

Version 9.00

Utility Name	Greater Sudbury Hydro Inc.	
Service Territory	Sudbury & West Nipissing	
Assigned EB Number	EB-2019-0037	
Name and Title	Tiija Luttrell, Supervisor - Regulatory	
Phone Number	705-675-0514	
Email Address	tiija.luttrell@gsuinc.ca	
Test Year	2020	
Bridge Year	<u>2019</u>	
Last Rebasing Year	2013	

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 disgn 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.

Revenue Requirement Workform (RRWF) for 2020 Filers

<u>1. Info</u>	<u>8. Rev_Def_Suff</u>
2. Table of Contents	9. Rev_Reqt
3. Data Input_Sheet	10. Load Forecast
<u>4. Rate_Base</u>	11. Cost Allocation
5. Utility Income	12. Residential Rate Design
<u>6. Taxes_PILs</u>	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.

Data Input⁽¹⁾

		Initial Application	(2)				(6)	_	Per Board Decision	
1	Rate Base Gross Fixed Assets (average) Accumulated Depreciation (average) Allowance for Working Capital:	\$224,592,770 (\$125,914,513)	(5)			224,592,770 125,914,513)			\$224,592,770 (\$125,914,513)	
	Controllable Expenses Cost of Power Working Capital Rate (%)	\$17,657,760 \$101,557,555 7.50%	(9)		\$ \$	17,657,760 101,557,555	(9)		\$17,657,760 \$101,557,555	(9)
2	Utility Income Operating Revenues:									
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates Other Revenue:	\$23,125,601 \$27,396,127								
	Other Nevenue. Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$219,234 \$156,800 \$1,534,028 (\$351,690)								
	Total Revenue Offsets	\$1,558,372	(7)							
	Operating Expenses:									
	OM+A Expenses Depreciation/Amortization Property taxes Other expenses	\$17,388,957 \$4,404,633 \$268,803			\$ \$ \$	17,388,957 4,404,633 268,803			\$17,388,957 \$4,404,633 \$268,803	
3	Taxes/PILs Taxable Income:									
	Adjustments required to arrive at taxable income	(\$2,728,592)	(3)							
	Utility Income Taxes and Rates: Income taxes (not grossed up)	\$301,331								
	Income taxes (grossed up) Federal tax (%)	\$409,974 15.00%		\$0		15.00%		\$0	15.00%	
	Provincial tax (%) Income Tax Credits	11.50%		\$0 \$0		11.50%		\$0 \$0	11.50%	
4	Capitalization/Cost of Capital Capital Structure:									
	Long-term debt Capitalization Ratio (%) Short-term debt Capitalization Ratio (%) Common Equity Capitalization Ratio (%)	56.0% 4.0% 40.0%	(8)				(8)			(8)
	Prefered Shares Capitalization Ratio (%)	100.0%								
	Cost of Capital									
	Long-term debt Cost Rate (%) Short-term debt Cost Rate (%) Common Equity Cost Rate (%) Prefered Shares Cost Rate (%)	4.14% 2.82% 8.98%								

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 (%)
 - (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
 - ⁽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.

Revenue Requirement Workform (RRWF) for 2020 Filers

Rate Base and Working Capital

	Rate Base							
Line No.	Particulars	-	Initial Application					Per Board Decision
1	Gross Fixed Assets (average)	(2)	\$224,592,770	\$ -		\$224,592,770	\$ -	\$224,592,770
2	Accumulated Depreciation (average)	(2)	(\$125,914,513)	\$ -		(\$125,914,513)	\$ -	(\$125,914,513)
3	Net Fixed Assets (average)	(2)	\$98,678,257	\$ -		\$98,678,257	\$ -	\$98,678,257
4	Allowance for Working Capital	(1)	\$8,941,149	(\$8,941,149)	-	<u> </u>	<u> </u>	<u> </u>
5	Total Rate Base	-	\$107,619,406	(\$8,941,149)	=	\$98,678,257	<u> </u>	\$98,678,257

(1) Allowance for Working Capital - Derivation

6	Controllable Expenses		\$17,657,760	\$ -	\$17,657,760	\$ -	\$17,657,760
7	Cost of Power		\$101,557,555	\$ -	\$101,557,555	\$ -	\$101,557,555
8	Working Capital Base		\$119,215,315	\$ -	\$119,215,315	\$ -	\$119,215,315
9	Working Capital Rate %	(1)	7.50%	-7.50%	0.00%	0.00%	0.00%
	.						
10	Working Capital Allowance		\$8,941,149	(\$8,941,149)	\$ -	\$ -	\$ -

Notes (1)

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.

⁽²⁾ Average of opening and closing balances for the year.

Revenue Requirement Workform (RRWF) for 2020 Filers

Utility Income

Line No.	Particulars	Initial Application				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$27,396,127	(\$27,396,127)	\$ -	\$ -	\$ -
2	Other Revenue	(1) \$1,558,372	(\$1,558,372)	\$ -	\$ -	\$ -
3	Total Operating Revenues	\$28,954,499	(\$28,954,499)	<u> </u>	\$ -	\$
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$17,388,957 \$4,404,633 \$268,803 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	\$17,388,957 \$4,404,633 \$268,803 \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	\$17,388,957 \$4,404,633 \$268,803 \$ -
9	Subtotal (lines 4 to 8)	\$22,062,393	\$ -	\$22,062,393	\$ -	\$22,062,393
10	Deemed Interest Expense	\$2,616,443	(\$2,616,443)	\$	<u> </u>	\$
11	Total Expenses (lines 9 to 10)	\$24,678,836	(\$2,616,443)	\$22,062,393	<u> </u>	\$22,062,393
12	Utility income before income taxes	\$4,275,663	(\$26,338,056)	(\$22,062,393)	\$	(\$22,062,393)
13	Income taxes (grossed-up)	\$409,974	\$	\$409,974	<u> </u>	\$409,974
14	Utility net income	\$3,865,689	(\$26,338,056)	(\$22,472,367)	\$ -	(\$22,472,367)

Notes Other Revenues / Revenue Offsets

(1)

Specific Service Charges Late Payment Charges Other Distribution Revenue	\$219,234 \$156,800 \$1,534,028		\$ - \$ - \$ -		
Other Income and Deductions Total Revenue Offsets	(\$351,690) \$1,558,372	\$ -	\$	\$-	<u> </u>

Revenue Requirement Workform (RRWF) for 2020 Filers

Taxes/PILs

Line No.	Particulars	Application		Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$3,865,689	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$2,728,592)	\$ -	\$ -
3	Taxable income	\$1,137,097	<u> </u>	\$ -
	Calculation of Utility income Taxes			
4	Income taxes	\$301,331	\$301,331	\$301,331
6	Total taxes	\$301,331	\$301,331	\$301,331
7	Gross-up of Income Taxes	\$108,643	\$108,643	\$108,643
8	Grossed-up Income Taxes	\$409,974	\$409,974	\$409,974
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$409,974	\$409,974	\$409,974
10	Other tax Credits	\$ -	\$ -	\$ -
	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

Revenue Requirement Workform (RRWF) for 2020 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capitaliza	ation Ratio	Cost Rate	Return
		Initial Ap	plication		
		(%)	(\$)	(%)	(\$)
	Debt	(70)	(Ψ)	(70)	(Ψ)
1	Long-term Debt	56.00%	\$60,266,867	4.14%	\$2,495,048
2	Short-term Debt	4.00%	\$4,304,776	2.82%	\$121,395
3	Total Debt	60.00%	\$64,571,643	4.05%	\$2,616,443
	Equity				
4	Common Equity	40.00%	\$43,047,762	8.98%	\$3,865,689
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	Total Equity	40.00%	\$43,047,762	8.98%	\$3,865,689
7	Total	100.00%	\$107,619,406	6.02%	\$6,482,132
		(%)	(\$)	(%)	(\$)
	Debt				
1	Long-term Debt	0.00%	\$ -	0.00%	\$ -
2	Short-term Debt	0.00%	\$ -	0.00%	\$ -
3	Total Debt	0.00%	\$ -	0.00%	\$ -
	Equity				
4	Common Equity	0.00%	\$ -	0.00%	\$ -
5	Preferred Shares	0.00%	<u> </u>	0.00%	<u> </u>
6	Total Equity	0.00%	\$ -	0.00%	\$ -
7	Total	0.00%	\$98,678,257	0.00%	\$ -
		Den De en	d Decision		
	Debt	(%)	(\$)	(%)	(\$)
8	Long-term Debt	0.00%	\$ -	4.14%	\$ -
9	Short-term Debt	0.00%	а- \$-	2.82%	э- \$-
10	Total Debt	0.00%	\$ -	0.00%	<u> </u>
44	Equity	0.000/	٠	0.000/	¢
11 12	Common Equity	0.00%	\$ -	8.98%	\$ - ¢
12 13	Preferred Shares Total Equity	0.00%	<u> </u>	0.00%	<u> </u>
15		0.00%	- -	0.00%	<u> </u>
14	Total	0.00%	\$98,678,257	0.00%	\$ -

Notes

Revenue Requirement Workform (RRWF) for 2020 Filers

Revenue Deficiency/Sufficiency

		Initial Appli	ication			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 4	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net Total Revenue	\$23,125,601 \$1,558,372 \$24,683,972	\$5,252,453 \$22,143,675 \$1,558,372 \$28,954,499	\$23,125,601 \$ - \$23,125,601	(\$1,446,541) \$28,842,668 \$- \$27,396,127	\$ - \$ - \$ -	\$30,016,861 (\$30,016,861) \$ - \$ -
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$22,062,393 \$2,616,443 \$24,678,836	\$22,062,393 \$2,616,443 \$24,678,836	\$22,062,393 \$- \$22,062,393	\$22,062,393 \$ - \$22,062,393	\$22,062,393 \$ - \$22,062,393	\$22,062,393 \$ - \$22,062,393
9	Utility Income Before Income Taxes	\$5,136	\$4,275,663	\$1,063,208	\$5,333,734	(\$22,062,393)	(\$22,062,393)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$2,728,592)	(\$2,728,592)	(\$2,728,592)	(\$2,728,592)	\$ -	\$ -
11	Taxable Income	(\$2,723,456)	\$1,547,071	(\$1,665,385)	\$2,605,142	(\$22,062,393)	(\$22,062,393)
12 13	Income Tax Rate	26.50% \$ -	26.50% \$409,974	26.50% \$ -	26.50% \$690,363	26.50% \$ -	26.50% \$ -
14 15	Income Tax on Taxable Income Income Tax Credits Utility Net Income	\$ - \$5,136	\$ - \$3,865,689	\$ - \$1,063,208	\$ - (\$22,472,367)	\$ - (\$22,062,393)	\$ - (\$22,472,367)
16	Utility Rate Base	\$107,619,406	\$107,619,406	\$98,678,257	\$98,678,257	\$98,678,257	\$98,678,257
17	Deemed Equity Portion of Rate Base	\$43,047,762	\$43,047,762	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	0.01%	8.98%	0.00%	0.00%	0.00%	0.00%
19	Target Return - Equity on Rate Base	8.98%	8.98%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-8.97%	0.00%	0.00%	0.00%	0.00%	0.00%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	2.44% 6.02%	6.02% 6.02%	1.08% 0.00%	0.00% 0.00%	-22.36% 0.00%	0.00% 0.00%
23	Deficiency/Sufficiency in Rate of Return	-3.59%	0.00%	1.08%	0.00%	-22.36%	0.00%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$3,865,689 \$3,860,553 \$5,252,453 ⁽¹⁾	\$3,865,689 (\$0)	\$ - (\$1,063,208) (\$1,446,541) ⁽¹⁾	\$ - \$ -	\$ - \$22,062,393 \$30,016,861 ⁽¹⁾	\$ - \$ -

Notes:

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

Revenue Requirement Workform (RRWF) for 2020 Filers

Revenue Requirement

Line No.	Particulars	Application		Per Board Decision
1 2 3 5 6	OM&A Expenses Amortization/Depreciation Property Taxes Income Taxes (Grossed up) Other Expenses	\$17,388,957 \$4,404,633 \$268,803 \$409,974 \$ -	\$17,388,957 \$4,404,633 \$268,803 \$409,974	\$17,388,957 \$4,404,633 \$268,803 \$409,974
7	Return Deemed Interest Expense Return on Deemed Equity	\$2,616,443 \$3,865,689	\$ - \$ -	\$ - \$ -
8	Service Revenue Requirement (before Revenues)	\$28,954,499	\$22,472,367	\$22,472,367
9 10	Revenue Offsets Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)	\$1,558,372 \$27,396,127	<u>\$ -</u> \$22,472,367	\$ - \$22,472,367
11 12	Distribution revenue Other revenue	\$27,396,127 \$1,558,372	\$ - \$ -	\$ - \$ -
13	Total revenue	\$28,954,499	\$ -	\$ -
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)_	(1) (\$22,472,367)	⁽¹⁾ (\$22,472,367) ⁽¹⁾

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application		Δ% ⁽²⁾	Per Board Decision	Δ% (2
Service Revenue Requirement Grossed-Up Revenue	\$28,954,499	\$22,472,367	(\$0)	\$22,472,367	(\$1
Deficiency/(Sufficiency)	\$5,252,453	(\$1,446,541)	(\$1)	\$30,016,861	(\$1
Base Revenue Requirement (to be recovered from Distribution Rates)	\$27 396 127	\$22 472 367	(\$0)	\$22 472 367	(\$1
Base Revenue Requirement (to be recovered from Distribution Rates) Revenue Deficiency/(Sufficiency) Associated with Base Revenue	\$27,396,127	\$22,472,367	(\$0)	\$22,472,367	(\$

Notes

(2)

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.



Notes:

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

Revenue Requirement Workform (RRWF) for 2020 Filers

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: Initial Application

A) Allocated Costs

Name of Customer Class ⁽³⁾ From Sheet 10. Load Forecast		Allocated from vious Studv ⁽¹⁾	%		enue Requirement (1) (7A)	%
1 Residential 2 GS < 50 kW 3 GS > 50 kW 4 Street Lighting 5 Sentinel Lighting 6 USL 7 8 9 10 11 12 13 14 15 16 17 18 19 20	\$ \$ \$ \$	15,252,549 3,258,128 4,557,185 799,299 44,183 39,536	63.68% 13.60% 19.03% 3.34% 0.18% 0.17%	\$ \$ \$ \$ \$	18,734,558 3,983,049 5,709,275 434,489 49,088 44,039	64.70% 13.76% 19.72% 1.50% 0.17% 0.15%
Total	\$	23,950,879	100.00%	\$	28,954,499	100.00%
			Service Revenue Requirement (from Sheet 9)	\$	28,954,499.20	

(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.

B) Calculated Class Revenues

Name of Customer Class	Forecast (LF) X rent approved rates	F X current proved rates X (1+d)	LF X	Proposed Rates	Miscellaneous Revenues		
	(7B)	(7C)		(7D)	(7E)		
1 Residential	\$ 13,920,083	\$16,490,583	\$	16,613,711	\$	945,214	
2 GS < 50 kW	\$ 3,717,845	\$ 4,404,226	\$	4,404,267	\$	223,571	
3 GS > 50 kW	\$ 4,697,620	\$5,565,306	\$ \$ \$	5,565,046	\$	338,915	
4 Street Lighting	\$ 721,797	\$ 855,087	\$	729,403	\$	43,988	
5 Sentinel Lighting	\$ 31,389	\$ 37,214	\$	39,993	\$	3,696	
6 USL 7 8 9 0 1 2 2 3 4 5 6 6 7 8 9 9	\$ 36,867	\$ 43,710	\$	43,707	\$	2,988	
Total	\$ 23,125,601	\$ 27,396,127	\$	27,396,127	\$	1,558,372	

(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,

C) Rebalancing Revenue-to-Cost Ratios

Name of Customer Class	Previously Approved Ratios Most Recent Year:	Status Quo Ratios (7C + 7E) / (7A)	Proposed Ratios (7D + 7E) / (7A)	Policy Range
	2013	()()	,,,,,	
	%	%	%	%
1 Residential	92.42%	93.07%	93.72%	85 - 115
2 GS < 50 kW	117.97%	116.19%	116.19%	80 - 120
3 GS > 50 kW	114.08%	103.41%	103.41%	80 - 120
4 Street Lighting	90.57%	206.93%	178.00%	80 - 120
5 Sentinel Lighting	90.57%	83.34%	89.00%	80 - 120
6 USL	120.00%	106.04%	106.03%	80 - 120
7				
8				
9				
0				
1				
2				
3				
4				
5				
6				
7				
18				
19				
20				

(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.

(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 P	Period	
	2020	2021	2022	
1 Residential	93.72%	93.72%	93.72%	85 - 115
2 GS < 50 kW	116.19%	116.19%	116.19%	80 - 120
3 GS > 50 kW	103.41%	103.41%	103.41%	80 - 120
4 Street Lighting	178.00%	149.00%	120.00%	80 - 120
5 Sentinel Lighting	89.00%	94.00%	100.00%	80 - 120
6 USL	106.03%	106.03%	106.03%	80 - 120
8 9 0 1 2 3 3 4 5 5 6 7 8 9 9 0				

(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" 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'.

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		43,107								
kWh		361,088,385								
Proposed Residential Class Specific Revenue Requirement ¹	\$	16,613,711.22								
Residential Base Rates on Cur	rent Tar	iff								
Monthly Fixed Charge (\$)	\$	26.91								
Distribution Volumetric Rate (\$/kWh)										

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	26.91	43,107	\$ 13,920,112.44	
Variable		361,088,385		
TOTAL	-	-		-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy Transition Years ²	0	l		
	Test Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split	
Fixed				
Variable				
TOTAL		-		
	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
Fixed				
Variable				
TOTAL	-	\$-	-	
Checks ³		I		
Change in Fixed Rate		1		
Difference Between Revenues @ Proposed Rates		1		
and Oliver On wife Brunner Brunnert		4		

and	Class	Specific	Revenue	Req	, nent

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).
- ² 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/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)

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: Initial Application					CI	ass Allocated Reven	ues					Dis	tribution Rates			Revenue Reconciliati	on
	Customer and Lo	oad Forecast				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 Serv Rate	ice Charge No. of decimals	Vo Rate	lumetric Rate No. dec		Volumetric revenues	Distribution Revenues less Transformer Ownership
1 Residential 2 GS < 50 kW	kWh kW kW kW kW kWh	43,107 4,182 9,941 359 283 - - - - - - - - - - - - - - - - - - -	361,086,385 134,331,187 - - - 1,081,447 - - - - - - - - - - - - - - - - - -	- 856,504 20,511 1,062 - - - - - - - - - - - - - - - - - - -	\$ 16,613,711 \$ 4,404,267 \$ 5,565,046 \$ 729,403 \$ 39,993 \$ 43,707	\$ 16,613,711 \$ 1,125,125 \$ 1,009,702 \$ 665,649 \$ 22,323 \$ 29,487	-\$ 0 \$ 3,279,142 \$ 4,555,344 \$ 63,754 \$ 17,670 \$ 14,220	100.00% 25.55% 91.26% 55.82% 67.47%	0.00% 74.45% 81.86% 8.74% 44.18% 32.53%		\$32.12 \$22.42 \$171.02 \$5.56 \$5.16 \$8.66		\$0.0000 \$0.0244 \$5.4559 \$3.1083 \$16.6389 \$0.0131		\$ 16,615,162,00 \$ 1,125,125,25 \$ 1,000,702,00 \$ 665,649,30 \$ 22,315,44 \$ 29,477,24 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 3,277,680.9628 \$ 4,672,999.6349 \$ 63,753.4501 \$ 17,669.8174	\$ 16,615,162.08 \$ 4,402.806.24 \$ 5,656.022.71 \$ 729,402.81 \$ 39,985.26 \$ 43,644.24 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
								Total Transformer Ow	nership Allowance	\$ 117,679					Total Distribution	Revenues	\$27,396,023.34
Notes:													Rates recover	revenue requirem	t Base Revenue Re	quirement	\$27,396,127.43
¹ Transformer Ownership Allowance	e is entered as a positive a	mount, and only for	those classes to whi	ch it applies.											Difference % Difference		-\$ 104.09 0.000%

² 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).

Tracking Form

The first row shown, labeled "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, 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 Base and Capital Expenditures			Оре	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 (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
ſ		Original Application	\$ 6,482,132	6.02%	\$ 107,619,406	\$ 119,215,315	\$ 8,941,149	\$ 4,404,633	\$ 409,974	\$ 17,388,957	\$ 28,954,499	\$ 1,558,372	\$ 27,396,127	\$ 5,252,453