

Rate Case 2019
Financial Feasibility - 55/30 year Horizon
Parameters and Results

Line No.	<u>Col. 1</u> Description	<u>Col. 2</u>	<u>Col. 3</u> Year 0	<u>Col. 4</u> Year 1	<u>Col. 5</u> Year 2	<u>Col. 6</u> Year 3	<u>Col. 7</u> Year 4	<u>Col. 8</u> Year 5-55
FEASIBILITY PARAMETERS								
1.	Discount Rate	5.38%						
2.	CCA Rate	6.00%						
3.	Tax Rate	26.60%						
4.	Municipal Tax rate	0.75%						
5.	Capital Tax Rate	0.00%						
6.	Customer Revenue Horizon							
7.	Residential (Years)	55						
8.	Commercial (Years)	30						
9.	Customer Additions							
10.	Residential			749	0	0	0	0
11.	Commercial			57	0	0	0	0
12.	Total Annual Volumes							
13.	Residential (m ³)			454,723	909,446	909,446	909,446	909,446
14.	Commercial (m ³)			890,624	1,781,248	1,781,248	1,781,248	1,781,248
15.	Capital Costs							
16.	Mains (Dollars)		2,070,184	0	0	0	0	0
17.	Services (Dollars)		2,064,940	0	0	0	0	0
18.	Meters (Dollars)		86,306	0	0	0	0	0
19.	Stations (Dollars)		134,204	0	0	0	0	0
20.	Commercial program (Dollars)		0	0	0	0	0	0
21.	Annual Revenues (Dollars)			500,455	1,000,909	1,000,909	1,000,909	1,000,909
22.	Annual O&M (Dollars)			44,007	88,015	88,015	88,015	88,015
FEASIBILITY RESULTS								
23.	Net Present Value (Dollars)	247,483						
24.	Profitability Index	1.06						
25.	IRR	5.81%						
26.	Levelized Rate Impact (55 years)	-0.0296%						
27.	Cross-Over Year	Year 14						

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	<u>Col. 1</u>	<u>Col. 2</u>	<u>Col. 3</u>	<u>Col. 4</u>	<u>Col. 5</u>	<u>Col. 6</u>	<u>Col. 7</u>	<u>Col. 8</u>	<u>Col. 9</u>	<u>Col. 10</u>	<u>Col. 11</u>	<u>Col. 12</u>
Line No.	Description	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<u>INCREMENTAL CAPITAL INVESTMENT</u>												
1.	Investment In Mains	2,070,184	-	-	-	-	-	-	-	-	-	-
2.	Investment in Services	2,064,940	-	-	-	-	-	-	-	-	-	-
3.	Investment in Stations	134,204	-	-	-	-	-	-	-	-	-	-
4.	Investment in Meters	86,306	-	-	-	-	-	-	-	-	-	-
5.	Investment in Commercial program	-	-	-	-	-	-	-	-	-	-	-
6.	Contribution In Aid Of Construction	-	-	-	-	-	-	-	-	-	-	-
7.	Net Investment Capital	4,355,634	-	-	-	-	-	-	-	-	-	-
8.	Working Capital	-	(4,954)	-	-	-	-	-	-	-	-	-
9.	Total Investments	4,355,634	(4,954)	-	-	-	-	-	-	-	-	-
10.	PV Of Net Investment At Project Outset	(4,355,634)	4,826	-	-	-	-	-	-	-	-	-
11.	ACCUMULATED PV OF TOTAL INVESTMENT	(4,355,634)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)
<u>CCA TAX SHIELD</u>												
12.	CCA Tax Shield		34,758	67,430	63,385	59,582	56,007	52,646	49,487	46,518	43,727	41,104
13.	PV Of CCA Tax Shield At Project Outset		33,859	62,330	55,597	49,592	44,235	39,457	35,195	31,393	28,002	24,977
14.	ACCUMULATED PV OF CCA TAX SHIELD		33,859	96,189	151,786	201,377	245,612	285,069	320,263	351,656	379,658	404,635
<u>INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES)</u>												
15.	Gas Distribution Revenue		500,455	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909
16.	Gas Costs		(279,161)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)
17.	O&M		(44,007)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)
18.	Net Operating Cash (Before Taxes)		177,287	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573
19.	PV of Net Operating Cash (Before Taxes) At Project Outset		172,699	327,754	311,011	295,123	280,047	265,741	252,166	239,284	227,060	215,461
20.	ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES)		172,699	500,453	811,463	1,106,586	1,386,633	1,652,374	1,904,539	2,143,823	2,370,883	2,586,344
<u>TAXES</u>												
21.	Income Tax (Before Interest Tax Shield)		(38,445)	(85,714)	(85,990)	(86,266)	(86,541)	(86,817)	(87,093)	(87,369)	(87,645)	(87,921)
22.	Municipal Tax		(32,757)	(32,341)	(31,304)	(30,267)	(29,230)	(28,192)	(27,155)	(26,118)	(25,080)	(24,043)
23.	Total Taxes		(71,202)	(118,055)	(117,294)	(116,532)	(115,771)	(115,010)	(114,248)	(113,487)	(112,726)	(111,964)
24.	PV of Total Taxes At Project Outset		(69,359)	(109,125)	(102,883)	(96,994)	(91,437)	(86,196)	(81,251)	(76,587)	(72,187)	(68,036)
25.	ACCUMULATED PV OF TOTAL TAXES		(69,359)	(178,485)	(281,368)	(378,362)	(469,799)	(555,995)	(637,246)	(713,833)	(786,019)	(854,056)
<u>ACCUMULATED NPV AND PI</u>												
26.	Net Present Value	(4,355,634)	(4,213,610)	(3,932,652)	(3,668,927)	(3,421,206)	(3,188,362)	(2,969,360)	(2,763,251)	(2,569,161)	(2,386,286)	(2,213,884)
27.	Profitability Index		0.031	0.096	0.157	0.214	0.267	0.318	0.365	0.409	0.452	0.491

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	<u>Col. 1</u>	<u>Col. 13</u>	<u>Col. 14</u>	<u>Col. 15</u>	<u>Col. 16</u>	<u>Col. 17</u>	<u>Col. 18</u>	<u>Col. 19</u>	<u>Col. 20</u>	<u>Col. 21</u>	<u>Col. 22</u>	<u>Col. 23</u>
Line No.	Description	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21
<u>INCREMENTAL CAPITAL INVESTMENT</u>												
1.	Investment In Mains	-	-	-	-	-	-	-	-	-	-	-
2.	Investment in Services	-	-	-	-	-	-	-	-	-	-	-
3.	Investment in Stations	-	-	-	-	-	-	-	-	-	-	-
4.	Investment in Meters	-	-	-	-	-	-	-	-	-	-	-
5.	Investment in Commercial program	-	-	-	-	-	-	-	-	-	-	-
6.	Contribution In Aid Of Construction	-	-	-	-	-	-	-	-	-	-	-
7.	Net Investment Capital	-	-	-	-	-	-	-	-	-	-	-
8.	Working Capital	-	-	-	-	-	-	-	-	-	-	-
9.	Total Investments	-	-	-	-	-	-	-	-	-	-	-
10.	PV Of Net Investment At Project Outset	-	-	-	-	-	-	-	-	-	-	-
11.	ACCUMULATED PV OF TOTAL INVESTMENT	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)
<u>CCA TAX SHIELD</u>												
12.	CCA Tax Shield	38,637	36,319	34,140	32,092	30,166	28,356	26,655	25,055	23,552	22,139	20,811
13.	PV Of CCA Tax Shield At Project Outset	22,279	19,873	17,726	15,811	14,103	12,580	11,221	10,009	8,928	7,963	7,103
14.	ACCUMULATED PV OF CCA TAX SHIELD	426,914	446,787	464,513	480,324	494,427	507,007	518,228	528,237	537,164	545,128	552,231
<u>INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES)</u>												
15.	Gas Distribution Revenue	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909
16.	Gas Costs	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)
17.	O&M	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)
18.	Net Operating Cash (Before Taxes)	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573
19.	PV of Net Operating Cash (Before Taxes) At Project Outset	204,454	194,010	184,099	174,695	165,770	157,302	149,267	141,641	134,406	127,540	121,024
20.	ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES)	2,790,799	2,984,809	3,168,908	3,343,602	3,509,373	3,666,675	3,815,941	3,957,583	4,091,988	4,219,528	4,340,553
<u>TAXES</u>												
21.	Income Tax (Before Interest Tax Shield)	(88,197)	(88,473)	(88,749)	(89,025)	(89,301)	(89,576)	(89,852)	(90,128)	(90,404)	(90,680)	(90,956)
22.	Municipal Tax	(23,006)	(21,969)	(20,931)	(19,894)	(18,857)	(17,820)	(16,782)	(15,745)	(14,708)	(13,671)	(12,633)
23.	Total Taxes	(111,203)	(110,441)	(109,680)	(108,919)	(108,157)	(107,396)	(106,635)	(105,873)	(105,112)	(104,351)	(103,589)
24.	PV of Total Taxes At Project Outset	(64,122)	(60,430)	(56,947)	(53,663)	(50,566)	(47,645)	(44,891)	(42,293)	(39,844)	(37,535)	(35,358)
25.	ACCUMULATED PV OF TOTAL TAXES	(918,178)	(978,607)	(1,035,555)	(1,089,218)	(1,139,784)	(1,187,429)	(1,232,319)	(1,274,612)	(1,314,457)	(1,351,991)	(1,387,349)
<u>ACCUMULATED NPV AND PI</u>												
26.	Net Present Value	(2,051,273)	(1,897,820)	(1,752,942)	(1,616,100)	(1,486,792)	(1,364,555)	(1,248,958)	(1,139,601)	(1,036,112)	(938,143)	(845,373)
27.	Profitability Index	0.529	0.564	0.597	0.629	0.658	0.686	0.713	0.738	0.762	0.784	0.806

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Line No.	Col. 1 Description	Col. 24 Year 22	Col. 25 Year 23	Col. 26 Year 24	Col. 27 Year 25	Col. 28 Year 26	Col. 29 Year 27	Col. 30 Year 28	Col. 31 Year 29	Col. 32 Year 30	Col. 33 Year 31	Col. 34 Year 32
<u>INCREMENTAL CAPITAL INVESTMENT</u>												
1.	Investment In Mains	-	-	-	-	-	-	-	-	-	-	-
2.	Investment in Services	-	-	-	-	-	-	-	-	-	-	-
3.	Investment in Stations	-	-	-	-	-	-	-	-	-	-	-
4.	Investment in Meters	-	-	-	-	-	-	-	-	-	-	-
5.	Investment in Commercial program	-	-	-	-	-	-	-	-	-	-	-
6.	Contribution In Aid Of Construction	-	-	-	-	-	-	-	-	-	-	-
7.	Net Investment Capital	-	-	-	-	-	-	-	-	-	-	-
8.	Working Capital	-	-	-	-	-	-	-	-	-	4,189	-
9.	Total Investments	-	-	-	-	-	-	-	-	-	4,189	-
10.	PV Of Net Investment At Project Outset	-	-	-	-	-	-	-	-	-	(846)	-
11.	ACCUMULATED PV OF TOTAL INVESTMENT	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,350,808)	(4,351,654)	(4,351,654)
<u>CCA TAX SHIELD</u>												
12.	CCA Tax Shield	19,562	18,388	17,285	16,248	15,273	14,357	13,495	12,686	11,924	11,209	10,536
13.	PV Of CCA Tax Shield At Project Outset	6,336	5,651	5,041	4,496	4,011	3,578	3,191	2,846	2,539	2,265	2,020
14.	ACCUMULATED PV OF CCA TAX SHIELD	558,567	564,218	569,259	573,756	577,767	581,344	584,535	587,382	589,921	592,185	594,205
<u>INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES)</u>												
15.	Gas Distribution Revenue	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	470,656	470,656
16.	Gas Costs	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(558,321)	(191,282)	(191,282)
17.	O&M	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(88,015)	(72,662)	(72,662)
18.	Net Operating Cash (Before Taxes)	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573	354,573	206,712	206,712
19.	PV of Net Operating Cash (Before Taxes) At Project Outset	114,842	108,975	103,408	98,126	93,113	88,357	83,843	79,560	75,496	41,765	39,631
20.	ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES)	4,455,395	4,564,370	4,667,778	4,765,904	4,859,017	4,947,374	5,031,217	5,110,777	5,186,273	5,228,037	5,267,669
<u>TAXES</u>												
21.	Income Tax (Before Interest Tax Shield)	(91,232)	(91,508)	(91,673)	(91,769)	(91,865)	(91,960)	(92,056)	(92,152)	(92,248)	(53,232)	(53,328)
22.	Municipal Tax	(11,596)	(10,559)	(9,939)	(9,578)	(9,218)	(8,857)	(8,497)	(8,136)	(7,776)	(6,593)	(6,232)
23.	Total Taxes	(102,828)	(102,067)	(101,612)	(101,347)	(101,082)	(100,818)	(100,553)	(100,289)	(100,024)	(59,824)	(59,560)
24.	PV of Total Taxes At Project Outset	(33,305)	(31,369)	(29,634)	(28,047)	(26,545)	(25,123)	(23,777)	(22,503)	(21,297)	(12,087)	(11,419)
25.	ACCUMULATED PV OF TOTAL TAXES	(1,420,654)	(1,452,023)	(1,481,657)	(1,509,704)	(1,536,249)	(1,561,372)	(1,585,149)	(1,607,652)	(1,628,949)	(1,641,036)	(1,652,455)
<u>ACCUMULATED NPV AND PI</u>												
26.	Net Present Value	(757,500)	(674,243)	(595,428)	(520,852)	(450,273)	(383,462)	(320,205)	(260,302)	(203,564)	(172,468)	(142,236)
27.	Profitability Index	0.826	0.845	0.863	0.880	0.897	0.912	0.926	0.940	0.953	0.961	0.967

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	<u>Col. 1</u>	<u>Col. 35</u>	<u>Col. 36</u>	<u>Col. 37</u>	<u>Col. 38</u>	<u>Col. 39</u>	<u>Col. 40</u>	<u>Col. 41</u>	<u>Col. 42</u>	<u>Col. 43</u>	<u>Col. 44</u>	<u>Col. 45</u>
Line No.	Description	Year 33	Year 34	Year 35	Year 36	Year 37	Year 38	Year 39	Year 40	Year 41	Year 42	Year 43
<u>INCREMENTAL CAPITAL INVESTMENT</u>												
1.	Investment In Mains	-	-	-	-	-	-	-	-	-	-	-
2.	Investment in Services	-	-	-	-	-	-	-	-	-	-	-
3.	Investment in Stations	-	-	-	-	-	-	-	-	-	-	-
4.	Investment in Meters	-	-	-	-	-	-	-	-	-	-	-
5.	Investment in Commercial program	-	-	-	-	-	-	-	-	-	-	-
6.	Contribution In Aid Of Construction	-	-	-	-	-	-	-	-	-	-	-
7.	Net Investment Capital	-	-	-	-	-	-	-	-	-	-	-
8.	Working Capital	-	-	-	-	-	-	-	-	-	-	-
9.	Total Investments	-	-	-	-	-	-	-	-	-	-	-
10.	PV Of Net Investment At Project Outset	-	-	-	-	-	-	-	-	-	-	-
11.	ACCUMULATED PV OF TOTAL INVESTMENT	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)
<u>CCA TAX SHIELD</u>												
12.	CCA Tax Shield	9,904	9,310	8,751	8,226	7,733	7,269	6,833	6,423	6,037	5,675	5,335
13.	PV Of CCA Tax Shield At Project Outset	1,802	1,607	1,434	1,279	1,141	1,017	908	809	722	644	574
14.	ACCUMULATED PV OF CCA TAX SHIELD	596,007	597,614	599,048	600,327	601,467	602,485	603,392	604,202	604,924	605,568	606,142
<u>INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES)</u>												
15.	Gas Distribution Revenue	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656
16.	Gas Costs	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)
17.	O&M	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)
18.	Net Operating Cash (Before Taxes)	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712
19.	PV of Net Operating Cash (Before Taxes) At Project Outset	37,607	35,686	33,863	32,133	30,491	28,934	27,456	26,053	24,722	23,459	22,261
20.	ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES)	5,305,275	5,340,961	5,374,823	5,406,956	5,437,448	5,466,381	5,493,837	5,519,890	5,544,612	5,568,071	5,590,332
<u>TAXES</u>												
21.	Income Tax (Before Interest Tax Shield)	(53,424)	(53,520)	(53,615)	(53,711)	(53,807)	(53,903)	(53,994)	(54,083)	(54,172)	(54,261)	(54,350)
22.	Municipal Tax	(5,872)	(5,511)	(5,151)	(4,790)	(4,430)	(4,069)	(3,727)	(3,392)	(3,058)	(2,724)	(2,390)
23.	Total Taxes	(59,295)	(59,031)	(58,766)	(58,501)	(58,237)	(57,972)	(57,721)	(57,476)	(57,230)	(56,985)	(56,740)
24.	PV of Total Taxes At Project Outset	(10,787)	(10,191)	(9,627)	(9,094)	(8,590)	(8,114)	(7,667)	(7,244)	(6,845)	(6,467)	(6,110)
25.	ACCUMULATED PV OF TOTAL TAXES	(1,663,243)	(1,673,433)	(1,683,060)	(1,692,154)	(1,700,744)	(1,708,859)	(1,716,525)	(1,723,769)	(1,730,614)	(1,737,081)	(1,743,191)
<u>ACCUMULATED NPV AND PI</u>												
26.	Net Present Value	(113,614)	(86,512)	(60,843)	(36,525)	(13,484)	8,353	29,050	48,668	67,268	84,904	101,629
27.	Profitability Index	0.974	0.980	0.986	0.992	0.997	1.002	1.007	1.011	1.015	1.020	1.023

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	<u>Col. 1</u>	<u>Col. 46</u>	<u>Col. 47</u>	<u>Col. 48</u>	<u>Col. 49</u>	<u>Col. 50</u>	<u>Col. 51</u>	<u>Col. 52</u>	<u>Col. 53</u>	<u>Col. 54</u>	<u>Col. 55</u>	<u>Col. 56</u>	<u>Col. 57</u>
Line No.	Description	Year 44	Year 45	Year 46	Year 47	Year 48	Year 49	Year 50	Year 51	Year 52	Year 53	Year 54	Year 55
<u>INCREMENTAL CAPITAL INVESTMENT</u>													
1.	Investment In Mains	-	-	-	-	-	-	-	-	-	-	-	-
2.	Investment in Services	-	-	-	-	-	-	-	-	-	-	-	-
3.	Investment in Stations	-	-	-	-	-	-	-	-	-	-	-	-
4.	Investment in Meters	-	-	-	-	-	-	-	-	-	-	-	-
5.	Investment in Commercial program	-	-	-	-	-	-	-	-	-	-	-	-
6.	Contribution In Aid Of Construction	-	-	-	-	-	-	-	-	-	-	-	-
7.	Net Investment Capital	-	-	-	-	-	-	-	-	-	-	-	-
8.	Working Capital	-	-	-	-	-	-	-	-	-	-	-	-
9.	Total Investments	-	-	-	-	-	-	-	-	-	-	-	-
10.	PV Of Net Investment At Project Outset	-	-	-	-	-	-	-	-	-	-	-	-
11.	ACCUMULATED PV OF TOTAL INVESTMENT	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)	(4,351,654)
<u>CCA TAX SHIELD</u>													
12.	CCA Tax Shield	5,014	4,714	4,431	4,165	3,915	3,680	3,459	3,252	3,057	2,873	2,701	23,503
13.	PV Of CCA Tax Shield At Project Outset	512	457	408	364	324	289	258	230	205	183	163	1,349
14.	ACCUMULATED PV OF CCA TAX SHIELD	606,655	607,112	607,519	607,883	608,208	608,497	608,755	608,985	609,190	609,374	609,537	610,886
<u>INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES)</u>													
15.	Gas Distribution Revenue	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656
16.	Gas Costs	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)	(191,282)
17.	O&M	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)	(72,662)
18.	Net Operating Cash (Before Taxes)	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712	206,712
19.	PV of Net Operating Cash (Before Taxes) At Project Outset	21,124	20,045	19,021	18,049	17,127	16,252	15,422	14,634	13,886	13,177	12,504	11,865
20.	ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES)	5,611,456	5,631,500	5,650,521	5,668,570	5,685,697	5,701,949	5,717,371	5,732,005	5,745,891	5,759,068	5,771,572	5,783,437
<u>TAXES</u>													
21.	Income Tax (Before Interest Tax Shield)	(54,439)	(54,528)	(54,617)	(54,705)	(54,794)	(54,867)	(54,870)	(54,874)	(54,874)	(54,874)	(54,874)	(54,874)
22.	Municipal Tax	(2,056)	(1,721)	(1,387)	(1,053)	(719)	(446)	(433)	(420)	(420)	(420)	(420)	(420)
23.	Total Taxes	(56,494)	(56,249)	(56,004)	(55,758)	(55,513)	(55,313)	(55,303)	(55,294)	(55,294)	(55,294)	(55,294)	(55,294)
24.	PV of Total Taxes At Project Outset	(5,773)	(5,454)	(5,153)	(4,869)	(4,599)	(4,349)	(4,126)	(3,914)	(3,715)	(3,525)	(3,345)	(3,174)
25.	ACCUMULATED PV OF TOTAL TAXES	(1,748,964)	(1,754,418)	(1,759,572)	(1,764,440)	(1,769,040)	(1,773,388)	(1,777,514)	(1,781,429)	(1,785,143)	(1,788,668)	(1,792,013)	(1,795,187)
<u>ACCUMULATED NPV AND PI</u>													
26.	Net Present Value	117,492	132,540	146,815	160,359	173,211	185,403	196,957	207,907	218,284	228,120	237,442	247,483
27.	Profitability Index	1.027	1.030	1.034	1.037	1.040	1.043	1.045	1.048	1.050	1.052	1.055	1.057

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Dollars	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
	1	2	3	4	5	6	7	8	9	10	
REVENUE											
A. Effective Project Revenue		500,455	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909
B. Year "0" Revenue (2018 Rate Case)	53,836,543										
C. Total Revenue (year "0" + projected revenue)	53,836,543	54,336,997	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	
REVENUE REQUIREMENT											
D. Effective Project Revenue Requirement		562,116	1,084,056	1,078,387	1,072,388	1,066,077	1,059,474	1,052,597	1,045,462	1,038,083	1,030,477
E. Year "0" Revenue Requirement	53,836,543										
F. Total Revenue Requirement (year "0" + project rev.req.)	53,836,543	54,398,658	54,920,599	54,914,930	54,908,930	54,902,620	54,896,017	54,889,140	54,882,004	54,874,626	54,867,019
(D - A) DEFICIENCY		61,661	83,147	77,478	71,478	65,168	58,565	51,688	44,552	37,174	29,568
(D - A)/ C % Rate Impact		0.113%	0.15%	0.14%	0.13%	0.119%	0.11%	0.09%	0.08%	0.07%	0.05%
LEVELIZED RATE IMPACT CALCULATION											
L. Deficiency (D -A)		61,661	83,147	77,478	71,478	65,168	58,565	51,688	44,552	37,174	29,568
M. \$ Levelized Deficiency (55 yrs.)	Disc. Rate of	(16,199)									
N. Levelized Revenue	6.015%	54,734,322									
O. % Levelized Rate Impact		-0.0296%	(16,082)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)

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Dollars	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21
	11	12	13	14	15	16	17	18	19	20	21
REVENUE											
A. Effective Project Revenue	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909
B. Year "0" Revenue (2018 Rate Case)											
C. Total Revenue (year "0" + projected revenue)	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452
REVENUE REQUIREMENT											
D. Effective Project Revenue Requirement	1,022,656	1,014,633	1,006,421	998,031	989,474	980,759	971,896	962,894	953,761	944,505	935,134
E. Year "0" Revenue Requirement											
F. Total Revenue Requirement (year "0" + project rev.req.)	54,859,198	54,851,176	54,842,964	54,834,574	54,826,016	54,817,301	54,808,438	54,799,436	54,790,303	54,781,048	54,771,677
(D - A) DEFICIENCY	21,747	13,724	5,512	(2,878)	(11,436)	(20,151)	(29,014)	(38,016)	(47,148)	(56,404)	(65,775)
(D - A)/ C % Rate Impact	0.04%	0.03%	0.01%	-0.01%	-0.021%	-0.037%	-0.05%	-0.07%	-0.09%	-0.10%	-0.12%
LEVELIZED RATE IMPACT CALCULATION											
L. Deficiency (D -A)	21,747	13,724	5,512	(2,878)	(11,436)	(20,151)	(29,014)	(38,016)	(47,148)	(56,404)	(65,775)
M. \$ Levelized Deficiency (55 yrs.)											
N. Levelized Revenue											
O. % Levelized Rate Impact	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)

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Financial Feasibility - 55 year Horizon
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Dollars	Year 22 22	Year 23 23	Year 24 24	Year 25 25	Year 26 26	Year 27 27	Year 28 28	Year 29 29	Year 30 30	Year 31 31	Year 32 32	Year 33 33	
REVENUE													
A. Effective Project Revenue	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	1,000,909	470,656	470,656	470,656
B. Year "0" Revenue (2018 Rate Case)													
C. Total Revenue (year "0" + projected revenue)	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,837,452	54,307,199	54,307,199	54,307,199
REVENUE REQUIREMENT													
D. Effective Project Revenue Requirement	925,654	916,073	833,035	782,172	779,614	776,977	774,265	771,482	768,634	382,661	379,845	376,821	
E. Year "0" Revenue Requirement													
F. Total Revenue Requirement (year "0" + project rev.req.)	54,762,197	54,752,615	54,669,578	54,618,714	54,616,157	54,613,520	54,610,808	54,608,025	54,605,176	54,219,204	54,216,388	54,213,364	
(D - A) DEFICIENCY	(75,255)	(84,837)	(167,874)	(218,737)	(221,295)	(223,932)	(226,644)	(229,427)	(232,275)	(87,995)	(90,811)	(93,835)	
(D - A) / C % Rate Impact	-0.14%	-0.15%	-0.31%	-0.40%	-0.40%	-0.41%	-0.41%	-0.42%	-0.42%	-0.16%	-0.17%	-0.17%	
LEVELIZED RATE IMPACT CALCULATION													
L. Deficiency (D -A)	(75,255)	(84,837)	(167,874)	(218,737)	(221,295)	(223,932)	(226,644)	(229,427)	(232,275)	(87,995)	(90,811)	(93,835)	
M. \$ Levelized Deficiency (55 yrs.)													
N. Levelized Revenue													
O. % Levelized Rate Impact	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,230)	(16,073)	(16,073)	(16,073)

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Rate Impact Analysis

Dollars	Year 34	Year 35	Year 36	Year 37	Year 38	Year 39	Year 40	Year 41	Year 42	Year 43	Year 44
	34	35	36	37	38	39	40	41	42	43	44
REVENUE											
A. Effective Project Revenue	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656
B. Year "0" Revenue (2018 Rate Case)											
C. Total Revenue (year "0" + projected revenue)	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199
REVENUE REQUIREMENT											
D. Effective Project Revenue Requirement	373,745	370,620	367,450	364,237	360,983	354,525	349,941	346,864	343,755	340,616	337,449
E. Year "0" Revenue Requirement											
F. Total Revenue Requirement (year "0" + project rev.req.)	54,210,287	54,207,163	54,203,992	54,200,779	54,197,526	54,191,067	54,186,484	54,183,406	54,180,297	54,177,158	54,173,992
(D - A) DEFICIENCY	(96,911)	(100,036)	(103,206)	(106,420)	(109,673)	(116,131)	(120,715)	(123,793)	(126,902)	(130,040)	(133,207)
(D - A)/ C % Rate Impact	-0.18%	-0.18%	-0.19%	-0.20%	-0.20%	-0.21%	-0.22%	-0.23%	-0.23%	-0.24%	-0.25%
LEVELIZED RATE IMPACT CALCULATION											
L. Deficiency (D -A)	(96,911)	(100,036)	(103,206)	(106,420)	(109,673)	(116,131)	(120,715)	(123,793)	(126,902)	(130,040)	(133,207)
M. \$ Levelized Deficiency (55 yrs.)											
N. Levelized Revenue											
O. % Levelized Rate Impact	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)

**Rate Case 2019
Financial Feasibility - 55 year Horizon
Rate Impact Analysis**

Dollars	Year 45 45	Year 46 46	Year 47 47	Year 48 48	Year 49 49	Year 50 50	Year 51 51	Year 52 52	Year 53 53	Year 54 54	Year 55 55
REVENUE											
A. Effective Project Revenue	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656	470,656
B. Year "0" Revenue (2018 Rate Case)											
C. Total Revenue (year "0" + projected revenue)	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199	54,307,199
REVENUE REQUIREMENT											
D. Effective Project Revenue Requirement	334,257	331,040	327,799	324,537	310,475	262,124	262,269	260,155	260,393	260,628	260,849
E. Year "0" Revenue Requirement											
F. Total Revenue Requirement (year "0" + project rev.req.)	54,170,799	54,167,582	54,164,342	54,161,080	54,147,018	54,098,667	54,098,812	54,096,698	54,096,936	54,097,171	54,097,391
(D - A) DEFICIENCY	(136,399)	(139,617)	(142,857)	(146,119)	(160,181)	(208,532)	(208,387)	(210,501)	(210,263)	(210,028)	(209,807)
(D - A)/ C % Rate Impact	-0.25%	-0.26%	-0.26%	-0.27%	-0.29%	-0.38%	-0.38%	-0.39%	-0.39%	-0.39%	-0.39%
LEVELIZED RATE IMPACT CALCULATION											
L. Deficiency (D -A)	(136,399)	(139,617)	(142,857)	(146,119)	(160,181)	(208,532)	(208,387)	(210,501)	(210,263)	(210,028)	(209,807)
M. \$ Levelized Deficiency (55 yrs.)											
N. Levelized Revenue											
O. % Levelized Rate Impact	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)	(16,073)

Rate Case 2019 55 Year Rate Impact

