			
		8 23			
		9 24			
		0 25			
	1				
		2 27			
201		1 28			
		2 29			
		3 30			
		4 31			