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UPDATED CALCULATION OF REVENUE DEFICIENCY OR SUFFICIENCY

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3 1. INTRODUCTION

This Schedule provides a summary of the revenue requirement being requested by Hydro Ottawa for 2021-2025 in order to continue delivering electricity safely and reliably. The utility's total Service Revenue Requirement is offset by revenues obtained by sources other than distribution rates (i.e. other revenue). The calculation of the revenue deficiency/sufficiency does not include the recovery of deferral and variance accounts, as outlined in UPDATED Exhibit 9-3-1: Disposition of Deferral and Variance Accounts, or Low Voltage Charges as outlined in Exhibit 8-8-1: Low Voltage Service Rates. As directed in the *Chapter 2 Filing Requirements for Electricity Distribution Rate Applications*, as updated on July 12, 2018 and July 15, 2019, costs and revenues related to the cost of power are kept separate from the determination of the distribution revenue sufficiency/deficiency.

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15 2. CALCULATION OF DEFICIENCY OR SUFFICIENCY

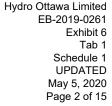
16 The revenue deficiency/sufficiency for 2021-2025 was calculated using the following inputs:

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- 2020 proposed approved rates; and
- 2021-2025 load forecast and forecast of customers and connections, as developed using the methodology described in UPDATED Exhibit 3-1-1: Load Forecast.

- The revenue deficiency/sufficiency was then determined by calculating what the revenue would
- have been with 2020 rates and the forecasted 2021-2025 load and customer numbers. As a
- result, revenue deficiency in the tables of this Schedule and Revenue Requirement Workforms produce a cumulative revenue requirement rather than a year-over-year revenue requirement.
- 26 Hydro Ottawa compiled the analysis in this matter, as the 2020 rates give a stable base upon
- 27 which to compare each year.





1 2.1. REVENUE DEFICIENCY/SUFFICIENCY 2016-2020

2 Table 1 outlines the revenue deficiency/sufficiency for 2016-2020 using the following inputs:

4 • 2015 approved rates;

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- 2016-2020 approved load forecast and forecast of customers/connections; and
- 2016-2020 base revenue requirement, as per the Approved Settlement Agreement governing Hydro Ottawa's 2016-2020 rate term, including the mid-term adjustments.¹

Table 1 – Approved Revenue Deficiency/Sufficiency for 2016-2020 with Mid-Term Adjustments (\$'000s)

	2016	2017	2018	2019	2020
Return on Rate Base	\$47,805	\$50,185	\$52,999	\$54,062	\$56,211
Distribution Expenses (not including amortization)	\$83,106	\$84,693	\$86,311	\$87,648	\$89,007
Amortization	\$40,379	\$43,558	\$46,388	\$48,158	\$49,384
Payment in Lieu of Taxes	\$3,755	\$3,634	\$4,897	\$6,914	\$5,943
Service Revenue Requirement	\$175,045	\$182,070	\$190,594	\$196,782	\$200,544
Less Revenue Offsets Per Approved Settlement Agreement Adjustment per Pole Attachment Decision ²	\$11,697 \$(225)	\$11,563 \$(225)	\$11,719 \$(282)	\$11,799 \$(282)	\$11,895 \$(282)
Base Revenue Requirement	\$163,573	\$170,733	\$179,157	\$185,264	\$188,931
Transformer Ownership Credit	\$1,125	\$1,114	\$1,109	\$1,106	\$1,105
Revenue Requirement from Rates	\$164,698	\$171,847	\$180,266	\$186,371	\$190,036
Forecasted Load at 2015 Rates	\$159,360	\$158,986	\$159,421	\$159,977	\$160,464
Cumulative Revenue Deficiency (over 2015)	\$(5,338)	\$(12,861)	\$(20,845)	\$(26,394)	\$(29,572)
Yearly Revenue Deficiency over 2015	\$(5,338)	\$(7,523)	\$(7,984)	\$(5,549)	\$(3,179)

¹¹

¹² Ontario Energy Board, *Decision and Order*, EB-2015-0004 (December 22, 2015).

^{13 &}lt;sup>2</sup> Ontario Energy Board, *Decision and Rate Order on Pole Attachment Charge*, EB-2015-0004 (February 25, 2016).



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1 2.2. REVENUE DEFICIENCY/SUFFICIENCY 2021-2025

- 2 Table 2 as updated below shows 2021-2025 base revenue requirement calculations. More
- 3 details for each year can be found in the Revenue Requirement Workforms ("RRWF") attached
- 4 to this Schedule:

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- **UPDATED** Attachment 6-1-1(A): OEB Workform 2021 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(B): OEB Workform 2022 Revenue Requirement Workform
- UPDATEDAttachment 6-1-1(C): OEB Workform 2023 Revenue Requirement Workform
 - UPDATED Attachment 6-1-1(D): OEB Workform 2024 Revenue Requirement Workform
- UPDATED Attachment 6-1-1(E): OEB Workform 2025 Revenue Requirement Workform

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- 12 The references to Costs Allocated from Previous Study and Previously Approved Ratios on
- 13 Sheet 11 Cost Allocation in the RRWF Workforms refer to 2020 in each case. In addition, the
- 14 difference in Sheet 11 Cost Allocation between columns (7C) and (7D) is the difference between
- 15 allocated Base Revenue Requirement and achieved Base Revenue Requirement.

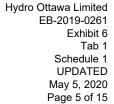


Table 2 – AS ORIGINALLY SUBMITTED – Revenue Deficiency/Sufficiency for 2021-2025

2 **(\$'000s)**

	2021	2022	2023	2024	2025
Return on Rate Base	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027
Payment in Lieu of Taxes	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689
Service Revenue Requirement	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053
Less Revenue Offsets	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483
Forecasted Load at 2020 Rates	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468
Cumulative Revenue Deficiency (over 2020)	\$(17,060)	\$(33,149)	\$(43,719)	\$(51,609)	\$(57,014)
Yearly Revenue Deficiency over 2020 ³	\$(17,060)	\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)

 $^{^{4}\,\,}$ Totals may not sum due to rounding.





1 Table 2 – UPDATED FOR 2019 ACTUALS – Revenue Deficiency/Sufficiency for 2021-2025 2 (\$'000s)

	2021	2022	2023	2024	2025
Return on Rate Base	\$68,158	\$74,253	\$78,242	\$80,677	\$85,470
Distribution Expenses (not including amortization)	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714
Amortization	\$52,333	\$56,699	\$59,015	\$60,585	\$63,900
Payment in Lieu of Taxes	\$2,224	\$3,881	\$8,604	\$11,533	\$7,590
Service Revenue Requirement	\$216,638	\$231,113	\$244,558	\$253,969	\$260,674
Less Revenue Offsets	\$11,013	\$10,971	\$11,667	\$12,151	\$12,457
Base Revenue Requirement	\$205,624	\$220,142	\$232,891	\$241,817	\$248,217
Transformer Ownership Credit	\$1,056	\$1,056	\$1,056	\$1,059	\$886
Revenue Requirement from Rates	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104
Forecasted Load at 2020 Rates	\$187,888	\$188,816	\$189,699	\$190,686	\$191,453
Cumulative Revenue Deficiency (over 2020)	\$(18,792)	\$(32,381)	\$(44,248)	\$(52,190)	\$(57,651)
Yearly Revenue Deficiency over 2020⁴	\$(18,792)	\$(13,589)	\$(11,867)	\$(7,942)	\$(5,461)

4 Table 3, as updated below, provides Revenue Deficiency that is calculated by multiplying the

⁵ previous Test Year's updated rates against the current Test Year's updated load forecast.

 $^{^{6}\,\,}$ 4 Totals may not sum due to rounding.



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1 Table 3 – AS ORIGINALLY SUBMITTED – Revenue Sufficiency/Deficiency using Prior Test

Year's Rates (\$'000s)

	2021	2022	2023	2024	2025
Total Revenue Requirement from Rates	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483
Forecast Load at Prior Year's Rates	\$187,905	\$205,984	\$223,009	\$234,675	\$243,259
Yearly Revenue Deficiency	\$(17,060)	\$(15,998)	\$(10,425)	\$(7,637)	\$(5,224)

Table 3 – UPDATED FOR 2019 ACTUALS – Revenue Sufficiency/Deficiency using Prior

5 Test Year's Rates (\$'000s)

	2021	2022	2023	2024	2025
Total Revenue Requirement from Rates	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104
Forecast Load at Prior Year's Rates	\$187,888	\$207,709	\$222,206	\$235,192	\$243,831
Yearly Revenue Deficiency	\$(18,792)	\$(13,489)	\$(11,741)	\$(7,684)	\$(5,273)

7 3. YEAR-OVER-YEAR REVENUE DEFICIENCY/SUFFICIENCY

- 8 Table 4<mark>, as updated</mark> below<mark>,</mark> provides the 2020-2021 year-over-year revenue
- 9 deficiency/sufficiency amounts and major cost drivers. The references to other Exhibits in this
- 10 Application indicate where additional details on year-over-year variance and cost drivers can be
- 11 found.

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1 Table 4 – AS ORIGINALLY SUBMITTED – 2020-2021 Revenue Deficiency Amounts & Cost **Drivers** (\$'000s)⁵

Driver of Deficiency	2020 OEB- Approved ⁶	2021 Test Year	+/-	Cost Drivers	Exhibit Reference
Return on Rate Base	\$56,211	\$67,489	\$11,278	\$173.8M increase in net fixed assetsPreviously excluded items added back to rate base	2-1-1
Distribution Expenses (not including amortization)	\$89,007	\$93,923	\$4,916	- Increases in compensation \$4,916 - Inflationary increases - Increase in distribution operations expenses	
Amortization	\$49,384	\$52,450	\$3,066	- Increase in sustainment additions	2-2-1 2-2-1(E)-(F) 2-4-3(E)
Payment in Lieu of Taxes	\$5,943	\$1,024	\$(4,919)	Higher CCA deduction caused by large amount of fixed asset additions	4-4-1 4-4-1(D)
Service Revenue Requirement	\$200,544	\$214,886	\$14,342		6-1-1(A)
Less Revenue Offsets ⁷	\$11,613	\$10,977	\$(636)	- Changes in other revenue rates	3-2-1
Base Revenue Requirement	\$188,931	\$203,909	\$14,978		6-1-1(A) 8-1-1
Transformer Ownership Credit	\$1,105	\$1,056	\$(49)	- Changes in load forecast	3-1-1
Revenue Requirement from Rates	\$190,036	\$204,965	\$14,929		6-1-1(A)
Forecasted Load at 2015/2020 Rates	\$160,464	\$187,905	\$27,441	 Changes in load forecast Increase in distribution rates Impact of revenue requirement item in Regulatory Accounts 	3-1-1 8-12-1 9-1-3
Cumulative Revenue Deficiency (over 2020)		\$(17,060)			

^{4 &}lt;sup>5</sup> Totals may not sum due to rounding. 5 ⁶ This figure includes mid-term adjustments.

⁶ The amount for 2020 includes adjustments as per the OEB's Pole Attachment Decision (see footnote 2 above).

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Table 4 - UPDATED FOR 2019 ACTUALS - 2020-2021 Revenue Deficiency Amounts & Cost Drivers (\$'000s)8

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Driver of Deficiency	2020 OEB- Approved ⁹	2021 Test Year	+/-	Cost Drivers	Exhibit Reference					
Return on Rate Base	\$56,211	\$68,158	\$11,947	 \$173.8M increase in net fixed assets (as originally submitted) \$171.9M increase in net fixed assets (accounting for 2019 actuals) Previously excluded items added back to rate base 	UPDATED 2-1-1					
Distribution Expenses (not including amortization)	\$89,007	\$93,923	\$4,916	 Increases in compensation Inflationary increases Increase in distribution operations expenses 	UPDATED 1-1-8 (Table 5) UPDATED 4-1-3 UPDATED 4-1-4					
Amortization	\$49,384	\$ 52,333	\$2,949	- Increase in sustainment additions	UPDATED 2-2-1 2-2-1(E)-(F) 2-4-3(E)					
Payment in Lieu of Taxes	\$5,943	\$ 2,224	\$(3,719)	 Higher CCA deduction caused by large amount of fixed asset additions (as originally submitted) Higher accounting depreciation add back caused by large amount of fixed asset additions (accounting for 2019 actuals) 	UPDATED 4-4-1 4-4-1(D)					
Service Revenue Requirement	\$200,544	\$ 216,638	\$ 16,094		UPDATED 6-1-1(A)					
Less Revenue Offsets ¹⁰	\$11,613	\$ 11,013	\$(600)	- Changes in other revenue rates	UPDATED 3-2-1					
Base Revenue Requirement	\$188,931	\$ 205,624	\$16,693		UPDATED 6-1-1(A) UPDATED 8-1-1					
Transformer Ownership Credit	\$1,105	\$1,056	\$(49)	- Changes in load forecast	UPDATED 3-1-1					
Revenue Requirement from Rates	\$190,036	\$206,680	\$16,644		UPDATED 6-1-1(A)					
Forecasted Load at 2015/2020 Rates	\$160,464	\$187,888	\$27,424	 Changes in load forecast Increase in distribution rates Impact of revenue requirement item in Regulatory Accounts 	UPDATED 3-1-1 UPDATED 8-12-1 UPDATED 9-1-3					
Cumulative Revenue Deficiency (over 2020)		\$(18,792)								

^{3 8} Totals may not sum due to rounding.
4 9 This figure includes mid-term adjustments.

⁵ The amount for 2020 includes adjustments as per the OEB's Pole Attachment Decision (see footnote 2 above).



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- 1 Table 5, as revised and updated below, provides the 2020-2025 year-over-year revenue
- 2 requirement amounts, the increase or decrease from prior test year, major cost drivers, and
- 3 references to Exhibits where further information on the drivers can be found.



Table 5 - AS ORIGINALLY SUBMITTED - 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)¹

		Bridge ²			Test			Drivers	Reference	
		2020	2021	2022	2023	2024	2025			
Return on	\$	\$66,298	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624	Annual increases in net fixed assets and		
Rate Base	+/-		\$1,191	\$6,099	\$3,853	\$2,419	\$4,763	working capital	2-1-1	
Distribution Expenses	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	Annual inflationary increases and increases in	1-1-8 (Table 6)	
(not including amortization)	+/-		\$1,933	\$2,357	\$2,417	\$2,477	\$2,539	compensation	4-1-3 4-1-4	
	\$	\$50,723	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027		2-2-1 2-2-1(E)-(J)	
Amortization	+/-		\$1,727	\$4,410	\$2,282	\$1,570	\$3,315	Annual increases in sustainment additions	2-4-3(E) 6-6-1 (Table 3)	
Payment in Lieu of	\$	\$2,362	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689	2021 & 2025 - Decrease due to increase in accelerated CCA, large amount of fixed assets placed into service	4-4-1	
Taxes	+/-		\$(1,338)	\$4,187	\$3,555	\$2,894	\$(3,970)	2022-2024 - Increases due to higher accounting depreciation and lower accelerated CCA	4-4-1(D)-(H)	
Service Revenue	\$	\$211,374	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053		6-1-1(A)-(F)	
Requirement	+/-		\$3,512	\$17,053	\$12,106	\$9,360	\$6,648		6-1-1(A)-(E)	

Totals may not sum due to rounding.
 Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

⁴ Accounts.



		Bridge ³ (Cont'd)		Т	est (Cont'd)		Drivers (Cont'd)	Reference
		2020	2021	2022	2023	2024	2025		(Cont'd)
Less Revenue Offsets	\$	\$10,268	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457	Inflationary increases and changes to other revenue rates	3-2-1
	+/-		\$709	\$36	\$654	\$484	\$305		
Base Revenue Requirement	\$	\$201,106	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596		6-1-1(A) 8-1-1
·	+/-		\$2,803	\$17,017	\$11,452	\$8,876	\$6,342		
Transformer Ownership Credit	\$	\$1,131	\$1,056	\$1,056	\$1,056	\$1,059	\$886	2025 - Transformer Ownership Credit	3-1-1 8-1-1
Cimerenii p Credii	+/-		\$(75)	\$(0)	\$0	\$2	\$(172)	discontinued	
Revenue Requirement from	\$	\$202,237	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483		
Rates	+/-		\$2,803	\$17,017	\$11,452	\$8,878	\$6,170		
Forecasted Load at 2015/2020 Rates	\$	\$160,464	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468	Impact of revenue requirement item in	3-1-1 9-1-3
	+/-		\$27,441	\$928	\$882	\$987	\$765	Regulatory Accounts	
Cumulative Revenue Deficiency (over 2020)	\$		(\$17,060)	(\$33,149)	(\$43,719)	(\$51,609)	(\$57,014)		
(0,01,2020)	+/-			\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)		

² Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

³ Accounts.



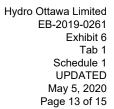
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Table 5 - AS REVISED - 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)4

		Bridge⁵			Test			Drivers	Reference
		2020	2021	2022	2023	2024	2025	Dilvers	Reference
Return on	\$	\$66,298	\$67,489	\$73,588	\$77,441	\$79,860	\$84,624	Allitual illuleases ill flet likeu assets allu	2-1-1
Rate Base	+/-		\$1,191	\$6,099	\$3,853	\$2,419	\$4,763	working capital	
Distribution Expenses	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	Annual inflationary increases and increases in	1-1-8 (Table 6)
(not including amortization)	+/-		\$1,933	\$2,357	\$2,417	\$2,477	\$2,539		4-1-3 4-1-4
	\$	\$50,723	\$52,450	\$56,860	\$59,142	\$60,711	\$64,027		2-2-1 2-2-1(E)-(J)
Amortization	+/-		\$1,727	\$4,410	\$2,282	\$1,570	\$3,315	Annual increases in sustainment additions	2-4-3(E) 6-6-1 (Table 3)
Payment in Lieu of	\$	\$2,362	\$1,024	\$5,211	\$8,766	\$11,660	\$7,689	2021 & 2025 - Decrease due to increase in accelerated CCA, large amount of fixed assets placed into service	4-4-1
Taxes	+/-		\$(1,338)	\$4,187	\$3,555	\$2,894	\$(3,970)	2022-2024 - Increases due to higher accounting depreciation and lower accelerated CCA	4-4-1 4-4-1(D)-(H)
Service Revenue	\$	\$211,374	\$214,886	\$231,939	\$244,045	\$253,405	\$260,053		6-1-1(A)-(E)
Requirement	+/-		\$3,512	\$17,053	\$12,106	\$9,360	\$6,648		
Less Revenue Offsets	\$	\$10,767	\$10,977	\$11,013	\$11,667	\$12,151	\$12,457	Inflationary increases and changes to other revenue rates	UPDATED 3-2-1
Onsets	+/-		\$210	\$36	\$654	\$484	\$305	Teveriue rates	3-2-1

Totals may not sum due to rounding.
 Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

⁴ Accounts.





		Bridge ⁶ (Cont'd)		T	est (Cont'd)			Drivers (Cont'd)	Reference
		2020	2021	2022	2023	2024	2025		(Cont'd)
Base Revenue Requirement	\$	\$200,607	\$203,909	\$220,926	\$232,378	\$241,254	\$247,596		UPDATED 6-1-1(A)
	+/-		\$3,302	\$17,017	\$11,452	\$8,876	\$6,342		8-1-1
Transformer	\$	\$1,131	\$1,056	\$1,056	\$1,056	\$1,059	\$886	2021-2025 - Changes in load forecast 2025 - Transformer Ownership Credit	3-1-1
Ownership Credit	+/-		\$(75)	\$(0)	\$0	\$2	\$(172)	discontinued	8-1-1
Revenue Requirement from	\$	\$201,738	\$204,965	\$221,982	\$233,434	\$242,312	\$248,483		
Rates	+/-		\$3,227	\$17,017	\$11,452	\$8,878	\$6,170		
Forecasted Load at 2015/2020 Rates	\$	\$160,464	\$187,905	\$188,833	\$189,716	\$190,703	\$191,468	Annual changes in load forecast Impact of revenue requirement item in	3-1-1 9-1-3
2015/2020 Rates	+/-		\$27,441	\$928	\$882	\$987	\$765	Regulatory Accounts	9-1-3
Cumulative Revenue Deficiency	\$		(\$17,060)	(\$33,149)	(\$43,719)	(\$51,609)	(\$57,014)		
(over 2020)	+/-			\$(16,089)	\$(10,570)	\$(7,891)	\$(5,405)		

² Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

³ Accounts.



Table 5 – UPDATED FOR 2019 ACTUALS – 2021-2025 Revenue Deficiency Amounts & Drivers (\$'000s)⁷

		Bridge ⁸			Test			Drivers	Reference
		2020	2021	2022	2023	2024	2025	Drivers	Reference
Return on	\$	\$67,036	\$68,158	\$74,253	\$78,242	\$80,677	\$85,470	Annual increases in net fixed assets and	UPDATED
Rate Base	+/-		\$1,122	\$6,095	\$3,989	\$2,435	\$4,793	working capital	2-1-1
Distribution Expenses	\$	\$91,990	\$93,923	\$96,280	\$98,697	\$101,174	\$103,714	nnual inflationary increases and increases in	UPDATED 1-1-8 (Table 6) UPDATED
(not including amortization)	+/-		\$1,933	\$2,357	\$2,417	\$2,477	\$2,477 \$2,539 compensation	4-1-3 <u>UPDATED</u> 4-1-4	
Amortization	\$	\$50,704	\$52,333	\$56,699	\$59,015	\$60,585	\$63,900	Annual increases in sustainment additions	UPDATED 2-2-1 2-2-1(E)-(J)
	+/-		\$1,629	\$4,366	\$2,317	\$1,570	\$3,315		2-4-3(E) 6-6-1 (Table 3)
Payment in Lieu	\$	\$1,394	\$2,224	\$3,881	\$8,604	\$11,533	due to increase in accelerated CCA, lar of fixed assets placed into service 2021 (updated for 2019 actuals) - Incre- higher income and depreciation add bar	2021 & 2025 (as originally submitted) - Decrease due to increase in accelerated CCA, large amount of fixed assets placed into service 2021 (updated for 2019 actuals) - Increase due to higher income and depreciation add back driven by large amount of fixed assets placed into	<u>UPDATED</u>
Payment in Lieu of Taxes +/-	+/-		\$830	\$1,656	\$4,723	\$2,929	\$(3,943)	service 2022-2024 - Increases due to higher accounting	4-4-1 4-4-1(D)-(H)

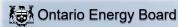
 ⁷ Totals may not sum due to rounding.
 ⁸ Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory

⁴ Accounts.



		Bridge ⁹ (Cont'd)		7	est (Cont'd)		Drivers (Cont'd)	Reference	
		2020	2021	2022	2023	2024	2025		(Cont'd)	
Service Revenue	\$	\$211,124	\$216,638	\$231,113	\$244,558	\$253,969	\$260,674		UPDATED	
Requirement	+/-		\$5,514	\$14,475	\$13,446	\$9,411	\$6,705		6-1-1(A)-(E)	
Less Revenue	\$	\$10,773	\$11,013	\$10,971	\$11,667	\$12,151	\$12,457	Inflationary increases and changes to other	UPDATED	
Offsets	+/-		\$240	\$(43)	\$696	\$484	\$305	revenue rates	3-2-1	
Base Revenue	\$	\$200,351	\$205,624	\$220,142	\$232,891	\$241,817	\$248,217		UPDATED 6-1-1(A)	
Requirement	+/-		\$5,273	\$14,517	\$12,749	\$8,926	\$6,400		UPDATED 8-1-1	
Transformer	\$	\$1,131	\$1,056	\$1,056	\$1,056	\$1,059	\$886	2021-2025 - Changes in load forecast 2025 - Transformer Ownership Credit	UPDATED 3-1-1	
Ownership Credit	+/-		\$(75)	\$(0)	\$0	\$2	\$(172)	·	UPDATED 8-1-1	
Revenue Requirement from	\$	\$201,482	\$206,680	\$221,197	\$233,947	\$242,876	\$249,104			
Rates	+/-		\$5,198	\$14,517	\$12,750	\$8,929	\$6,228			
Forecasted Load	\$	\$160,464	\$187,888	\$188,816	\$189,699	\$190,686	\$191,453	Annual changes in load forecast	UPDATED 3-1-1	
at 2015/2020 Rates	+/-		\$27,424	\$928	\$883	\$987	\$767	Impact of revenue requirement item in Regulatory Accounts added to rate base	UPDATED 9-1-3	
Cumulative Revenue	\$		\$(18,792)	\$(32,381)	\$(44,248)	\$(52,190)	\$(57,651)			
Deficiency (over 2020)	+/-			\$(13,589)	\$(11,867)	\$(7,942)	\$(5,461)			

 ⁹ Figures in this column include revenue requirement of New Facilities and Connection Cost Recovery Agreement Payments currently held in Regulatory
 Accounts.





Version 9.00

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address Regulatory Affairs@HydroOttawa.com

Test Year 2021

Bridge Year

Last Rebasing Year 2016

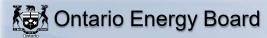
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 1 of 16

Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 2 of 16



Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev_Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate_Base 11. Cost Allocation

<u>5. Utility Income</u> <u>12. Residential Rate Design</u>

6. Taxes PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

- (1) Pale green cells represent inputs
- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.

Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 3 of 16

Data Input (1)

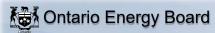
	_	Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments		Per Board Decision	
1	Rate Base										
•	Gross Fixed Assets (average) Accumulated Depreciation (average)	\$1,444,394,960 (\$309,700,143)	(5)	\$4,004,564 \$7,166,338		\$ 1,448,399,524 (\$302,533,805)				61,448,399,524 (\$302,533,805)	
	Allowance for Working Capital: Controllable Expenses Cost of Power	\$93,922,657		\$ - \$12,071,147		93,922,657 \$1,037,683,909				\$93,922,657	
	Working Capital Rate (%)	\$1,025,612,762 7.50%	(9)	\$12,071,147	•	7.50%	(9)		3	31,037,683,909	(9)
2	Utility Income										
	Operating Revenues:	********	(10)			*****					
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$186,849,349 \$203,908,920	(10)	(\$17,019) \$1,715,319		\$186,832,330 \$205,624,239					
	Specific Service Charges	\$5,118,168		\$0		\$5,118,168					
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000					
	Other Distribution Revenue	\$2,789,981		\$0		\$2,789,981					
	Other Income and Deductions	\$2,069,167		\$36,061		\$2,105,228					
	Total Revenue Offsets	\$10,977,316	(7)	\$36,061		\$11,013,377					
	Operating Expenses:										
	OM+A Expenses	\$90,790,555			5	90,790,555				\$90,790,555	
	Depreciation/Amortization	\$52,450,059		(\$117,336)	5	52,332,723				\$52,332,723	
	Property taxes	\$3,132,102			5	\$ 3,132,102				\$3,132,102	
	Other expenses										
3	Taxes/PILs										
	Taxable Income:										
		(\$40,125,534)	(3)	\$0		(\$40,125,534)					
	Adjustments required to arrive at taxable income Utility Income Taxes and Rates:										
	Income taxes (not grossed up)	\$752,736		\$881,952		\$1,634,688					
	Income taxes (grossed up)	\$1,024,131				\$2,224,065					
	Federal tax (%)	15.00%		\$0		15.00%					
	Provincial tax (%) Income Tax Credits	11.50% (\$85,000)		\$0 \$0		11.50% (\$85,000)					
		(\$65,000)		Φ0		(\$65,000)					
4	Capitalization/Cost of Capital Capital Structure:										
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%					
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)				(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%					
	Prefered Shares Capitalization Ratio (%)			*-							
	•	100.0%				100.0%					
	Cost of Capital										
	Long-term debt Cost Rate (%)	3.35%		\$0		3.35%					
	Short-term debt Cost Rate (%)	2.75%		\$0		2.75%					
	Common Equity Cost Rate (%)	8.88%		\$0		8.88%					
	Prefered Shares Cost Rate (%)										

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- 7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.
- The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.
- (10) Revenue at 2020 rates minus 2021 Transformer Ownership Allowance



Rate Base and Working Capital

Rate Base

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,444,394,960	\$4,004,564	\$1,448,399,524	\$ -	\$1,448,399,524
2	Accumulated Depreciation (average) (2)	(\$309,700,143)	\$7,166,338	(\$302,533,805)	\$ -	(\$302,533,805)
3	Net Fixed Assets (average) (2)	\$1,134,694,817	\$11,170,902	\$1,145,865,719	\$ -	\$1,145,865,719
4	Allowance for Working Capital (1)	\$83,965,156	\$905,336	\$84,870,492	(\$84,870,492)	\$ -
5	Total Rate Base	\$1,218,659,973	\$12,076,238	\$1,230,736,211	(\$84,870,492)	\$1,145,865,719

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$93,922,657	\$ -	\$93,922,657		\$ -	\$93,922,657
Cost of Power		\$1,025,612,762	\$12,071,147	\$1,037,683,909		\$ -	\$1,037,683,909
Working Capital Base		\$1,119,535,420	\$12,071,147	\$1,131,606,567		\$ -	\$1,131,606,567
Working Capital Rate %	(1)	7.50%	0.00%	7.50%		-7.50%	0.00%
Working Capital Allowance		\$83,965,156	\$905,336	\$84,870,492	(\$8-	4,870,492)	\$ -

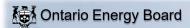
Notes

6 7

9

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

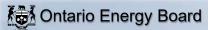
Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$203,908,920	\$1,715,319	\$205,624,239	\$ -	\$205,624,239
2		\$10,977,316	\$36,061	\$11,013,377	\$ -	\$11,013,377
3	Total Operating Revenues	\$214,886,236	\$1,751,380	\$216,637,616	\$ -	\$216,637,616
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$90,790,555 \$52,450,059 \$3,132,102 \$ - \$ -	\$- (\$117,336) \$- \$- \$-	\$90,790,555 \$52,332,723 \$3,132,102 \$-	\$ - \$ - \$ - \$ - \$ -	\$90,790,555 \$52,332,723 \$3,132,102 \$ -
9	Subtotal (lines 4 to 8)	\$146,372,716	(\$117,336)	\$146,255,380	\$ -	\$146,255,380
10	Deemed Interest Expense	\$24,202,587	\$239,834	\$24,442,421	(\$1,685,528)	\$22,756,893
11	Total Expenses (lines 9 to 10)	\$170,575,303	\$122,498	\$170,697,801	(\$1,685,528)	\$169,012,273
12	Utility income before income taxes	\$44,310,933	\$1,628,882	\$45,939,815	\$1,685,528	\$47,625,343
13	Income taxes (grossed-up)	\$1,024,131	\$1,199,935	\$2,224,065	<u> </u>	\$2,224,065
14	Utility net income	\$43,286,803	\$428,947	\$43,715,750	\$1,685,528	\$45,401,278
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$5,118,168 \$1,000,000 \$2,789,981 \$2,069,167 \$10,977,316	\$ - \$ - \$ - \$ 36,061	\$5,118,168 \$1,000,000 \$2,789,981 \$2,105,228 \$11,013,377	\$-	\$5,118,168 \$1,000,000 \$2,789,981 \$2,105,228 \$11,013,377
	-	<u> </u>		T		<u> </u>

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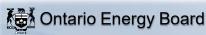


Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$43,286,802	\$43,715,750	\$40,701,150
2	Adjustments required to arrive at taxable utility income	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)
3	Taxable income	\$3,161,268	\$3,590,216	\$575,616
	Calculation of Utility income Taxes			
4	Income taxes	\$752,736	\$1,634,688	\$1,634,688
6	Total taxes	\$752,736	\$1,634,688	\$1,634,688
7	Gross-up of Income Taxes	\$271,395	\$589,377	\$589,377
8	Grossed-up Income Taxes	\$1,024,131	\$2,224,065	\$2,224,065
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$1,024,131	\$2,224,065	\$2,224,065
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

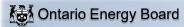


Tab 1
Schedule 1
Attachment A
UPDATED
May 5, 2020
Page 7 of 16

Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capital	ization Ratio	Cost Rate	Return
		Initial	Application		
	Debt	(%)	(\$)	(%)	(\$)
1 2 3	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$682,449,585 \$48,746,399 \$731,195,984	3.35% 2.75% 3.31%	\$22,862,061 \$1,340,526 \$24,202,587
J	Equity	00.0070	ψ101,130,304	3.3170	Ψ24,202,301
4 5	Common Equity Preferred Shares	40.00% 0.00%	\$487,463,989 \$ -	8.88% 0.00%	\$43,286,802 \$ -
6	Total Equity	40.00%	\$487,463,989	8.88%	\$43,286,802
7	Total	100.00%	\$1,218,659,973	5.54%	\$67,489,389
		Applica	ation Update		
	Debt	(%)	(\$)	(%)	(\$)
1 2	Long-term Debt Short-term Debt	56.00% 4.00%	\$689,212,278 \$49,229,448	3.35% 2.75%	\$23,088,611 \$1,353,810
3	Total Debt	60.00%	\$738,441,727	3.31%	\$24,442,421
4 5	Equity Common Equity Preferred Shares	40.00% 0.00%	\$492,294,485 \$ -	8.88% 0.00%	\$43,715,750 \$ -
6	Total Equity	40.00%	\$492,294,485	8.88%	\$43,715,750
7	Total	100.00%	\$1,230,736,211	5.54%	\$68,158,171
		Per Bo	ard Decision		
	Debt	(%)	(\$)	(%)	(\$)
8 9 10	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$641,684,803 \$45,834,629 \$687,519,431	3.35% 2.75% 3.31%	\$21,496,441 \$1,260,452 \$22,756,893
11 12 13	Equity Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$458,346,288 \$ - \$458,346,288	8.88% 0.00% 8.88%	\$40,701,150 \$ - \$40,701,150
14	Total	100.00%	\$1,145,865,719	5.54%	\$63,458,044
<u>Notes</u>					

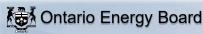


Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application	Update	Per Board D	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$186,849,349 \$10,977,316	\$21,701,279 \$182,207,641 \$10,977,316	\$186,832,330 \$11,013,377	\$22,425,639 \$183,198,601 \$11,013,377	\$186,832,330 \$11,013,377	\$16,030,907 \$189,593,333 \$11,013,377
4	Total Revenue	\$197,826,665	\$214,886,236	\$197,845,707	\$216,637,616	\$197,845,707	\$216,637,616
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$146,372,716 \$24,202,587 \$170,575,303	\$146,372,716 \$24,202,587 \$170,575,303	\$146,255,380 \$24,442,421 \$170,697,801	\$146,255,380 \$24,442,421 \$170,697,801	\$146,255,380 \$22,756,893 \$169,012,273	\$146,255,380 \$22,756,893 \$169,012,273
9	Utility Income Before Income Taxes	\$27,251,362	\$44,310,933	\$27,147,906	\$45,939,815	\$28,833,434	\$47,625,343
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)	(\$40,125,534)
11	Taxable Income	(\$12,874,172)	\$4,185,399	(\$12,977,628)	\$5,814,281	(\$11,292,100)	\$7,499,809
12 13	Income Tax Rate	26.50% \$ -	26.50% \$1,109,131	26.50% \$ -	26.50% \$1,540,785	26.50% \$ -	26.50% \$1,987,449
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$27,336,362	(\$85,000) \$43,286,803	(\$85,000) \$27,232,906	(\$85,000) \$43,715,750	(\$85,000) \$28,918,434	(\$85,000) \$45,401,278
16	Utility Rate Base	\$1,218,659,973	\$1,218,659,973	\$1,230,736,211	\$1,230,736,211	\$1,145,865,719	\$1,145,865,719
17	Deemed Equity Portion of Rate Base	\$487,463,989	\$487,463,989	\$492,294,485	\$492,294,485	\$458,346,288	\$458,346,288
18	Income/(Equity Portion of Rate Base)	5.61%	8.88%	5.53%	8.88%	6.31%	9.91%
19	Target Return - Equity on Rate Base	8.88%	8.88%	8.88%	8.88%	8.88%	8.88%
20	Deficiency/Sufficiency in Return on Equity	-3.27%	0.00%	-3.35%	0.00%	-2.57%	1.03%
21	Indicated Rate of Return	4.23%	5.54%	4.20%	5.54%	4.51%	5.95%
22	Requested Rate of Return on Rate Base	5.54%	5.54%	5.54%	5.54%	5.54%	5.54%
23	Deficiency/Sufficiency in Rate of Return	-1.31%	0.00%	-1.34%	0.00%	-1.03%	0.41%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$43,286,802 \$15,950,440 \$21,701,279 (1)	\$43,286,802 \$1	\$43,715,750 \$16,482,844 \$22,425,639 (1)	\$43,715,750 (\$0)	\$40,701,150 \$11,782,717 \$16,030,907 (1)	\$40,701,150 \$4,700,128

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Tab 1 Schedule 1 Attachment A **UPDATED** Page 9 of 16

Revenue Requirement Workform May 5, 2020 Page 9 of 16 (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application	Application Update			Per Board Decision	
1	OM&A Expenses	\$90,790,555		\$90,790,555		\$90,790,555	
2	Amortization/Depreciation	\$52,450,059		\$52,332,723		\$52,332,723	
3	Property Taxes	\$3,132,102		\$3,132,102		\$3,132,102	
5	Income Taxes (Grossed up)	\$1,024,131		\$2,224,065		\$2,224,065	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$24,202,587		\$24,442,421		\$22,756,893	
	Return on Deemed Equity	\$43,286,802	_	\$43,715,750		\$40,701,150	
8	Service Revenue Requirement						
	(before Revenues)	\$214,886,236	_	\$216,637,617		\$211,937,489	
9	Revenue Offsets	\$10,977,316	_	\$11,013,377		\$-	
10	Base Revenue Requirement	\$203,908,920	_	\$205,624,240		\$211,937,489	
	(excluding Tranformer Owership Allowance credit adjustment)						
11	Distribution revenue	\$203,908,920		\$205.624.239		\$205,624,239	
12	Other revenue	\$10,977,316		\$11,013,377		\$11,013,377	
		Ţ,o,o		+ · · · · · · · · · · · · · · · · · · ·		<u> </u>	
13	Total revenue	\$214,886,236	_	\$216,637,616		\$216,637,616	
14	Difference (Total Revenue Less Distribution Revenue Requirement	•	(1)	(0.0)	(1)	44 7 00 400	(1)
	before Revenues)	\$1	` =	(\$0)	(-,	\$4,700,128	` '

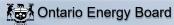
Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application	Application Update	$\Delta\%^{~(2)}$	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$214,886,236	\$216,637,617	\$0	\$211,937,489	(\$1)
Deficiency/(Sufficiency)	\$21,701,279	\$22,425,639	\$0	\$16,030,907	(\$1)
Base Revenue Requirement (to be	****	4005.004.040		2011 007 100	
recovered from Distribution Rates) Revenue Deficiency/(Sufficiency) Associated with Base Revenue	\$203,908,920	\$205,624,240	\$0	\$211,937,489	(\$1)
Requirement	\$17,059,571	\$18,791,909	\$0	\$ -	(\$1

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application



Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in Appendix 2-I should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in Appendix 2-IB and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

		_		
Customer Class		lni	tial Application	
Input the name of each customer class.	Customer / Connections		kWh	kW/kVA (1)
	Test Year average or mid-year		Annual	Annual
Residential	316,346		2,253,081,000	
GS < 50 kW	25,391		700,163,000	
GS > 50 to 1,499 kW	3,120		2,819,476,000	6,816,104
GS > 1,500 to 4,999 kW	68		682,977,000	1,518,349
Large Use	11		574,292,000	1,052,899
Street Lighting	62,806		22,107,000	61,588
Sentinel Lighting	55		47,000	132
Unmetered Scattered Load	3,321		13,602,000	
Standby Power	3			7,440
		_		

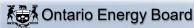
Application Update							
Customer / Connections	kWh	kW/kVA ⁽¹⁾					
Test Year average or mid-year	Annual	Annual					
316,346 25,391 3,120 68 11 62,806 55 3,321 3	2,252,937,000 699,871,000 2,817,707,000 682,919,000 574,292,000 22,107,000 47,000 13,602,000	6,815,129 1,517,165 1,052,901 61,590 132 7,440					

Per Board Decision										
Customer / Connections	kWh	kW/kVA ⁽¹⁾								
Test Year average or mid-year	Annual	Annual								

Total 7,065,745,000 9,456,512 7,063,482,000 9,454,357

9

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class ⁽³⁾ From Sheet 10. Load Forecast		s Allocated from vious Study ⁽¹⁾	%	-	Allocated Class enue Requirement (1) (7A)	%
1 Residential 2 GS < 50 kW 3 GS > 50 to 1,499 kW 4 GS > 1,500 to 4,999 kW 5 Large Use 6 Street Lighting 7 Sentinel Lighting 8 Unmetered Scattered Load 9 Standby Power 10 11 12 13 14 15 16 17 18 19 20	***	107,281,788 20,646,221 48,750,762 13,365,246 8,063,832 1,811,439 6,568 547,549 70,655	53.50% 10.30% 24.31% 6.66% 4.02% 0.90% 0.00% 0.27% 0.04%	***	119,486,480 21,637,911 53,847,846 11,354,589 8,754,647 982,528 9,866 550,487 13,261	55.16% 9.99% 24.86% 5.24% 4.04% 0.45% 0.00% 0.25% 0.01%
Total	\$	200,544,060	100.00%	\$	216,637,615	100.00%
			Service Revenue Requirement (from Sheet 9)	\$	216,637,616.62	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	LF X current proved rates X (1+d)	LF)	Proposed Rates	Miscellaneous Revenues
	(7B)	(7C)		(7D)	(7E)
Residential	\$ 105,495,064	\$ 116,105,934	\$	116,124,290	\$ 8,081,006
2 GS < 50 kW	\$ 23,383,424	\$ 25,735,368	\$	24,966,258	\$ 985,100
GS > 50 to 1,499 kW	\$ 40,375,423	\$ 44,436,450	\$	44,681,903	\$ 1,394,784
GS > 1,500 to 4,999 kW	\$ 9,786,044	\$ 10,770,340	\$	10,829,246	\$ 272,470
Large Use	\$ 6,161,456	\$ 6,781,186	\$	7,289,429	\$ 191,721
Street Lighting	\$ 1,076,408	\$ 1,184,675	\$	1,126,911	\$ 51,772
Sentinel Lighting	\$ 4,052	\$ 4,460	\$	5,002	\$ 881
Unmetered Scattered Load	\$ 532,015	\$ 585,526	\$	580,904	\$ 35,208
Standby Power	\$ 18,443	\$ 20,298	\$	20,298	\$ 434
)	ŕ	ŕ		ŕ	
1					
2					
3					
1					
5					
7					
3					
<u> </u>					
Total	\$ 186,832,330	\$ 205,624,238	\$	205,624,240	\$ 11,013,377

⁽⁴⁾ In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.

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⁽⁵⁾ Columns 7C and 7D - Column Total should equal the Base Revenue Requirement for each.

⁽⁶⁾ Column 7C - The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.

⁽⁷⁾ Column 7E - If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
1 Residential	104.29%	103.93%	103.95%	85 - 115
2 GS < 50 kW	118.23%	123.49%	119.93%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.11%	85.57%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.25%	97.77%	80 - 120
5 Large Use	85.36%	79.65%	85.45%	85 - 115
6 Street Lighting	80.00%	125.84%	119.96%	80 - 120
7 Sentinel Lighting	76.00%	54.14%	59.63%	80 - 120
B Unmetered Scattered Load	118.72%	112.76%	111.92%	80 - 120
Standby Power	21.03%	156.34%	156.34%	80 - 120
0				
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2				
3				
1				
5				
6				
7				
8				
9				
0				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

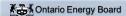
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	ed Revenue-to-Cost Ratio		Policy Range
	Test Year	Price Cap IR F	Period	
	2021	2022	2023	
1 Residential	103.95%	103.95%	103.95%	85 - 115
2 GS < 50 kW	119.93%	119.93%	119.93%	80 - 120
3 GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120
4 GS > 1,500 to 4,999 kW	97.77%	97.77%	97.77%	80 - 120
5 Large Use	85.45%	85.45%	85.45%	85 - 115
Street Lighting	119.96%	119.96%	119.96%	80 - 120
7 Sentinel Lighting	59.63%	59.63%	59.63%	80 - 120
Unmetered Scattered Load	111.92%	111.92%	111.92%	80 - 120
Standby Power	156.34%	156.34%	156.34%	80 - 120
ol ´				
1				
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⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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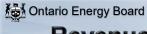
Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 15 of 16

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:			Application Update		Cla	ss Allocated Rever	ues					Dist	ribution Rates			Revenue Reconciliati	on
	Customer and Lo	oad Forecast				11. Cost Allocation esidential Rate Des		Percentage to	iable Splits ² be entered as a ween 0 and 1								
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance 1 (\$)	Monthly Ser	No. of decimals	Volu	metric Rate No. of decima	s MSC Revenues	Volumetric revenues	Revenues les Transformer Ownership Allowance
Residential GS + 50 kW GS + 100 to 4,99 kW GS + 100 to 4,99 kW Large Use Streat Lighting Unmellated Scattered Load Stantuty Power	KWh KWh KW KW KW KW KW KW KW KW	316,346 25,391 3,120 68 11 62,806 55 3,321 - - - - - - -	2,252,937,000 699,871,000 2,817,707,000 682,919,000 574,292,000 22,107,000 47,000 13,602,000	6,815,129 1,517,165 1,052,901 61,590 132 - 7,440 - - - - - - - -	\$ 116,124,290 \$ 24,996,259 \$ 44,681,593 \$ 10,829,246 \$ 7,289,429 \$ 1,126,911 \$ 5,502 \$ 590,904 \$ 20,298	\$ 116,124,290 \$ 6,279,014 \$ 7,488,017 \$ 3,422,248 \$ 2,010,534 \$ 715,988 \$ 2,581 \$ 223,183 \$ 5,750	\$ 18,687.24 \$ 37,193,886 \$ 7,406,999 \$ 5,278,895 \$ 410,922 \$ 2,421 \$ 357,721 \$ 14,547	100.00% 25.15% 10.78% 31.00% 27.289% 61.00% 38.42% 28.33%	0.00% 74.85% 83.24% 68.40% 72.42% 36.46% 61.58% 71.67%	\$ 343,146 \$ 396,994 \$ 315,695	\$90.55 \$20.6' \$200.00 \$4,193.2' \$15,221.3; \$0.92 \$3.9' \$5.6(\$159.7')	3 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$0.0267 \$5.5079 \$5.1438 \$5.3135 \$6.6719 \$18.3405 \$0.0263	JAWIh JAWIH JAWI JAWI JAWI JAWI JAWI JAWI JAWI JAWI	######################################	\$18,686,555,7000 \$37,537,049,0191 \$7,803,993,3270 \$419,2400,9460 \$419,2400,9460 \$357,732,600 \$357,732,600 \$550,9450	######################################
							1	Total Transformer Ow	nership Allowance	\$ 1,055,834					Total Distribution R		*********
s:													Rates recover re	evenue requirement	Base Revenue Req	uirement	########
Transformer Ownership Allowance is	entered as a positive	mount and only fo	r those classes to wh	sich it applies											Difference % Difference		\$ 0.00

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories, undertakings, etc.)

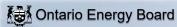
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

Summary of Proposed Changes

			Cost of	Capital	Rate Base	e and Capital Exp	enditures	Operating Expenses				Revenue Requirement		
Re	eference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
		Original Application	\$ 67,489,389	5.54%	\$1,218,659,973	\$1,119,535,420	\$ 83,965,156	\$ 52,450,059	\$ 1,024,131	\$ 90,790,555	\$ 214,886,236	\$ 10,977,316	\$ 203,908,920	\$ 21,701,279
		Updated Application for 2019 Actuals Change	\$ 68,158,171 \$ 668,782	5.54% 0.00%		\$1,131,606,567 \$ 12,071,147			\$ 2,224,065 \$ 1,199,935		\$ 216,637,617 \$ 1,751,381			

⁽²⁾ Short description of change, issue, etc.





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2022

Bridge Year

Last Rebasing Year 2016

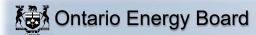
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
Schedule 1
Attachment B
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Hydro Ottawa Limited
EB-2019-0261
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Tab 1
Schedule 1
Attachment B
UPDATED
May 5, 2020
Page 2 of 17



Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

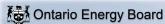
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale green cells re	present inputs
-------------------------	----------------

- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment B UPDATED May 5, 2020 Page 3 of 17

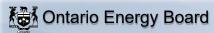
Data Input (1)

		Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	_	Per Board Decision	_
1	Rate Base										
	Gross Fixed Assets (average) Accumulated Depreciation (average)	\$1,576,350,307 (\$361,938,366)	(5)	\$3,579,542 \$7,305,832		\$1,579,929,849 (\$354,632,534)				\$1,579,929,849 (\$354,632,534)	
	Allowance for Working Capital: Controllable Expenses Cost of Power	\$96,280,116 \$1,097,187,257		\$12,011,305		\$ 96,280,116 \$1,109,198,562				\$96,280,116 \$1,109,198,562	
	Working Capital Rate (%)	7.50%	(9)	\$0		7.50%	(9)				(9)
2	Utility Income Operating Revenues:										
	Distribution Revenue at Current Rates	\$187,777,386		(\$16,664)		\$187,760,722					
	Distribution Revenue at Proposed Rates Other Revenue:	\$220,926,272		(\$784,546)		\$220,141,726					
	Specific Service Charges	\$5,394,162		(\$0)		\$5,394,162					
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000					
	Other Distribution Revenue Other Income and Deductions	\$2,885,203 \$1,733,539		(\$0) (\$42,119)		\$2,885,203 \$1,691,420					
	Other income and Deductions	\$1,733,339		(\$42,119)		\$1,691,420					
	Total Revenue Offsets	\$11,012,904	(7)	(\$42,119)		\$10,970,785					
	Operating Expenses:										
	OM+A Expenses	\$93,069,398				\$ 93,069,398				\$93,069,398	
	Depreciation/Amortization	\$56,860,206		(\$161,653)		\$ 56,698,553				\$56,698,553	
	Property taxes	\$3,210,718				\$ 3,210,718				\$3,210,718	
	Other expenses										
3	Taxes/PILs										
	Taxable Income:	(**** * 10 100)	(0)			(**** * * * * * * * * * * * * * * * * *					
	Adjustments required to arrive at taxable income	(\$32,846,126)	(3)	\$0		(\$32,846,126)					
	Utility Income Taxes and Rates:										
	Income taxes (not grossed up)	\$3,829,873		(\$977,682)		\$2,852,191					
	Income taxes (grossed up)	\$5,210,712				\$3,880,532					
	Federal tax (%)	15.00%		\$0		15.00%					
	Provincial tax (%)	11.50%		\$0		11.50%					
	Income Tax Credits	(\$85,000)		\$0		(\$85,000)					
4	Capitalization/Cost of Capital Capital Structure:										
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%					
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)				(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%					
	Prefered Shares Capitalization Ratio (%)	100.0%			-	100.0%					
	Cost of Capital										
	Long-term debt Cost Rate (%)	3.36%		\$0		3.36%					
	Short-term debt Cost Rate (%) Common Equity Cost Rate (%)	2.75%		\$0		2.75%					
	Prefered Shares Cost Rate (%)	9.13%		\$0		9.13%					

Notes:

in Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- Net of addbacks and deductions to arrive at taxable income.
- Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- (7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

Rate Base

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,576,350,307	\$3,579,542	\$1,579,929,849	\$ -	\$1,579,929,849
2	Accumulated Depreciation (average) (2)	(\$361,938,366)	\$7,305,832	(\$354,632,534)	\$ -	(\$354,632,534)
3	Net Fixed Assets (average) (2)	\$1,214,411,941	\$10,885,374	\$1,225,297,315	\$ -	\$1,225,297,315
4	Allowance for Working Capital (1)	\$89,510,053	\$900,848	\$90,410,901	(\$90,410,901)	\$ -
5	Total Rate Base	\$1,303,921,994	\$11,786,222	\$1,315,708,216	(\$90,410,901)	\$1,225,297,315

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$96,280,116	\$ -	\$96,280,116	\$ -	\$96,280,116
Cost of Power		\$1,097,187,257	\$12,011,305	\$1,109,198,562	\$ -	\$1,109,198,562
Working Capital Base	<u></u>	\$1,193,467,373	\$12,011,305	\$1,205,478,677	\$ -	\$1,205,478,677
Working Capital Rate %	(1)	7.50%	0.00%	7.50%	-7.50%	0.00%
Working Capital Allowance		\$89,510,053	\$900,848	\$90,410,901	(\$90,410,901)	\$

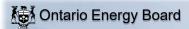
<u>Notes</u>

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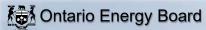
Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at	\$220,926,272	(\$784,546)	\$220,141,726	\$ -	\$220,141,726
	Proposed Rates)					
2	Other Revenue (1)	\$11,012,904	(\$42,119)	\$10,970,785	\$ -	\$10,970,785
3	Total Operating Revenues	\$231,939,176	(\$826,666)	\$231,112,510	\$ -	\$231,112,510
	Operating Expenses:					
4	OM+A Expenses	\$93,069,398	\$ -	\$93,069,398	\$ -	\$93,069,398
5 6	Depreciation/Amortization Property taxes	\$56,860,206	(\$161,653)	\$56,698,553	\$ - \$ -	\$56,698,553
7	Capital taxes	\$3,210,718 \$ -	\$ - \$ -	\$3,210,718 \$ -	\$ - \$ -	\$3,210,718 \$ -
8	Other expense	\$ -	\$ -	Ψ-	\$ -	ψ-
9	Subtotal (lines 4 to 8)	\$153,140,322	(\$161,653)	\$152,978,669	\$ -	\$152,978,669
10	Deemed Interest Expense	\$25,968,910	\$234,734	\$26,203,645	(\$1,800,624)	\$24,403,021
11	Total Expenses (lines 9 to 10)	\$179,109,232	\$73,082	\$179,182,314	(\$1,800,624)	\$177,381,691
12	Utility income before income taxes	\$52,829,944	(\$899,748)	\$51,930,196	\$1,800,624	\$53,730,820
40			-			
13	Income taxes (grossed-up)	\$5,210,712	(\$1,330,180)	\$3,880,532	<u> \$ -</u>	\$3,880,532
14	Utility net income	\$47,619,232	\$430,432	\$48,049,664	\$1,800,624	\$49,850,288
<u>Notes</u>	Other Revenues / Revenues	ue Offsets				
(1)	Specific Service Charges	\$5,394,162	(\$0)	\$5,394,162		\$5,394,162
	Late Payment Charges	\$1,000,000	\$ -	\$1,000,000		\$1,000,000
	Other Distribution Revenue	\$2,885,203	(\$0)	\$2,885,203		\$2,885,203
	Other Income and Deductions	\$1,733,539	(\$42,119)	\$1,691,420		\$1,691,420
	Total Revenue Offsets	\$11,012,904	(\$42,119)	\$10,970,785	<u> </u>	\$10,970,785

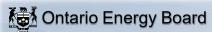


Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$47,619,231	\$48,049,664	\$44,747,858
2	Adjustments required to arrive at taxable utility income	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)
3	Taxable income	\$14,773,105	\$15,203,538	\$11,901,732
	Calculation of Utility income Taxes			
4	Income taxes	\$3,829,873	\$2,852,191	\$2,852,191
6	Total taxes	\$3,829,873	\$2,852,191	\$2,852,191
7	Gross-up of Income Taxes	\$1,380,839	\$1,028,341	\$1,028,341
8	Grossed-up Income Taxes	\$5,210,712	\$3,880,532	\$3,880,532
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$5,210,712	\$3,880,532	\$3,880,532
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

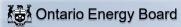
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Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capita	lization Ratio	Cost Rate	Return
		Initia	l Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$730,196,317	3.36%	\$24,534,596
2	Short-term Debt	4.00%	\$52,156,880	2.75%	\$1,434,314
3	Total Debt	60.00%	\$782,353,196	3.32%	\$25,968,910
_	Equity				
4	Common Equity	40.00%	\$521,568,798	9.13%	\$47,619,231
5 6	Preferred Shares	0.00%	\$ - \$521,568,798	0.00%	\$ - \$47,619,231
6	Total Equity	40.00%	\$521,568,798	9.13%	\$47,619,231
7	Total	100.00%	\$1,303,921,994	5.64%	\$73,588,142
		Applic	ation Update		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(Ψ)	(70)	(Ψ)
1	Long-term Debt	56.00%	\$736,796,601	3.36%	\$24,756,366
2	Short-term Debt	4.00%	\$52,628,329	2.75%	\$1,447,279
3	Total Debt	60.00%	\$789,424,930	3.32%	\$26,203,645
	Equity				
4	Common Equity	40.00%	\$526,283,286	9.13%	\$48,049,664
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$526,283,286	9.13%	\$48,049,664
7	Total	100.00%	\$1,315,708,216	5.64%	\$74,253,309
		Per Bo	oard Decision		
		(%)	(\$)	(%)	(\$)
	Debt	(/	(*)	(/	(**)
8	Long-term Debt	56.00%	\$686,166,497	3.36%	\$23,055,194
9	Short-term Debt	4.00%	\$49,011,893	2.75%	\$1,347,827
10	Total Debt	60.00%	\$735,178,389	3.32%	\$24,403,021
	Equity	40.000/	* 400.440.000	0.400/	44.747.050
11	Common Equity	40.00%	\$490,118,926	9.13%	\$44,747,858
12 13	Preferred Shares Total Equity	0.00% 40.00%	<u>\$ -</u> \$490,118,926	9.13%	<u>\$ -</u> \$44,747,858
14	Total	100.00%	\$1,225,297,315	5.64%	\$69,150,879
	Total	100.00%	Ψ1,220,201,010	<u> </u>	ψου, 1ου,υτο
Notes					

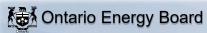


Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application	Update	Per Board I	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue	\$187,777,386 \$11,012,904	\$37,895,475 \$183,030,797 \$11,012,904	\$187,760,722 \$10,970,785	\$38,660,506 \$181,481,220 \$10,970,785	\$187,760,722 \$10,970,785	\$31,718,425 \$188,423,301 \$10,970,785
4	Offsets - net Total Revenue	\$198,790,290	\$231,939,176	\$198,731,506	\$231,112,510	\$198,731,506	\$231,112,510
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$153,140,322 \$25,968,910 \$179,109,232	\$153,140,322 \$25,968,910 \$179,109,232	\$152,978,669 \$26,203,645 \$179,182,314	\$152,978,669 \$26,203,645 \$179,182,314	\$152,978,669 \$24,403,021 \$177,381,691	\$152,978,669 \$24,403,021 \$177,381,691
9	Utility Income Before Income Taxes	\$19,681,057	\$52,829,944	\$19,549,192	\$51,930,196	\$21,349,816	\$53,730,820
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)	(\$32,846,126)
11	Taxable Income	(\$13,165,069)	\$19,983,818	(\$13,296,934)	\$19,084,070	(\$11,496,310)	\$20,884,694
12 13	Income Tax Rate	26.50% \$ -	26.50% \$5,295,712	26.50% \$ -	26.50% \$5,057,279	26.50% \$ -	26.50% \$5,534,444
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$19,766,057	(\$85,000) \$47,619,232	(\$85,000) \$19,634,192	(\$85,000) \$48,049,664	(\$85,000) \$21,434,816	(\$85,000) \$49,850,288
16	Utility Rate Base	\$1,303,921,994	\$1,303,921,994	\$1,315,708,216	\$1,315,708,216	\$1,225,297,315	\$1,225,297,315
17	Deemed Equity Portion of Rate Base	\$521,568,798	\$521,568,798	\$526,283,286	\$526,283,286	\$490,118,926	\$490,118,926
18	Income/(Equity Portion of Rate Base)	3.79%	9.13%	3.73%	9.13%	4.37%	10.17%
19	Target Return - Equity on Rate Base	9.13%	9.13%	9.13%	9.13%	9.13%	9.13%
20	Deficiency/Sufficiency in Return on Equity	-5.34%	0.00%	-5.40%	0.00%	-4.76%	1.04%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	3.51% 5.64%	5.64% 5.64%	3.48% 5.64%	5.64% 5.64%	3.74% 5.64%	6.06% 5.64%
23	Deficiency/Sufficiency in Rate of Return	-2.14%	0.00%	-2.16%	0.00%	-1.90%	0.42%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$47,619,231 \$27,853,174 \$37,895,475 (1)	\$47,619,231 \$1	\$48,049,664 \$28,415,472 \$38,660,506 (1)	\$48,049,664 \$0	\$44,747,858 \$23,313,042 \$31,718,425 (1)	\$44,747,858 \$5,102,430

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement

Line No.	Particulars	Application	Application Update	Per Board Decision	
1	OM&A Expenses	\$93,069,398	\$93,069,398	\$93,069,398	
2	Amortization/Depreciation	\$56,860,206	\$56,698,553		
3	Property Taxes	\$3,210,718	\$3,210,718	\$3,210,718	
5	Income Taxes (Grossed up)	\$5,210,712	\$3,880,532	\$3,880,532	
6	Other Expenses	\$ -			
7	Return				
	Deemed Interest Expense	\$25,968,910	\$26,203,645	\$24,403,021	
	Return on Deemed Equity	\$47,619,231	\$48,049,664	\$44,747,858	
8	Service Revenue Requirement				
	(before Revenues)	\$231,939,175	\$231,112,510	\$226,010,081	
9	Revenue Offsets	\$11,012,904	\$10,970,785	\$ -	
10	Base Revenue Requirement	\$220,926,271	\$220,141,725		
	(excluding Tranformer Owership Allowance credit adjustment)				
11	Distribution revenue	\$220.926.272	\$220,141,726	\$220.141.726	
12	Other revenue	\$11,012,904	\$10,970,785		
13	Total revenue	\$231,939,176	\$231,112,510	\$231,112,510	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$1	(1) \$0	(1) \$5,102,430 ⁽¹⁾	

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

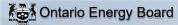
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$231,939,175	\$231,112,510	(\$0)	\$226,010,081	(\$1)
Deficiency/(Sufficiency)	\$37,895,475	\$38,660,506	\$0	\$31,718,425	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$220,926,271	\$220,141,725	(\$0)	\$226,010,081	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$33,148,886	\$32,381,004	(\$0)	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

kW/kVA (1)

Annual

6,818,165

1,517,223

1,050,767

58,863

7,440

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

App	lication	Update	
-----	----------	--------	--

Customer Class		Initial Application
Customer Class		Initial Application
Input the name of each customer class.	Customer / Connections	kWh
	Test Year average or mid-year	Annual
Residential	319,386	2,273,964,000
GS < 50 kW	25,554	699,456,000
GS > 50 to 1,499 kW	3,085	2,825,111,000
GS > 1,500 to 4,999 kW	68	682,362,000
Large Use	11	572,889,000
Street Lighting	63,725	21,225,000
Sentinel Lighting	55	47,000
Unmetered Scattered Load	3,321	13,130,000
Standby Power	3	

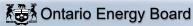
4	Application Update	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual
319,386 25,554 3,085 68 11 63,725 55 3,321	2,273,821,000 699,134,000 2,823,141,000 682,301,000 572,889,000 21,225,000 47,000 13,130,000	6,817,445 1,516,028 1,050,767 58,864 132 7,440
	7 005 600 000	0.450.676

	Per Board Decision	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual

Total 7,088,184,000 9,452,590 7,085,688,000 9,450,676 - -

Notes:

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)		Allocated from vious Study (1)	%	-	Allocated Class enue Requirement	%
From Sheet 10. Load Forecast					(7A)	
Residential GS < 50 kW GS > 50 to 1,499 kW GS > 1,500 to 4,999 kW Large Use Street Lighting Sentinel Lighting Unmetered Scattered Load Standby Power	* * * * * * * * * *	107,281,788 20,646,221 48,750,762 13,365,246 8,063,832 1,811,439 6,568 547,549 70,655	53.50% 10.30% 24.31% 6.66% 4.02% 0.90% 0.00% 0.27% 0.04%	***	127,470,109 23,083,674 57,445,753 12,113,259 9,339,599 1,048,177 10,525 587,268 14,147	55.16% 9.99% 24.86% 5.24% 4.04% 0.45% 0.00% 0.25% 0.01%
Total	\$	200,544,060	Service Revenue Requirement (from Sheet 9)	\$ \$	231,112,510	100.00%

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rrent approved rates	LF X current oproved rates X (1+d)	LF X	Proposed Rates	ľ	Miscellaneous Revenues
	(7B)	(7C)		(7D)		(7E)
1 Residential	\$ 117,240,213	\$ 124,454,462	\$	124,445,561	\$	8,049,754
2 GS < 50 kW	\$ 24,986,893	\$ 26,704,038	\$	26,680,774	\$	981,290
GS > 50 to 1,499 kW	\$ 44,953,805	\$ 47,765,964	\$	47,766,023	\$	1,389,390
GS > 1,500 to 4,999 kW	\$ 11,220,392	\$ 11,572,074	\$	11,572,133	\$	271,417
Large Use	\$ 7,593,785	\$ 7,790,032	\$	7,790,002	\$	190,980
Street Lighting	\$ 1,119,200	\$ 1,205,866	\$	1,205,328	\$	51,571
Sentinel Lighting	\$ 5,002	\$ 5,398	\$	5,934	\$	878
Unmetered Scattered Load	\$ 568,490	\$ 622,206	\$	622,437	\$	35,072
Standby Power Comparison of the comparison of t	\$ 20,298	\$ 21,685	\$	21,684	\$	433
Total	\$ 207,708,077	\$ 220,141,726	\$	220,109,877	\$	10,970,785

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.95%	103.94%	85 - 115
GS < 50 kW	118.23%	119.93%	119.83%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.77%	97.77%	80 - 120
Large Use	85.36%	85.45%	85.45%	85 - 115
Street Lighting	80.00%	119.96%	119.91%	80 - 120
Sentinel Lighting	76.00%	59.63%	64.72%	80 - 120
Unmetered Scattered Load	118.72%	111.92%	111.96%	80 - 120
Standby Power	21.03%	156.34%	156.34%	80 - 120

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

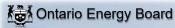
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propose	Proposed Revenue-to-Cost Ratio								
	Test Year	Price Cap IR F	Period	Policy Range						
	2021	2022	2023							
Residential	103.94%	103.94%	103.94%	85 - 115						
GS < 50 kW	119.83%	119.83%	119.83%	80 - 120						
GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120						
GS > 1,500 to 4,999 kW	97.77%	97.77%	97.77%	80 - 120						
Large Use	85.45%	85.45%	85.45%	85 - 115						
Street Lighting	119.91%	119.91%	119.91%	80 - 120						
Sentinel Lighting	64.72%	64.72%	64.72%	80 - 120						
Unmetered Scattered Load	111.96%	111.96%	111.96%	80 - 120						
Standby Power	156.34%	156.34%	156.34%	80 - 120						

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Re	sident	ial Class
Customers		319,386
kWh		2,273,821,000
Proposed Residential Class Specific Revenue	\$	124,445,561.04
Requirement ¹		
Residential Base Rates on Curr	rent Ta	riff
Monthly Fixed Charge (\$)	\$	32.47
Distribution Volumetric Rate (\$/kWh)	\$	-

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	32.47	319,386	\$ 124,445,561.04	100.00%
Variable	0	2,273,821,000	\$ -	0.00%
TOTAL	-	=	\$ 124,445,561.04	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	_
Transition Years ²	0

	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$ 124,445,561.04	32.47	\$ 124,445,561.04
Variable	\$ -	0	\$ -
TOTAL	\$ 124,445,561.04	-	\$ 124,445,561.04

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	-	

Checks ³	
Change in Fixed Rate	
Difference Between Revenues @ Proposed Rates	
and Class Specific Revenue Requirement	

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\particle{4}/year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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Attachment B

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UPDATED

Revenue Requirement-Workform (RRWF) for 2020 Filers

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Customer and Load Forecast Customer and Load Forecast Customer / Customer / Charge Determinant Connections Charge Connections Charge Connections Connections Charge Connections Connections Charge Connections Connections Charge Cha	Distribution		Dis	stribution Rate	ates			Revenue Reconciliati	on
Customers / Connections									
Residential	of	- N	No. of	Rate	Volumetric R	Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues les Transformer Ownership Allowance
Tatal Transforms Courant & April 20		\$22.03 \$212.51 \$4,325.38 \$15,624.95 \$1.02 \$4.64 \$6.13	3 1 8 5 2 4 3	\$0.000 \$0.02 \$5.90 \$5.56 \$5.72 \$7.22 \$21.75 \$0.02	0285 /kWh 0028 /kW 06669 /kW 7512 /kW 2552 /kW 7549 /kW 0288 /kWh	4	**************************************	\$ 19,925,319,0000 \$ 8,439,576,2732 \$ 40,242,014,3460 \$ 8,439,576,2732 \$ 6,043,171,04 \$ 425,304,1728 \$ 2,871,441,000 \$ 15,541,44100 \$ 5 \$	######################################
							Total Distribution R		##########
Rattes:	Rate			Rates recov	over revenue re	equirement	Base Revenue Requi	uirement	-\$ 31.877.

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

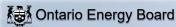
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

Π			Cost of	Cost of Capital Rate Base			se and Capital Expenditures		Operating Expenses			Revenue Requirement			
F	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues			
Ī		Original Application	\$ 73,588,142	5.64%	\$1,303,921,994	\$1,193,467,373	\$ 89,510,053	\$ 56,860,206	\$ 5,210,712	\$ 93,069,398	\$ 231,939,175	\$ 11,012,904	\$ 220,926,271	\$ 37,895,475	
1		Updated Application for 2019 Actuals Change	\$ 74,253,309 \$ 665,167	5.64% 0.00%		\$ 1,205,478,677 \$ 12,011,305			\$ 3,880,532 -\$ 1,330,180		\$ 231,112,510 -\$ 826,665				





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2023

Bridge Year

Last Rebasing Year 2016

The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
Schedule 1
Attachment C
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May 5, 2020
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Hydro Ottawa Limited
EB-2019-0261
Exhibit 6
Tab 1
Schedule 1
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May 5, 2020
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Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

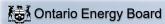
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale green cells re	present inputs
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- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



Hydro Ottawa Limited EB-2019-0261 Exhibit 6 Tab 1 Schedule 1 Attachment C **UPDATED** May 5, 2020 Page 3 of 17

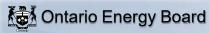
Data Input (1)

		Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	Per Board Decision	
1	Rate Base									
•	Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$1,672,507,871 (\$417,844,547)	(5)	\$5,535,064 \$7,449,861	\$	1,678,042,935 (\$410,394,686)			\$1,678,042,935 (\$410,394,686)	
	Controllable Expenses Cost of Power Working Capital Rate (%)	\$98,696,747 \$1,167,387,072 7.50%	(9)	\$13,030,230 \$0	\$	98,696,747 1,180,417,302 7.50%	(9)		\$98,696,747 \$1,180,417,302	
2	3 . , ,									
2	Utility Income Operating Revenues:									
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$188,659,471 \$232,378,120		(\$16,311) \$512,941		\$188,643,160 \$232,891,061				
	Specific Service Charges Late Payment Charges Other Distribution Revenue	\$5,678,587 \$1,000,000 \$2,971,480		\$0 \$0 \$0		\$5,678,587 \$1,000,000 \$2,971,480				
	Other Income and Deductions	\$2,971,460		\$0 \$0		\$2,971,460				
	Total Revenue Offsets	\$11,667,243	(7)	\$0		\$11,667,243				
	Operating Expenses:									
	OM+A Expenses	\$95,405,440			\$	95,405,440			\$95,405,440	
	Depreciation/Amortization	\$59,141,744		(\$126,405)	\$				\$59,015,339	
	Property taxes Other expenses	\$3,291,307			\$	3,291,307			\$3,291,307	
_	•									
3	Taxes/PILs Taxable Income:									
	raxable income.	(\$25,626,668)	(3)	\$0		(\$25,626,668)				
	Adjustments required to arrive at taxable income	(\$20,020,000)		Ψū		(\$20,020,000)				
	Utility Income Taxes and Rates:									
	Income taxes (not grossed up)	\$6,442,789		(\$118,927)		\$6,323,862				
	Income taxes (grossed up)	\$8,765,699		**		\$8,603,894				
	Federal tax (%) Provincial tax (%)	15.00% 11.50%		\$0 \$0		15.00% 11.50%				
	Income Tax Credits	(\$85,000)		\$0		(\$85,000)				
	014-11411045-014-1	· ·								
4	Capitalization/Cost of Capital Capital Structure:									
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%				
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)		(8)	
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%				
	Prefered Shares Capitalization Ratio (%)	100.0%			_	100.0%				
		100.0%				100.0%				
	Cost of Capital									
	Long-term debt Cost Rate (%)	3.40%		\$0		3.40%				
	Short-term debt Cost Rate (%)	2.75%		\$0		2.75%				
	Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	9.31%		\$0		9.31%				

General Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- (2) Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- Net of addbacks and deductions to arrive at taxable income
- Average of Gross Fixed Assets at beginning and end of the Test Year
- Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.

 The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

R	at	te	В	а	s	e

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2)	\$1,672,507,871	\$5,535,064	\$1,678,042,935	\$ -	\$1,678,042,935
2	Accumulated Depreciation (average) (2)	(\$417,844,547)	\$7,449,861	(\$410,394,686)	\$ -	(\$410,394,686)
3	Net Fixed Assets (average) (2)	\$1,254,663,324	\$12,984,925	\$1,267,648,249	\$ -	\$1,267,648,249
4	Allowance for Working Capital (1)	\$94,956,286	\$977,267	\$95,933,554	(\$95,933,554)	\$-
5	Total Rate Base	\$1,349,619,610	\$13,962,192	\$1,363,581,803	(\$95,933,554)	\$1,267,648,249

(1) Allowance for Working Capital - Derivation

Controllable Expenses Cost of Power Working Capital Base		\$98,696,747 <u>\$1,167,387,072</u> \$1,266,083,819		\$ - \$13,030,230 \$13,030,230	\$98,696,747 <u>\$1,180,417,302</u> \$1,279,114,049	\$ - \$ - \$ -	\$98,696,747 \$1,180,417,302 \$1,279,114,049
Working Capital Rate %	(1)	7.50%		0.00%	7.50%	-7.50%	0.00%
Working Capital Allowance		\$94,956,286	;	\$977,267	\$95,933,554	(\$95,933,554)	\$

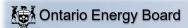
Notes

10

6

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.

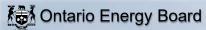


Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$232,378,120	\$512,941	\$232,891,061	\$ -	\$232,891,061
2	Other Revenue (1	\$11,667,243	\$ -	\$11,667,243	\$ -	\$11,667,243
3	Total Operating Revenues	\$244,045,363	\$512,941	\$244,558,304	\$-	\$244,558,304
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$95,405,440 \$59,141,744 \$3,291,307 \$ - \$ -	\$ - (\$126,405) \$ - \$ - \$ -	\$95,405,440 \$59,015,339 \$3,291,307 \$ -	\$ - \$ - \$ - \$ - \$ -	\$95,405,440 \$59,015,339 \$3,291,307 \$-
9	Subtotal (lines 4 to 8)	\$157,838,491	(\$126,405)	\$157,712,086	\$ -	\$157,712,086
10	Deemed Interest Expense	\$27,181,339	\$281,199	\$27,462,538	(\$1,932,102)	\$25,530,436
11	Total Expenses (lines 9 to 10)	\$185,019,830	\$154,794	\$185,174,624	(\$1,932,102)	\$183,242,522
12	Utility income before income taxes	\$59,025,534	\$358,147	\$59,383,681	\$1,932,102	\$61,315,783
13	Income taxes (grossed-up)	\$8,765,699	(\$161,805)	\$8,603,894	\$ -	\$8,603,894
14	Utility net income	\$50,259,834	\$519,953	\$50,779,787	\$1,932,102	\$52,711,889
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$5,678,587 \$1,000,000 \$2,971,480 \$2,017,176	\$ - \$ - \$ - \$ -	\$5,678,587 \$1,000,000 \$2,971,480 \$2,017,176		\$5,678,587 \$1,000,000 \$2,971,480 \$2,017,176
	Total Revenue Offsets	<u>\$11,667,243</u>	<u> </u>	<u>\$11,667,243</u>	<u> </u>	\$11,667,243

May 5, 2020

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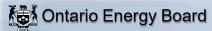


Revenue Requirement Workform Attachment C UPDATED (RRWF) for 2020 Filers

Taxes/PILs

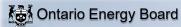
Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$50,259,834	\$50,779,786	\$47,207,221
2	Adjustments required to arrive at taxable utility income	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)
3	Taxable income	\$24,633,166	\$25,153,118	\$21,580,553
	Calculation of Utility income Taxes			
4	Income taxes	\$6,442,789	\$6,323,862	\$6,323,862
6	Total taxes	\$6,442,789	\$6,323,862	\$6,323,862
7	Gross-up of Income Taxes	\$2,322,910	\$2,280,032	\$2,280,032
8	Grossed-up Income Taxes	\$8,765,699	\$8,603,894	\$8,603,894
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$8,765,699	\$8,603,894	\$8,603,894
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes



Capitalization/Cost of Capital

Line No.	Particulars	Capitaliz	zation Ratio	Cost Rate	Return
		Initial A	Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$755,786,982	3.40%	\$25,696,757
2	Short-term Debt	4.00%	\$53,984,784	2.75%	\$1,484,582
3	Total Debt	60.00%	\$809,771,766	3.36%	\$27,181,339
	Equity				
4	Common Equity	40.00%	\$539,847,844	9.31%	\$50,259,834
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$539,847,844	9.31%	\$50,259,834
7	Total	100.00%	\$1,349,619,610	5.74%	\$77,441,173
		Applica	tion Update		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(Ψ)	(70)	(Ψ)
1	Long-term Debt	56.00%	\$763,605,810	3.40%	\$25,962,598
2	Short-term Debt	4.00%	\$54,543,272	2.75%	\$1,499,940
3	Total Debt	60.00%	\$818,149,082	3.36%	\$27,462,538
	Equity				
4	Common Equity	40.00%	\$545,432,721	9.31%	\$50,779,786
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$545,432,721	9.31%	\$50,779,786
7	Total	100.00%	\$1,363,581,803	5.74%	\$78,242,324
		Per Boa	rd Decision		
		(0()	(())	(0/)	(4)
	Dobt	(%)	(\$)	(%)	(\$)
8	Debt Long-term Debt	56.00%	\$709,883,019	3.40%	\$24,136,023
9	Short-term Debt	4.00%	\$50,705,930	2.75%	\$1,394,413
10	Total Debt	60.00%	\$760,588,949	3.36%	\$25,530,436
	Equity				
11	Common Equity	40.00%	\$507,059,300	9.31%	\$47,207,221
12	Preferred Shares	0.00%	\$-	0.00%	\$-
13	Total Equity	40.00%	\$507,059,300	9.31%	\$47,207,221
14	Total	100.00%	\$1,267,648,249	5.74%	\$72,737,657
Note -					
<u>Notes</u>					



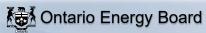
Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application	Update	Per Board I	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$188,659,471 \$11,667,243	\$47,439,387 \$184,938,733 \$11,667,243	\$188,643,160 \$11,667,243	\$48,379,601 \$184,511,460 \$11,667,243	\$188,643,160 \$11,667,243	\$40,890,257 \$192,000,804 \$11,667,243
4	Total Revenue	\$200,326,714	\$244,045,363	\$200,310,403	\$244,558,304	\$200,310,403	\$244,558,304
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$157,838,491 \$27,181,339 \$185,019,830	\$157,838,491 \$27,181,339 \$185,019,830	\$157,712,086 \$27,462,538 \$185,174,624	\$157,712,086 \$27,462,538 \$185,174,624	\$157,712,086 \$25,530,436 \$183,242,522	\$157,712,086 \$25,530,436 \$183,242,522
9	Utility Income Before Income Taxes	\$15,306,885	\$59,025,534	\$15,135,780	\$59,383,681	\$17,067,882	\$61,315,783
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)	(\$25,626,668)
11	Taxable Income	(\$10,319,783)	\$33,398,866	(\$10,490,888)	\$33,757,013	(\$8,558,786)	\$35,689,115
12 13	Income Tax Rate	26.50% \$ -	26.50% \$8,850,699	26.50% \$ -	26.50% \$8,945,608	26.50% \$ -	26.50% \$9,457,615
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$15,391,885	(\$85,000) \$50,259,834	(\$85,000) \$15,220,780	(\$85,000) \$50,779,787	(\$85,000) \$17,152,882	(\$85,000) \$52,711,889
16	Utility Rate Base	\$1,349,619,610	\$1,349,619,610	\$1,363,581,803	\$1,363,581,803	\$1,267,648,249	\$1,267,648,249
17	Deemed Equity Portion of Rate Base	\$539,847,844	\$539,847,844	\$545,432,721	\$545,432,721	\$507,059,300	\$507,059,300
18	Income/(Equity Portion of Rate Base)	2.85%	9.31%	2.79%	9.31%	3.38%	10.40%
19	Target Return - Equity on Rate Base	9.31%	9.31%	9.31%	9.31%	9.31%	9.31%
20	Deficiency/Sufficiency in Return on Equity	-6.46%	0.00%	-6.52%	0.00%	-5.93%	1.09%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	3.15% 5.74%	5.74% 5.74%	3.13% 5.74%	5.74% 5.74%	3.37% 5.74%	6.17% 5.74%
23	Deficiency/Sufficiency in Rate of Return	-2.58%	0.00%	-2.61%	0.00%	-2.37%	0.43%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$50,259,834 \$34,867,950 \$47,439,387 (1)	\$50,259,834 \$0	\$50,779,786 \$35,559,007 \$48,379,601 (1)	\$50,779,786 \$1	\$47,207,221 \$30,054,339 \$40,890,257 (1)	\$47,207,221 \$5,504,668

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

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Revenue Requirement Workform (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application		Application Update		Per Board Decision	
1	OM&A Expenses	\$95,405,440		\$95,405,440		\$95,405,440	
2	Amortization/Depreciation	\$59,141,744		\$59,015,339		\$59,015,339	
3	Property Taxes	\$3,291,307		\$3,291,307		\$3,291,307	
5	Income Taxes (Grossed up)	\$8,765,699		\$8,603,894		\$8,603,894	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$27,181,339		\$27,462,538		\$25,530,436	
	Return on Deemed Equity	\$50,259,834		\$50,779,786		\$47,207,221	
8	Service Revenue Requirement						
	(before Revenues)	\$244,045,363	,	\$244,558,304		\$239,053,636	
9	Revenue Offsets	\$11,667,243		\$11,667,243		\$ -	
10	Base Revenue Requirement	\$232,378,120		\$232,891,060		\$239,053,636	
	(excluding Tranformer Owership Allowance credit adjustment)	<u> </u>	,	, . , , ,		,	
11	Distribution revenue	\$232.378.120		\$232.891.061		\$232,891,061	
12	Other revenue	\$11,667,243		\$11,667,243		\$11,667,243	
13	Total revenue	\$244,045,363		\$244,558,304		\$244,558,304	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	<u>\$0</u>	(1)	\$1_	(1)	\$5,504,668	(1)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

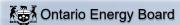
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$244,045,363	\$244,558,304	\$0	\$239,053,636	(\$1)
Deficiency/(Sufficiency)	\$47,439,387	\$48,379,601	\$0	\$40,890,257	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$232,378,120	\$232,891,060	\$0	\$239,053,636	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$43,718,649	\$44,247,901	\$0	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

Customer Class		
Input the name of each customer class.		Te
Residential		
GS < 50 kW		
GS > 50 to 1,499 kW		
GS > 1,500 to 4,999 kW		
Large Use		
Street Lighting		
Sentinel Lighting		
Unmetered Scattered Load		
Standby Power		
	1 1	

	Initial Application	
Customer / Connections	kWh	kW/kVA (1)
Test Year average or mid-year	Annual	Annual
322,306 25,704 3,049 68 11 64,645 55 3,321 3	2,299,513,000 697,989,000 2,831,390,000 682,571,000 572,033,000 20,413,000 47,000 12,663,000	6,821,528 1,517,607 1,049,467 56,618 132 7,440

	Application opuate	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual
322,306 25,704 3,049 68 11 64,645 55 3,321 3	2,299,366,000 697,636,000 2,829,220,000 682,505,000 572,033,000 20,413,000 47,000 12,663,000	6,821,057 1,516,400 1,049,467 56,618 132 7,440

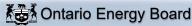
Application Update

	Per Board Decision						
Customer /	kWh	kW/kVA (1)					
Connections Test Year average or mid-year	Annual	Annual					

Total 7,116,619,000 9,452,792 7,113,883,000 9,451,114 - -

Notes

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)	 s Allocated from evious Study (1)	%	-	Allocated Class enue Requirement	%
From Sheet 10. Load Forecast				(1) (7A)	
Residential	\$ 107,281,788	53.50%	\$	134,886,137	55.16%
GS < 50 kW	\$ 20,646,221	10.30%	\$	24,426,649	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	60,787,864	24.86%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	12,817,991	5.24%
Large Use	\$ 8,063,832	4.02%	\$	9,882,964	4.04%
Street Lighting	\$ 1,811,439	0.90%	\$	1,109,158	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,137	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	621,435	0.25%
Standby Power	\$ 70,655	0.04%	\$	14,970	0.01%
Total	\$ 200,544,060	100.00%	\$	244,558,304	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	244,558,303.73	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	Miscellaneous Revenues		
	(7B)	(7C)		(7D)	(7E)		
1 Residential	\$ 125,583,310	\$ 131,662,249	\$	131,655,555	\$	8,560,777	
QS < 50 kW	\$ 26,677,735	\$ 28,231,853	\$	28,258,530	\$	1,043,585	
GS > 50 to 1,499 kW	\$ 48,038,651	\$ 50,544,781	\$	50,544,505	\$	1,477,593	
GS > 1,500 to 4,999 kW	\$ 11,971,157	\$ 12,245,671	\$	12,245,667	\$	288,647	
Large Use	\$ 8,098,188	\$ 8,243,364	\$	8,243,395	\$	203,104	
Street Lighting	\$ 1,200,359	\$ 1,275,362	\$	1,274,794	\$	54,845	
Sentinel Lighting	\$ 5,934	\$ 6,276	\$	6,843	\$	933	
Unmetered Scattered Load	\$ 608,987	\$ 658,559	\$	658,038	\$	37,299	
Standby Power	\$ 21,684	\$ 22,947	\$	22,947	\$	460	
Total	\$ 222,206,007	\$ 232,891,061	\$	232,910,273	\$	11,667,243	

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.96%	103.95%	85 - 115
2 GS < 50 kW	118.23%	119.85%	119.96%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.58%	85.58%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.79%	97.79%	80 - 120
Large Use	85.36%	85.46%	85.47%	85 - 115
Street Lighting	80.00%	119.93%	119.88%	80 - 120
Sentinel Lighting	76.00%	64.73%	69.82%	80 - 120
Unmetered Scattered Load	118.72%	111.98%	111.89%	80 - 120
Standby Power	21.03%	156.36%	156.36%	80 - 120
1				
2				
3				
Į.				
5				
6				
,				
3				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Policy Range		
	Test Year	Price Cap IR P	eriod	, ,
	2021	2022	2023	
Residential	103.95%	103.95%	103.95%	85 - 115
GS < 50 kW	119.96%	119.96%	119.96%	80 - 120
GS > 50 to 1,499 kW	85.58%	85.58%	85.58%	80 - 120
GS > 1,500 to 4,999 kW	97.79%	97.79%	97.79%	80 - 120
Large Use	85.47%	85.47%	85.47%	85 - 115
Street Lighting	119.88%	119.88%	119.88%	80 - 120
Sentinel Lighting	69.82%	69.82%	69.82%	80 - 120
Unmetered Scattered Load	111.89%	111.89%	111.89%	80 - 120
Standby Power	156.36%	156.36%	156.36%	80 - 120

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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Revenue Requirement Workform (RRWF) for 2020 Filers

New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class											
Customers		322,306									
kWh		2,299,366,000									
Proposed Residential Class Specific Revenue	\$	131,655,554.88									
Requirement ¹											
Residential Base Rates on Curr	rent Ta	riff									
Monthly Fixed Charge (\$)	\$	34.04									
Distribution Volumetric Rate (\$/kWh)	\$	-									

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	34.04	322,306	\$ 131,655,554.88	100.00%
Variable	0	2,299,366,000	\$ -	0.00%
TOTAL	-	-	\$ 131,655,554.88	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	_
Transition Years ²	0

	Т	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	131,655,554.88	34.04	\$ 131,655,554.88
Variable	\$	-	0	\$ -
TOTAL	\$	131,655,554.88	-	\$ 131,655,554.88

				Revenue
		Revenue @ new	Final Adjusted	Reconciliation @
	New F/V Split	F/V Split	Base Rates	Adjusted Rates
Fixed				
Variable				
TOTAL	•	\$ -	i	

Checks ³									
Change in Fixed Rate									
Difference Between Revenues @ Proposed Rates									
and Class Specific Revenue Requirement									

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\particle{4}/year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

Ontario Energy Board

Revenue Requirement-Workform (RRWF) for 2020 Filers

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Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:	Stage in Process: Application Update				Cla	ss Allocated Rever	nues					Dist	ribution Rates		F	levenue Reconciliatio	n
	Customer and Load Forecast From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design				Fixed / Vari	be entered as a											
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Ser	No. of decimals	Volun	netric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential 2 GS + 50 NW 3 GS > 50 Nt + 1499 NW 4 GS > 1500 to 4,999 NW 5 Large Use 6 Street Lighting 7 Sentinel Lighting 8 Standby Power 11 12 13 14 15 16 17 7 18 19 19 19 19 19 19 19 19 19 19 19 19 19	RAWTH	322,306 25,704 3,049 68 111 64,645 55 3,321 3	2,299,366,000 687,636,000 2,829,220,000 682,505,000 572,033,000 20,413,000 12,663,000	6,821,057 1,516,400 1,049,467 56,618 132 7,440 - - - - - - - -	\$ 131,655,555 \$ 28,258,530 \$ 50,544,505 \$ 12,245,667 \$ 8,243,395 \$ 1,274,794 \$ 6,843 \$ 658,038 \$ 22,947	\$ 131,655,555 \$ 7,189,870 \$ 8,181,134 \$ 3,610,451 \$ 2,099,467 \$ 837,797 \$ 3,531 \$ 264,202 \$ 6,501	\$ 21,069,560 \$ 42,363,372 \$ 8,635,216 \$ 6,143,927 \$ 436,997 \$ 3,312 \$ 393,836 \$ 16,446	100.00%, 25.44%, 16.19%, 29.48%, 25.47%, 65.72%, 51.60%, 40.15%, 28.33%	0.00% 74.55% 83.81% 70.52% 74.53% 34.28% 48.40% 59.85% 71.67%	\$ 343,209 \$ 397,067 \$ 315,753	\$34.0 \$23.3 \$22.6 \$4,424.5 \$15,905.0 \$5.3 \$6.6 \$180.5		\$0.0302 \$6.2610 \$5.9564 \$6.1552 \$7.7183 \$25.0873 \$0.0311	KWPh KWP KWW KWW KWW KWW KWW KWW	######################################	\$ 221,068,607,2000 \$42,706,637,8770 \$42,706,637,8770 \$5,032,249,650,670,2764 \$5,032,249,650,670,2764 \$3,3311,5236 \$16,446,1200 \$5,032,670,670,670,670,670,670,670,670,670,670	######################################
	т						Total Transformer Ownership Allowance \$ 1,056,029				Rates recover revenue requirement		Total Distribution Re		*************		
Notes: 1 Transformer Ownership Allowance is	entered as a positive a	amount, and only fo	r those classes to wh	ich it applies.									1465 15000 101	ondo requitations	Difference % Difference	- Control	\$ 19,212.69 0.008%

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

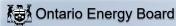
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

Π			Cost of	Capital	Rate Base	e and Capital Exp	enditures	Ope	erating Expense	es	Revenue Requirement			
F	Reference ⁽¹⁾	item / Description ⁽²⁾		Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
Ī		Original Application	\$ 77,441,173	5.74%	\$1,349,619,610	\$1,266,083,819	\$ 94,956,286	\$ 59,141,744	\$ 8,765,699	\$ 95,405,440	\$ 244,045,363	\$ 11,667,243	\$ 232,378,120	\$ 47,439,387
١		Updated Application for 2019 Actuals Change	\$ 78,242,324 \$ 801,151	5.74% 0.00%		\$1,279,114,049 \$13,030,230					\$ 244,558,304 \$ 512,940		\$ 232,891,060 \$ 512,940	





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2024

Bridge Year

Last Rebasing Year 2016

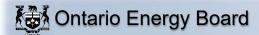
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

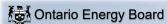
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost of Capital 14. Tracking Sheet

Notes:

(1) Pale green cells re	present inputs
-------------------------	----------------

- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



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Data Input (1)

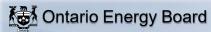
		Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	_	Per Board Decision	_
1	Rate Base										
	Gross Fixed Assets (average)	\$1,750,450,428		\$5,535,064		\$1,755,985,492				\$1,755,985,492	
	Accumulated Depreciation (average)	(\$476,047,244)	(5)	\$7,576,266		(\$468,470,978)				(\$468,470,978)	
	Allowance for Working Capital:										
	Controllable Expenses	\$101,174,035		*** ***		\$ 101,174,035				\$101,174,035	
	Cost of Power	\$1,264,188,174 7.50%	(9)	\$12,973,656 \$0		\$ 1,277,161,830 7.50%	(9)			\$1,277,161,830	(9)
	Working Capital Rate (%)	7.50%	(0)	\$0		7.50%	(0)				(0)
2	Utility Income										
	Operating Revenues:										
	Distribution Revenue at Current Rates	\$189,644,373		(\$16,564)		\$189,627,810					
	Distribution Revenue at Proposed Rates Other Revenue:	\$241,253,766		\$563,660		\$241,817,426					
	Specific Service Charges	\$5,910,078		\$0		\$5,910,078					
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000					
	Other Distribution Revenue	\$3,060,205		\$0		\$3,060,205					
	Other Income and Deductions	\$2,181,108		\$0		\$2,181,108					
	Total Revenue Offsets	\$12,151,392	(7)	\$0		\$12,151,392					
	Operating Expenses:	007.000.447		•		07.000.447				007.000.447	
	OM+A Expenses Depreciation/Amortization	\$97,800,117 \$60,711,328		\$ - (\$126,405)		\$ 97,800,117 \$ 60,584,923				\$97,800,117 \$60,584,923	
	Property taxes	\$3,373,918		(\$120,405)		\$ 3,373,918				\$3,373,918	
	Other expenses	ψο,οτο,οτο		Ψ		φ 0,070,010				φο,στο,στο	
3	Taxes/PILs										
•	Taxable Income:										
		(\$19,163,272)	(3)	\$0		(\$19,163,272)					
	Adjustments required to arrive at taxable income										
	Utility Income Taxes and Rates:										
	Income taxes (not grossed up)	\$8,569,789		(\$93,259)		\$8,476,530					
	Income taxes (grossed up)	\$11,659,577		••		\$11,532,694					
	Federal tax (%)	15.00%		\$0		15.00%					
	Provincial tax (%) Income Tax Credits	11.50% (\$85,000)		\$0 \$0		11.50% (\$85,000)					
		(ψου,ουυ)		ΨΟ		(\$00,000)					
4	Capitalization/Cost of Capital Capital Structure:										
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%					
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0			(8)				(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%					
	Prefered Shares Capitalization Ratio (%)			**							
	•	100.0%			-	100.0%					
	Cost of Capital	0.440/		00		0.440/					
	Long-term debt Cost Rate (%)	3.44% 2.75%		\$0 \$0		3.44% 2.75%					
	Short-term debt Cost Rate (%) Common Equity Cost Rate (%)	2.75% 9.41%		\$0 \$0		2.75% 9.41%					
	Prefered Shares Cost Rate (%)	5.4170		φυ		5.4170					

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- (6) Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- 7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- (8) 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

R	at	te	В	а	s	e

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) (2	\$1,730,430,420	\$5,535,064	\$1,755,985,492	\$ -	\$1,755,985,492
2	Accumulated Depreciation (average) (2	(\$476,047,244)	\$7,576,266	(\$468,470,978)	<u> </u>	(\$468,470,978)
3	Net Fixed Assets (average) (2	\$1,274,403,184	\$13,111,330	\$1,287,514,514	\$ -	\$1,287,514,514
4	Allowance for Working Capital (1	\$102,402,166	\$973,024	\$103,375,190	##########	\$ -
5	Total Rate Base	\$1,376,805,350	\$14,084,354	\$1,390,889,704	##########	\$1,287,514,514

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$101,174,035	\$ -		\$101.174.035	\$ -	\$101,174,035
Cost of Power Working Capital Base		\$1,264,188,174 \$1,365,362,209	\$12,973,656 \$12,973,656		\$1,277,161,830 \$1.378.335.865	\$ - \$ -	\$1,277,161,830 \$1,378,335,865
Working Capital Rate %	(1)	7.50%	0.00%		7.50%	-7.50%	0.00%
Working Capital Allowance		\$102.402.166	\$973.024	=	\$103,375,190	###########	\$

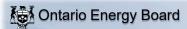
Notes

6

9

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

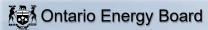
Average of opening and closing balances for the year.



Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$241,253,766	\$563,660	\$241,817,426	\$ -	\$241,817,426
2	Other Revenue (1	\$12,151,392	<u> </u>	\$12,151,392	\$ -	\$12,151,392
3	Total Operating Revenues	\$253,405,158	\$563,660	\$253,968,818	\$ -	\$253,968,818
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$97,800,117 \$60,711,328 \$3,373,918 \$ - \$ -	\$ - (\$126,405) \$ - \$ - \$ -	\$97,800,117 \$60,584,923 \$3,373,918 \$-	\$ - \$ - \$ - \$ - \$ -	\$97,800,117 \$60,584,923 \$3,373,918 \$-
9	Subtotal (lines 4 to 8)	\$161,885,363	(\$126,405)	\$161,758,958	\$ -	\$161,758,958
10	Deemed Interest Expense	\$28,037,264	\$286,814	\$28,324,078	(\$2,105,132)	\$26,218,946
11	Total Expenses (lines 9 to 10)	\$189,922,628	\$160,409	\$190,083,036	(\$2,105,132)	\$187,977,904
12	Utility income before income taxes	\$63,482,530	\$403,251	\$63,885,782	\$2,105,132	\$65,990,914
13	Income taxes (grossed-up)	\$11,659,577	(\$126,883)	\$11,532,694	\$ -	\$11,532,694
14	Utility net income	\$51,822,953	\$530,134	\$52,353,088	\$2,105,132	\$54,458,220
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108 \$12,151,392	\$ - \$ - \$ - \$ -	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108 \$12,151,392	\$-	\$5,910,078 \$1,000,000 \$3,060,205 \$2,181,108 \$12,151,392
		+,,		+		

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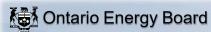
Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$51,822,953	\$52,353,088	\$48,462,046
2	Adjustments required to arrive at taxable utility income	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)
3	Taxable income	\$32,659,681	\$33,189,816	\$29,298,774
	Calculation of Utility income Taxes			
4	Income taxes	\$8,569,789	\$8,476,530	\$8,476,530
6	Total taxes	\$8,569,789	\$8,476,530	\$8,476,530
7	Gross-up of Income Taxes	\$3,089,788	\$3,056,164	\$3,056,164
8	Grossed-up Income Taxes	\$11,659,577	\$11,532,694	\$11,532,694
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$11,659,577	\$11,532,694	\$11,532,694
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

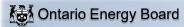
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Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capita	lization Ratio	Cost Rate	Return
		Initial	Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$771,010,996	3.44%	\$26,522,778
2	Short-term Debt	4.00%	\$55,072,214	2.75%	\$1,514,486
3	Total Debt	60.00%	\$826,083,210	3.39%	\$28,037,264
	Equity				
4	Common Equity	40.00%	\$550,722,140	9.41%	\$51,822,953
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$550,722,140	9.41%	\$51,822,953
7	Total	100.00%	\$1,376,805,350	5.80%	\$79,860,218
		Applic	ation Update		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$778,898,234	3.44%	\$26,794,099
2	Short-term Debt	4.00%	\$55,635,588	2.75%	\$1,529,979
3	Total Debt	60.00%	\$834,533,822	3.39%	\$28,324,078
	Equity				
4	Common Equity	40.00%	\$556,355,882	9.41%	\$52,353,088
5 6	Preferred Shares Total Equity	0.00% 40.00%	<u>\$ -</u> \$556,355,882	<u>0.00%</u> 9.41%	\$ <u>\$ -</u> \$52,353,088
0	Total Equity	40.00%	\$330,333,662	9.41%	\$52,553,066
7	Total	100.00%	\$1,390,889,704	5.80%	\$80,677,166
		Per Bo	pard Decision		
		(0/)	(4)	(0/)	(4)
	Debt	(%)	(\$)	(%)	(\$)
8	Long-term Debt	56.00%	\$721,008,128	3.44%	\$24,802,680
9	Short-term Debt	4.00%	\$51,500,581	2.75%	\$1,416,266
10	Total Debt	60.00%	\$772,508,708	3.39%	\$26,218,946
				·	
44	Equity Common Equity	40.000/	¢E4E 00E 00G	0.440/	¢49,469,046
11 12	Preferred Shares	40.00% 0.00%	\$515,005,806 \$ -	9.41% 0.00%	\$48,462,046 \$ -
13	Total Equity	40.00%	\$515,005,806	9.41%	\$48,462,046
14	Total	100.00%	\$1,287,514,514	5.80%	\$74,680,992
<u>Notes</u>					



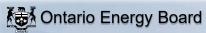
Revenue Deficiency/Sufficiency

		Initial Appli	Initial Application Application Update		Per Board Decision		
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$189,644,373 \$12,151,392	\$54,237,845 \$187,015,921 \$12,151,392	\$189,627,810 \$12,151,392	\$55,199,896 \$186,617,530 \$12,151,392	\$189,627,810 \$12,151,392	\$47,041,835 \$194,775,591 \$12,151,392
4	Total Revenue	\$201,795,765	\$253,405,158	\$201,779,201	\$253,968,818	\$201,779,201	\$253,968,818
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$161,885,363 \$28,037,264 \$189,922,628	\$161,885,363 \$28,037,264 \$189,922,628	\$161,758,958 \$28,324,078 \$190,083,036	\$161,758,958 \$28,324,078 \$190,083,036	\$161,758,958 \$26,218,946 \$187,977,904	\$161,758,958 \$26,218,946 \$187,977,904
9	Utility Income Before Income Taxes	\$11,873,138	\$63,482,530	\$11,696,165	\$63,885,782	\$13,801,297	\$65,990,914
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)	(\$19,163,272)
11	Taxable Income	(\$7,290,134)	\$44,319,258	(\$7,467,107)	\$44,722,510	(\$5,361,975)	\$46,827,642
12 13	Income Tax Rate	26.50% \$ -	26.50% \$11,744,603	26.50% \$ -	26.50% \$11,851,465	26.50% \$ -	26.50% \$12,409,325
14	Income Tax on Taxable Income Income Tax Credits	(\$85,000)	(\$85,000)	(\$85,000)	(\$85,000)	(\$85,000)	(\$85,000)
15	Utility Net Income	\$11,958,138	\$51,822,953	\$11,781,165	\$52,353,088	\$13,886,297	\$54,458,220
16	Utility Rate Base	\$1,376,805,350	\$1,376,805,350	\$1,390,889,704	\$1,390,889,704	\$1,287,514,514	\$1,287,514,514
17	Deemed Equity Portion of Rate Base	\$550,722,140	\$550,722,140	\$556,355,882	\$556,355,882	\$515,005,806	\$515,005,806
18	Income/(Equity Portion of Rate Base)	2.17%	9.41%	2.12%	9.41%	2.70%	10.57%
19	Target Return - Equity on Rate Base	9.41%	9.41%	9.41%	9.41%	9.41%	9.41%
20	Deficiency/Sufficiency in Return on Equity	-7.24%	0.00%	-7.29%	0.00%	-6.71%	1.16%
21	Indicated Rate of Return	2.90%	5.80%	2.88%	5.80%	3.11%	6.27%
22	Requested Rate of Return on Rate Base	5.80%	5.80%	5.80%	5.80%	5.80%	5.80%
23	Deficiency/Sufficiency in Rate of Return	-2.90%	0.00%	-2.92%	0.00%	-2.69%	0.47%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$51,822,953 \$39,864,816 \$54,237,845 (1)	\$51,822,953 \$0	\$52,353,088 \$40,571,923 \$55,199,896 (1)	\$52,353,088 (\$1)	\$48,462,046 \$34,575,749 \$47,041,835 (1)	\$48,462,046 \$5,996,174

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)

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Revenue Requirement Workform (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application	Application Update	Per Board Dec	sion
1	OM&A Expenses	\$97,800,117	\$97,800,117	\$97,80	0,117
2	Amortization/Depreciation	\$60,711,328	\$60,584,923	\$60,58	
3	Property Taxes	\$3,373,918	\$3,373,918	\$3,37	3,918
5	Income Taxes (Grossed up)	\$11,659,577	\$11,532,694	\$11,53	2,694
6	Other Expenses	\$ -			
7	Return				
	Deemed Interest Expense	\$28,037,264	\$28,324,078	\$26,21	8,946
	Return on Deemed Equity	\$51,822,953	\$52,353,088	\$48,46	2,046
•	Service Revenue Requirement				
8	(before Revenues)	\$253,405,158	\$253,968,819	\$247,97	2,644
9	Revenue Offsets	\$12,151,392	\$12,151,392		\$ -
10	Base Revenue Requirement	\$241,253,766	\$241,817,427	\$247,97	
	(excluding Tranformer Owership Allowance credit adjustment)				
11	Distribution revenue	\$241,253,766	\$241,817,426	\$241,81	7.426
12	Other revenue	\$12,151,392	\$12,151,392	\$12,15	
13	Total revenue	\$253,405,158	\$253,968,818	\$253,96	8,818
14	Difference (Total Revenue Less Distribution Revenue Requirement				
	before Revenues)	\$0	(\$1)	⁽¹⁾ \$5,99	6,174 ⁽¹⁾

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

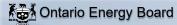
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$253,405,158	\$253,968,819	\$0	\$247,972,644	(\$1)
Deficiency/(Sufficiency)	\$54,237,845	\$55,199,896	\$0	\$47,041,835	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$241,253,766	\$241,817,427	\$0	\$247,972,644	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$51,609,393	\$52,189,616	\$0	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-I** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

Customer Class	
Input the name of each customer class.	Customer / Connections Test Year average or mid-year
Residential	325,15
GS < 50 kW GS > 50 to 1,499 kW GS > 1,500 to 4,999 kW Large Use Street Lighting Sentinel Lighting Unmetered Scattered Load Standby Power	25.84 3,0° 65.56 5 3,32

Initial Application							
Customer / Connections		kWh		kW/kVA ⁽¹⁾			
Test Year average or mid-year		Annual		Annual			
325,150 25,846 3,013 68 11 65,564 55 3,321 3		2,333,345,000 698,161,000 2,844,419,000 684,488,000 572,834,000 19,603,000 47,000 12,195,000		6,838,752 1,521,105 1,050,683 54,373 132 7,440			

Application Update								
Customer / Connections	kWh	kW/kVA ⁽¹⁾						
Test Year average or mid-year	Annual	Annual						
325,150 25,846 3,013 68 11 65,564 55 3,321 3	2,333,198,000 697,774,000 2,841,988,000 684,409,000 19,603,000 47,000 12,195,000	6,838,407 1,519,896 1,050,683 54,374 132 7,440						

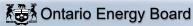
Application Undate

Per Board Decision							
Customer / Connections		kWh	kW/kVA (1)				
Test Year average or mid-year		Annual	Annual				

Total 7,165,092,000 9,472,485 7,162,048,000 9,470,932 - -

Notes

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)	 s Allocated from vious Study (1)	%	Allocated Class Revenue Requirement		%
From Sheet 10. Load Forecast				(1) (7A)	
Residential	\$ 107,281,788	53.50%	\$	140,076,506	55.16%
GS < 50 kW	\$ 20,646,221	10.30%	\$	25,366,577	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	63,126,959	24.86%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	13,311,223	5.24%
Large Use	\$ 8,063,832	4.02%	\$	10,263,257	4.04%
Street Lighting	\$ 1,811,439	0.90%	\$	1,151,838	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,566	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	645,347	0.25%
Standby Power	\$ 70,655	0.04%	\$	15,546	0.01%
Total	\$ 200,544,060	100.00%	\$	253,968,818	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	253,968,818.71	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	LF X current proved rates X (1+d)	LF X	Proposed Rates	ľ	Miscellaneous Revenues
	(7B)	(7C)		(7D)		(7E)
1 Residential	\$ 132,817,272	\$ 136,684,348	\$	136,680,054	\$	8,916,019
QS < 50 kW	\$ 28,302,418	\$ 29,340,369	\$	29,333,599	\$	1,086,890
GS > 50 to 1,499 kW	\$ 50,899,748	\$ 52,480,738	\$	52,481,058	\$	1,538,907
GS > 1,500 to 4,999 kW	\$ 12,663,558	\$ 12,714,983	\$	12,714,911	\$	300,625
Large Use	\$ 8,566,632	\$ 8,559,296	\$	8,559,248	\$	211,532
Street Lighting	\$ 1,269,384	\$ 1,323,574	\$	1,322,985	\$	57,121
Sentinel Lighting	\$ 6,843	\$ 7,102	\$	7,691	\$	972
Unmetered Scattered Load	\$ 643,483	\$ 683,190	\$	682,993	\$	38,846
Standby Power 2 2 3 4 5 6 7 7	\$ 22,947	\$ 23,826	\$	23,827	\$	479
Total	\$ 235,192,284	\$ 241,817,426	\$	241,806,366	\$	12,151,392

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.94%	103.94%	85 - 115
GS < 50 kW	118.23%	119.95%	119.92%	80 - 120
GS > 50 to 1,499 kW	86.34%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	98.24%	97.78%	97.78%	80 - 120
Large Use	85.36%	85.46%	85.46%	85 - 115
Street Lighting	80.00%	119.87%	119.82%	80 - 120
Sentinel Lighting	76.00%	69.81%	74.91%	80 - 120
Unmetered Scattered Load	118.72%	111.88%	111.85%	80 - 120
Standby Power	21.03%	156.35%	156.35%	80 - 120
•				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

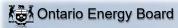
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	ed Revenue-to-Cost Ratio		Policy Range
	Test Year	Price Cap IR F	Period	, ,
	2021	2022	2023	
Residential	103.94%	103.94%	103.94%	85 - 115
GS < 50 kW	119.92%	119.92%	119.92%	80 - 120
GS > 50 to 1,499 kW	85.57%	85.57%	85.57%	80 - 120
GS > 1,500 to 4,999 kW	97.78%	97.78%	97.78%	80 - 120
Large Use	85.46%	85.46%	85.46%	85 - 115
Street Lighting	119.82%	119.82%	119.82%	80 - 120
Sentinel Lighting	74.91%	74.91%	74.91%	80 - 120
Unmetered Scattered Load	111.85%	111.85%	111.85%	80 - 120
Standby Power	156.35%	156.35%	156.35%	80 - 120

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for R	esident	ial Class					
Customers		325,150					
kWh		2,333,198,000					
Proposed Residential Class Specific Revenue	\$	136,680,054.00					
Requirement ¹							
<u> </u>	1 maintenance						
Residential Base Rates on Current Tariff							
Monthly Fixed Charge (\$)	\$	35.03					
Distribution Volumetric Rate (\$/kWh)	\$	-					

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	35.03	325,150	\$ 136,680,054.00	100.00%
Variable	0	2,333,198,000	\$ -	0.00%
TOTAL	-	=	\$ 136,680,054.00	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	0

	Т	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	136,680,054.00	35.03	\$ 136,680,054.00
Variable	\$	-	0	\$ -
TOTAL	\$	136,680,054.00	-	\$ 136,680,054.00

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$ -	-	

Checks ³	
Change in Fixed Rate	
Difference Between Revenues @ Proposed Rates	
and Class Specific Revenue Requirement	

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\particle{4}/year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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Revenue Requirement-Workform (RRWF) for 2020 Filers

Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process:		,	Application Update		Cla	ss Allocated Rever	nues					Dist	ribution Rates		F	Revenue Reconciliation	on
	Customer and Load Forecast Fr				From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design			Fixed / Variable Splits ² Percentage to be entered as a fraction between 0 and 1									
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Ser	No. of decimals	Volum	netric Rate No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential S	KWh KVH KW KW KW KW KW KW	325,150 25,846 3,013 68 111 65,564 3,321 3	2,333,198,000 697,774,000 2,841,988,000 684,409,000 19,603,000 47,000 12,195,000	6,838,407 1,519,896 1,050,683 54,374 132 7,440	\$ 136,680,054 \$ 29,333,599 \$ 52,481,058 \$ 12,714,911 \$ 8,559,248 \$ 1,322,985 \$ 7,691 \$ 682,993 \$ 23,827	\$ 136,680,054 \$ 7,491,801 \$ 8,335,829 \$ 3,625,110 \$ 2,099,468 \$ 889,046 \$ 3,967 \$ 280,505 \$ 6,750	\$ 21,841,797 \$ 44,145,229 \$ 9,089,801 \$ 6,459,780 \$ 433,939 \$ 3,725 \$ 402,488 \$ 17,077	100.00%, 25.84%, 15.84%, 15.84%, 15.84%, 24.53%, 67.20%, 51.57%, 41.07%, 28.33%	0.00% 74.46% 84.12% 71.49% 75.47% 32.80% 48.43% 58.93% 71.67%	\$ 344,016 \$ 398,000 \$ 316,495	\$35.0 \$24.1 \$230.5 \$4,442.5 \$15,905.0 \$1.1 \$6.0 \$7.0 \$187.4	5 5 4 3 3 1	\$0.0313 \$6.5058 \$6.2424 \$6.4494 \$7.9806 \$28.2183 \$0.0330	JRAWIh 4 JRAWIH JRA	######################################	\$21,840,326,2000 \$44,489,308,2006 \$44,489,308,2006 \$5,477,6274,9402 \$6,477,6274,9402 \$1,776,274,94042 \$1,724,8156 \$433,937,746,274,9402 \$5,724,8156 \$5,05,05,05,05,05,05,05,05,05,05,05,05,05	######################################
							Т	otal Transformer Ow	nership Allowance	\$ 1,058,511			Rates recover re	venue requirement	Total Distribution Re		************
· Di											Difference % Difference		-\$ 11,060.62 -0.005%				

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

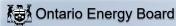
Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

Summary of Proposed Changes

Γ			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Ope	erating Expense	es	Revenue Requirement			
F	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
		Original Application	\$ 79,860,218				\$ 102,402,166				\$ 253,405,158			
		Updated Application for 2019 Actuals	\$ 80,677,166	5.80%	\$1,390,889,704	\$1,378,335,865	\$ 103,375,190	\$ 60,584,923	\$ 11,532,694	\$ 97,800,117	\$ 253,968,819	\$ 12,151,392	\$ 241,817,427	\$ 55,199,896





Version 9.00

Utility Name Hydro Ottawa Limited

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2025

Bridge Year

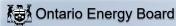
Last Rebasing Year 2016

The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final onnes at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

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While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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Version 9.00

Service Territory

Assigned EB Number EB-2019-0261

Name and Title Gregory Van Dusen, Director, Regulatory Affairs

Phone Number 613-738-5499 ext 7472

Email Address RegulatoryAffairs@HydroOttawa.com

Test Year 2025

Bridge Year

Last Rebasing Year 2016

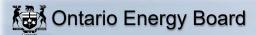
The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

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Revenue Requirement Workform (RRWF) for 2020 Filers

1. Info 8. Rev Def Suff

2. Table of Contents 9. Rev Reqt

3. Data Input Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

5. Utility Income 12. Residential Rate Design

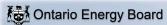
6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost_of_Capital 14. Tracking Sheet

Notes:

(1) Pa	ile green	cells repres	sent inputs
----	------	-----------	--------------	-------------

- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



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Data Input (1)

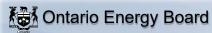
	_	Initial Application	(2)	Adjustments	_	Application Update	(6)	Adjustments	Per Board Decision	
1	Rate Base									
	Gross Fixed Assets (average)	\$1,850,890,773		\$5,535,064		\$1,856,425,837			\$1,856,425,837	
	Accumulated Depreciation (average)	(\$537,205,937)	(5)	\$7,702,671		(\$529,503,266)			(\$529,503,266	i)
	Allowance for Working Capital:	0100 710 500				A 100 710 500			#400 740 F00	
	Controllable Expenses Cost of Power	\$103,713,503 \$1,310,655,495		\$12,955,221		\$ 103,713,503 \$1,323,610,716			\$103,713,503 \$1,323,610,716	
	Working Capital Rate (%)	7.50%	(9)	\$0		7.50%	(9)		ψ1,323,010,710	(9)
2	Utility Income Operating Revenues:									
	Distribution Revenue at Current Rates	\$190.581.980		(\$15,383)		\$190.566.597				
	Distribution Revenue at Proposed Rates Other Revenue:	\$247,596,176		\$621,157		\$248,217,333				
	Specific Service Charges	\$6,212,623		\$0		\$6,212,623				
	Late Payment Charges	\$1,000,000		\$0		\$1,000,000				
	Other Distribution Revenue	\$3,162,990		\$0		\$3,162,990				
	Other Income and Deductions	\$2,081,096		\$0		\$2,081,096				
	Total Revenue Offsets	\$12,456,709	(7)	\$0		\$12,456,709				
	Operating Expenses:									
	OM+A Expenses	\$100,254,900				\$ 100,254,900			\$100,254,900)
	Depreciation/Amortization	\$64,026,637		(\$126,405)		\$ 63,900,232			\$63,900,232	
	Property taxes	\$3,458,604				\$ 3,458,604			\$3,458,604	
	Other expenses									
3	Taxes/PILs									
	Taxable Income:									
	Adjustments required to arrive at taxable income	(\$32,076,354)	(3)	\$0		(\$32,076,354)				
	Utility Income Taxes and Rates:									
	Income taxes (not grossed up)	\$5,651,577		(\$73,041)		\$5,578,536				
	Income taxes (grossed up)	\$7,689,220		(, ,,, ,		\$7,589,845				
	Federal tax (%)	15.00%		\$0		15.00%				
	Provincial tax (%)	11.50%		\$0		11.50%				
	Income Tax Credits	(\$85,000)		\$0		(\$85,000)				
4	Capitalization/Cost of Capital Capital Structure:									
	Long-term debt Capitalization Ratio (%)	56.0%		\$0		56.0%				
	Short-term debt Capitalization Ratio (%)	4.0%	(8)	\$0		4.0%	(8)			(8)
	Common Equity Capitalization Ratio (%)	40.0%		\$0		40.0%				
	Prefered Shares Capitalization Ratio (%)	100.00/				400.00/				
		100.0%				100.0%				
	Cost of Capital									
	Long-term debt Cost Rate (%)	3.69%		\$0		3.69%				
	Short-term debt Cost Rate (%)	2.75%		\$0		2.75%				
	Common Equity Cost Rate (%)	9.46%		\$0		9.46%				
	Prefered Shares Cost Rate (%)									

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- (6) Select option from drop-down list by clicking on cell M12. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- [7] Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- (8) 4.0% unless an Applicant has proposed or been approved for another amount.
- (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

Rate Base

Line No.	Particulars	-	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1 2 3	Gross Fixed Assets (average) Accumulated Depreciation (average) Net Fixed Assets (average)	(2) (2) (2)	\$1,850,890,773 (\$537,205,937) \$1,313,684,836	\$5,535,064 \$7,702,671 \$13,237,735	\$1,856,425,837 (\$529,503,266) \$1,326,922,571	\$ - \$ - \$ -	\$1,856,425,837 (\$529,503,266) \$1,326,922,571
4	Allowance for Working Capital	(1)	\$106,077,675	\$971,642	\$107,049,316	#########	\$-
5	Total Rate Base	•	\$1,419,762,511	\$14,209,377	\$1,433,971,887	###############	\$1,326,922,571

(1) Allowance for Working Capital - Derivation

Controllable Expenses		\$103,713,503		\$ -	\$103,713,503	\$ -	\$103,713,503
Cost of Power		\$1,310,655,495		\$12,955,221	\$1,323,610,716	\$ -	\$1,323,610,716
Working Capital Base		\$1,414,368,998		\$12,955,221	\$1,427,324,219	\$ -	\$1,427,324,219
Working Capital Rate %	(1)	7.50%		0.00%	7.50%	-7.50%	0.00%
			_				
Working Capital Allowance		\$106,077,675	-	\$971,642	\$107,049,316	#######################################	\$ -

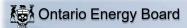
Notes

6 7

9

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2020 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.

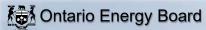


Utility Income

Line No.	Particulars	Initial Application	Adjustments	Application Update	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$247,596,176	\$621,157	\$248,217,333	\$ -	\$248,217,333
2	Other Revenue (1	\$12,456,709	<u> </u>	\$12,456,709	\$ -	\$12,456,709
3	Total Operating Revenues	\$260,052,885	\$621,157	\$260,674,042	\$-	\$260,674,042
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$100,254,900 \$64,026,637 \$3,458,604 \$- \$-	\$- (\$126,405) \$- \$- \$-	\$100,254,900 \$63,900,232 \$3,458,604 \$-	\$ - \$ - \$ - \$ - \$ -	\$100,254,900 \$63,900,232 \$3,458,604 \$ -
9	Subtotal (lines 4 to 8)	\$167,740,140	(\$126,405)	\$167,613,735	\$ -	\$167,613,735
10	Deemed Interest Expense	\$30,899,711	\$309,253	\$31,208,964	(\$2,329,821)	\$28,879,143
11	Total Expenses (lines 9 to 10)	\$198,639,852	\$182,848	\$198,822,700	(\$2,329,821)	\$196,492,878
12	Utility income before income taxes	\$61,413,034	\$438,309	\$61,851,343	\$2,329,821	\$64,181,164
13	Income taxes (grossed-up)	\$7,689,220	(\$99,376)	\$7,589,845	\$ -	\$7,589,845
14	Utility net income	\$53,723,813	\$537,684	\$54,261,498	\$2,329,821	\$56,591,319
<u>Notes</u>	Other Revenues / Reven	ue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions Total Revenue Offsets	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096	\$ - \$ - \$ - \$ -	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096	\$-	\$6,212,623 \$1,000,000 \$3,162,990 \$2,081,096

May 5, 2020

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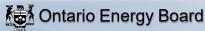
Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application	Application Update	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$53,723,813	\$54,261,496	\$50,210,750
2	Adjustments required to arrive at taxable utility income	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)
3	Taxable income	\$21,647,459	\$22,185,142	\$18,134,396
	Calculation of Utility income Taxes			
4	Income taxes	\$5,651,577	\$5,578,536	\$5,578,536
6	Total taxes	\$5,651,577	\$5,578,536	\$5,578,536
7	Gross-up of Income Taxes	\$2,037,643	\$2,011,309	\$2,011,309
8	Grossed-up Income Taxes	\$7,689,220	\$7,589,845	\$7,589,845
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$7,689,220	\$7,589,845	\$7,589,845
10	Other tax Credits	(\$85,000)	(\$85,000)	(\$85,000)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

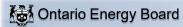
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Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capita	alization Ratio	Cost Rate	Return
		Initia	I Application		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$795,067,006	3.69%	\$29,337,973
2	Short-term Debt	4.00%	\$56,790,500	2.75%	\$1,561,739
3	Total Debt	60.00%	\$851,857,507	3.63%	\$30,899,711
			, , , , , , , , , , , , , , , , , , , ,		***************************************
	Equity				
4	Common Equity	40.00%	\$567,905,004	9.46%	\$53,723,813
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$567,905,004	9.46%	\$53,723,813
7	Total	100.00%	\$1,419,762,511	5.96%	\$84,623,525
•	Total	100.00%	ψ1,110,702,011	0.0070	ΨΟ 1,020,020
		Applic	cation Update		
	Debt	(%)	(\$)	(%)	(\$)
1	Long-term Debt	56.00%	\$803,024,257	3.69%	\$29,631,595
2	Short-term Debt	4.00%	\$57,358,875	2.75%	\$1,577,369
3	Total Debt	60.00%	\$860,383,132	3.63%	\$31,208,964
	Equity				
4	Common Equity	40.00%	\$573,588,755	9.46%	\$54,261,496
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$573,588,755	9.46%	\$54,261,496
7	Total	100.00%	\$1,433,971,887	5.96%	\$85,470,460
		Per Bo	oard Decision		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(4)	(70)	(Ψ)
8	Long-term Debt	56.00%	\$743,076,640	3.69%	\$27,419,528
9	Short-term Debt	4.00%	\$53,076,903	2.75%	\$1,459,615
10	Total Debt	60.00%	\$796,153,543	3.63%	\$28,879,143
				·	
	Equity				
11	Common Equity	40.00%	\$530,769,028	9.46%	\$50,210,750
12	Preferred Shares	0.00%	<u> </u>	0.00%	\$ -
13	Total Equity	40.00%	\$530,769,028	9.46%	\$50,210,750
14	Total	100.00%	\$1,326,922,571	5.96%	\$79,089,893
Natas					
<u>Notes</u>					

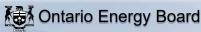


Revenue Deficiency/Sufficiency

		Initial Appli	cation	Application	Update	Per Board D	Decision
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net Total Revenue	\$190,581,980 \$12,456,709 \$203,038,689	\$66,993,165 \$180,603,011 \$12,456,709 \$260,052,885	\$190,566,597 \$12,456,709 \$203,023,306	\$67,994,408 \$180,222,925 \$12,456,709 \$260,674,042	\$190,566,597 \$12,456,709 \$203,023,306	\$59,313,363 \$188,903,970 \$12,456,709 \$260,674,042
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$167,740,140 \$30,899,711 \$198,639,852	\$167,740,140 \$30,899,711 \$198,639,852	\$167,613,735 \$31,208,964 \$198,822,700	\$167,613,735 \$31,208,964 \$198,822,700	\$167,613,735 \$28,879,143 \$196,492,878	\$167,613,735 \$28,879,143 \$196,492,878
9	Utility Income Before Income Taxes	\$4,398,837	\$61,413,034	\$4,200,607	\$61,851,343	\$6,530,428	\$64,181,164
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)	(\$32,076,354)
11	Taxable Income	(\$27,677,517)	\$29,336,680	(\$27,875,747)	\$29,774,989	(\$25,545,926)	\$32,104,810
12 13	Income Tax Rate	26.50% \$ -	26.50% \$7,774,220	26.50% \$ -	26.50% \$7,890,372	26.50% \$ -	26.50% \$8,507,775
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	(\$85,000) \$4,483,837	(\$85,000) \$53,723,813	(\$85,000) \$4,285,607	(\$85,000) \$54,261,498	(\$85,000) \$6,615,428	(\$85,000) \$56,591,319
16	Utility Rate Base	\$1,419,762,511	\$1,419,762,511	\$1,433,971,887	\$1,433,971,887	\$1,326,922,571	\$1,326,922,571
17	Deemed Equity Portion of Rate Base	\$567,905,004	\$567,905,004	\$573,588,755	\$573,588,755	\$530,769,028	\$530,769,028
18	Income/(Equity Portion of Rate Base)	0.79%	9.46%	0.75%	9.46%	1.25%	10.66%
19	Target Return - Equity on Rate Base	9.46%	9.46%	9.46%	9.46%	9.46%	9.46%
20	Deficiency/Sufficiency in Return on Equity	-8.67%	0.00%	-8.71%	0.00%	-8.21%	1.20%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	2.49% 5.96%	5.96% 5.96%	2.48% 5.96%	5.96% 5.96%	2.67% 5.96%	6.44% 5.96%
23	Deficiency/Sufficiency in Rate of Return	-3.47%	0.00%	-3.49%	0.00%	-3.29%	0.48%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$53,723,813 \$49,239,976 \$66,993,165 (1)	\$53,723,813 (\$0)	\$54,261,496 \$49,975,890 \$67,994,408 (1)	\$54,261,496 \$1	\$50,210,750 \$43,595,322 \$59,313,363 (1)	\$50,210,750 \$6,380,569

Notes:

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement Workform May 5, 2020 Page 10 of 18 (RRWF) for 2020 Filers

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Revenue Requirement

Line No.	Particulars	Application		Application Update		Per Board Decision	
1	OM&A Expenses	\$100,254,900		\$100,254,900		\$100,254,900	
2	Amortization/Depreciation	\$64,026,637		\$63,900,232		\$63,900,232	
3	Property Taxes	\$3,458,604		\$3,458,604		\$3,458,604	
5	Income Taxes (Grossed up)	\$7,689,220		\$7,589,845		\$7,589,845	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$30,899,711		\$31,208,964		\$28,879,143	
	Return on Deemed Equity	\$53,723,813		\$54,261,496		\$50,210,750	
8	Service Revenue Requirement						
	(before Revenues)	\$260,052,886		\$260,674,041		\$254,293,473	
9	Revenue Offsets	\$12,456,709		\$12,456,709		\$ -	
10	Base Revenue Requirement	\$247,596,177		\$248,217,332		\$254,293,473	
	(excluding Tranformer Owership Allowance credit adjustment)			*************************************			
11	Distribution revenue	\$247.596.176		\$248.217.333		\$248.217.333	
12	Other revenue	\$12,456,709		\$12,456,709		\$12,456,709	
13	Total revenue	\$260,052,885		\$260,674,042		\$260,674,042	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)	(1)	\$1	(1)	\$6,380,569	(1)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

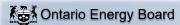
	Application	Application Update	Δ% (2)	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$260,052,886	\$260,674,041	\$0	\$254,293,473	(\$1)
Deficiency/(Sufficiency)	\$66,993,165	\$67,994,408	\$0	\$59,313,363	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$247,596,177	\$248,217,332	\$0	\$254,293,473	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement	\$57,014,196	\$57,650,736	\$0	\$ -	(\$1)

Notes (1)

Line 11 - Line 8

Percentage Change Relative to Initial Application

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Revenue Requirement Workform (RRWF) for 2020 Filers

Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-Is** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Application Update

Customer Class	
Input the name of each customer class.	
D. Market	
Residential	
GS < 50 kW	
GS > 50 to 1,499 kW	
GS > 1,500 to 4,999 kW	
Large Use	
Street Lighting	
Sentinel Lighting	
Unmetered Scattered Load	
Standby Power	

	In	itial Application	
Customer /		kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year		Annual	Annual
327,975 25,987 2,976 68 11 66,484 55 3,321 3		2,353,299,000 696,245,000 2,845,454,000 683,614,000 570,390,000 18,854,000 47,000 11,728,000	6,831,218 1,519,514 1,046,964 52,530 132 7,440

	Application opuate	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual
327,975 25,987 2,976 68 11 66,484 55 3,321 3	2,353,149,000 695,837,000 2,842,881,000 683,532,000 570,390,000 18,854,000 47,000 11,728,000	6,831,256 1,518,291 1,046,964 52,530 132 7,440

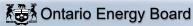
Application Update

	Per Board Decision								
Customer / Connections	kWh	kW/kVA (1)							
Test Year average or mid-year	Annual	Annual							

Total 7,179,631,000 9,457,798 7,176,418,000 9,456,613 - -

Notes

⁽¹⁾ Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process: Application Update

A) Allocated Costs

Name of Customer Class (3)	 s Allocated from vious Study (1)	%	-	Allocated Class enue Requirement	%
From Sheet 10. Load Forecast				(1) (7A)	
Residential	\$ 107,281,788	53.50%	\$	143,774,772	55.16%
GS < 50 kW	\$ 20,646,221	10.30%	\$	26,036,299	9.99%
GS > 50 to 1,499 kW	\$ 48,750,762	24.31%	\$	64,793,622	24.86%
GS > 1,500 to 4,999 kW	\$ 13,365,246	6.66%	\$	13,662,663	5.24%
Large Use	\$ 8,063,832	4.02%	\$	10,534,225	4.04%
Street Lighting	\$ 1,811,439	0.90%	\$	1,182,248	0.45%
Sentinel Lighting	\$ 6,568	0.00%	\$	11,871	0.00%
Unmetered Scattered Load	\$ 547,549	0.27%	\$	662,386	0.25%
Standby Power	\$ 70,655	0.04%	\$	15,956	0.01%
Total	\$ 200,544,060	100.00%	\$	260,674,042	100.00%
		Service Revenue Requirement (from Sheet 9)	\$	260,674,040.72	

- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.
- (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible.

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B) Calculated Class Revenues

Name of Customer Class	Load Forecast (LF) X current approved rates		LF X current approved rates X (1+d)		LF X Proposed Rates		Miscellaneous Revenues	
	(7B)		(7C)		(7D)		(7E)	
1 Residential	\$ 137,867,571	\$	140,306,530	\$	140,307,705	\$	9,140,043	
GS < 50 kW	\$ 29,313,849	\$	30,110,803	\$	30,076,336	\$	1,114,200	
GS > 50 to 1,499 kW	\$ 52,676,187	\$	53,871,028	\$	53,870,770	\$	1,577,574	
GS > 1,500 to 4,999 kW	\$ 13,102,892	\$	13,051,573	\$	13,051,553	\$	308,178	
Large Use	\$ 8,851,758	\$	8,785,889	\$	8,785,857	\$	216,847	
Street Lighting	\$ 1,320,744	\$	1,358,049	\$	1,357,443	\$	58,556	
Sentinel Lighting	\$ 7,691	\$	7,896	\$	8,500	\$	996	
Unmetered Scattered Load	\$ 667,582	\$	701,107	\$	701,468	\$	39,823	
Standby Power	\$ 23,827	\$	24,457	\$	24,458	\$	491	
Total	\$ 243,832,101	\$	248,217,333	\$	248,184,089	\$	12,456,709	

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each.
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.
- (7) Column 7E If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,

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C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2016			
	%	%	%	%
Residential	104.29%	103.94%	103.95%	85 - 115
QS < 50 kW	118.23%	119.93%	119.80%	80 - 120
3 GS > 50 to 1,499 kW	86.34%	85.58%	85.58%	80 - 120
4 GS > 1,500 to 4,999 kW	98.24%	97.78%	97.78%	80 - 120
Large Use	85.36%	85.46%	85.46%	85 - 115
Street Lighting	80.00%	119.82%	119.77%	80 - 120
Sentinel Lighting	76.00%	74.91%	80.00%	80 - 120
Unmetered Scattered Load	118.72%	111.86%	111.91%	80 - 120
Standby Power	21.03%	156.36%	156.36%	80 - 120
2				
3				
Į.				
5				
6				
,				
3				

⁽⁸⁾ Previously Approved Revenue-to-Cost (R/C) Ratios - For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.

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⁽⁹⁾ Status Quo Ratios - The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".

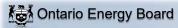
⁽¹⁰⁾ Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Policy Range			
	Test Year	Price Cap IR F	Period	, ,	
	2021	2022	2023		
Residential	103.95%	103.95%	103.95%	85 - 115	
GS < 50 kW	119.80%	119.80%	119.80%	80 - 120	
GS > 50 to 1,499 kW	85.58%	85.58%	85.58%	80 - 120	
GS > 1,500 to 4,999 kW	97.78%	97.78%	97.78%	80 - 120	
Large Use	85.46%	85.46%	85.46%	85 - 115	
Street Lighting	119.77%	119.77%	119.77%	80 - 120	
Sentinel Lighting	80.00%	80.00%	80.00%	80 - 120	
Unmetered Scattered Load	111.91%	111.91%	111.91%	80 - 120	
Standby Power	156.36%	156.36%	156.36%	80 - 120	
-					

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2020 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2021 and 2022 Price Cap IR models, as necessary. For 2021 and 2022, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2019 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

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New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class										
Customers		327,975								
kWh		2,353,149,000								
-										
Proposed Residential Class Specific Revenue	\$	140,307,705.00								
Requirement ¹										
-										
Residential Base Rates on Curr	ent Ta	riff								
Monthly Fixed Charge (\$)	\$	35.65								
Distribution Volumetric Rate (\$/kWh)	\$	-								

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	35.65	327,975	\$ 140,307,705.00	100.00%
Variable	0	2,353,149,000	\$ -	0.00%
TOTAL	=	=	\$ 140,307,705.00	=

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	0

	To	est Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split		Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$	140,307,705.00	35.65	\$	140,307,705.00
Variable	\$	-	0	\$	-
TOTAL	\$	140,307,705.00	-	\$	140,307,705.00

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	ı	\$ -	ı	

Checks ³									
Change in Fixed Rate									
Difference Between Revenues @ Proposed Rates									
and Class Specific Revenue Requirement									

Notes

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. The change in residential rate design is almost complete and distributors should have either 0 or 1 year remaining. If the distributor has fully transitioned to fixed rates put "0" in cell D40. If the distributor has proposed an additional transition year because the change in the residential rate design will result in the fixed charge increasing by more than \$4\/\text{year, put "1" in cell D40.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)

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Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxes/PILs, etc.

Stage in Process: Application Update					Cla	ss Allocated Rever	nues					Dist	ribution Rates			Revenue Reconciliation	on
	Customer and Load Forecast			11. Cost Allocation esidential Rate Des		Fixed / Vari	be entered as a										
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (\$)	Monthly Ser	vice Charge No. of decimals	Volu	metric Rate No. of decimal	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential 2 GS + 50 hW 3 GS + 50 hW 4 GS + 1,500 hW 5 LS + 50 hV 1,499 kW 5 Large Use 6 Sheet Lighting 7 Sentinel Lighting 8 Unmeleted Scattered Load 9 Standby Power 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RAWITH	327,975 25,987 2,976 68 111 66,484 3	2,353,149,000 695,537,000 2,842,881,000 683,532,000 7570,390,000 18,854,000 11,728,000	6,831,256 1,518,291 1,046,964 52,530 132 7,440	\$ 140,307,735 \$ 30,076,336 \$ 53,870,770 \$ 13,051,553 \$ 8,795,857 \$ 1,357,443 \$ 8,500 \$ 701,468 \$ 24,458	\$ 140,307,705 \$ 7,738,641 \$ 8,420,001 \$ 3,625,114 \$ 2,099,465 \$ 925,460 \$ 4,382 \$ 294,687 \$ 6,928	\$ 22,337,695 \$ 45,450,769 \$ 9,426,438 \$ 6,686,325 \$ 431,983 \$ 4,118 \$ 406,781 \$ 17,529	100.00%, 25.73%, 15.63%, 17.78%, 27.78%, 23.90%, 68.18%, 51.56%, 42.01%, 28.33%	0.00% 74.27% 84.37% 72.22% 76.10% 31.92% 48.44% 57.99% 71.67%	\$ 288,080 \$ 333,286 \$ 265,034	\$35.66 \$24.8: \$235.7; \$4.442.5: \$15.905.0: \$1.6: \$6.6: \$7.3: \$192.4:		\$0.0321 \$6.6955 \$6.4281 \$6.6396 \$8.2236 \$31.1964 \$0.0347	A BOOTH A BOOTH BO	######################################	\$ 22.336,367.7000 \$46,736,674.5480 \$45,736,674.5480 \$45,759,756,756 \$41,957,422,1744 \$40,961,961,422,1744 \$5,51,422,1744 \$40,961,961,962,962 \$17,529,3840 \$5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,	######################################
	То								nership Allowance	\$ 886,400			Rates recover re	evenue requirement	Total Distribution R		*************
Notes: 1 Transformer Ownership Allowance is	entered as a positive a	amount, and only fo	r those classes to wh	nich it applies.									TALOS TODOVOI TO	oronae requirement	Difference % Difference		-\$ 33,245.70 -0.013%

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies

The Fixed/Variable split, for each customer class, drives the "rate generator" portion of this sheet of the RRWF. Only the "fixed" fraction is entered, as the sum of the "fixed" and "variable" portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the "fixed" ratio is calcutated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



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Tracking Form

The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

Summary of Proposed Changes

ſ			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Оре	erating Expense	es	Revenue Requirement			
F	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base Working Capi		Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs OM&A		Service Revenue Requirement	Other Revenues		
		Original Application	\$ 84,623,525	5.96%	\$1,419,762,511	\$ 1,414,368,998	\$ 106,077,675	\$ 64,026,637	\$ 7,689,220	\$ 100,254,900	\$ 260,052,886	\$ 12,456,709	\$ 247,596,177	\$ 66,993,165
1		Updated for 2019 Actuals Change	\$ 85,470,460 \$ 846,936		\$1,433,971,887 \$14,209,377	\$1,427,324,219 \$12,955,221					\$ 260,674,041 \$ 621,155			\$ 67,994,408 \$ 1,001,243

⁽²⁾ Short description of change, issue, etc.