



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers



Version 7.02

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Service Territory	
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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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***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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## 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.***

- (1) Adjustment of deduction of -173,935 to reflect amount included in OM&A for transportation depreciation
- (2) Change in late payment charges from \$78,000 to \$111.252
- (3) Change in long term debt rate from 3.72% to 3.57%





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## Rate Base and Working Capital

Line No.	Rate Base Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Per Board Decision
1	Gross Fixed Assets (average) <sup>(2)</sup>	\$57,907,639	\$ -	\$57,907,639	\$ -	\$57,907,639
2	Accumulated Depreciation (average) <sup>(2)</sup>	(\$6,507,375)	\$ -	(\$6,507,375)	\$ -	(\$6,507,375)
3	Net Fixed Assets (average) <sup>(2)</sup>	\$51,400,264	\$ -	\$51,400,264	\$ -	\$51,400,264
4	Allowance for Working Capital <sup>(1)</sup>	\$2,869,356	(\$13,045)	\$2,856,310	(\$2,856,310)	\$ -
5	<b>Total Rate Base</b>	<b>\$54,269,620</b>	<b>(\$13,045)</b>	<b>\$54,256,575</b>	<b>(\$2,856,310)</b>	<b>\$51,400,264</b>

### (1) Allowance for Working Capital - Derivation

6	Controllable Expenses	\$6,101,306	(\$173,935)	\$5,927,371	\$ -	\$5,927,371
7	Cost of Power	\$32,156,768	\$ -	\$32,156,768	\$ -	\$32,156,768
8	Working Capital Base	\$38,258,074	(\$173,935)	\$38,084,139	\$ -	\$38,084,139
9	Working Capital Rate % <sup>(1)</sup>	7.50%	0.00%	7.50%	-7.50%	0.00%
10	Working Capital Allowance	\$2,869,356	(\$13,045)	\$2,856,310	(\$2,856,310)	\$ -

### Notes

(1) Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2017 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.



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## Utility Income

Line No.	Particulars	Initial Application	Adjustments	Interrogatory Responses	Adjustments	Per Board Decision
	<b>Operating Revenues:</b>					
1	Distribution Revenue (at Proposed Rates)	\$10,835,486	\$ -	\$10,835,486	\$ -	\$10,835,486
2	Other Revenue <sup>(1)</sup>	\$1,107,121	(\$131,363)	\$975,758	\$ -	\$975,758
3	Total Operating Revenues	\$11,942,607	(\$131,363)	\$11,811,244	\$ -	\$11,811,244
	<b>Operating Expenses:</b>					
4	OM+A Expenses	\$5,990,356	\$ -	\$5,990,356	\$ -	\$5,990,356
5	Depreciation/Amortization	\$2,699,369	\$ -	\$2,699,369	\$ -	\$2,699,369
6	Property taxes	\$110,950	\$ -	\$110,950	\$ -	\$110,950
7	Capital taxes	\$ -	\$ -	\$ -	\$ -	\$ -
8	Other expense	\$ -	\$ -	\$ -	\$ -	\$ -
9	Subtotal (lines 4 to 8)	\$8,800,675	\$ -	\$8,800,675	\$ -	\$8,800,675
10	Deemed Interest Expense	\$1,168,751	(\$45,967)	\$1,122,783	(\$15,827)	\$1,106,956
11	Total Expenses (lines 9 to 10)	\$9,969,425	(\$45,967)	\$9,923,458	(\$15,827)	\$9,907,631
12	Utility income before income taxes	\$1,973,182	(\$85,396)	\$1,887,786	\$15,827	\$1,903,613
13	Income taxes (grossed-up)	\$146,910	\$ -	\$146,910	\$ -	\$146,910
14	Utility net income	\$1,826,272	(\$85,396)	\$1,740,876	\$15,827	\$1,756,703

## Notes

### Other Revenues / Revenue Offsets

<sup>(1)</sup>	Specific Service Charges	\$170,000	\$ -	\$170,000	\$170,000
	Late Payment Charges	\$78,000	\$33,252	\$111,252	\$111,252
	Other Distribution Revenue	\$829,121	(\$164,615)	\$664,506	\$664,506
	Other Income and Deductions	\$30,000	\$ -	\$30,000	\$30,000
	Total Revenue Offsets	\$1,107,121	(\$131,363)	\$975,758	\$975,758



# Revenue Requirement Workform (RRWF) for 2017 Filers

## Taxes/PILs

Line No.	Particulars	Application	Interrogatory Responses	Per Board Decision
<u>Determination of Taxable Income</u>				
1	Utility net income before taxes	\$1,905,949	\$1,905,491	\$1,805,177
2	Adjustments required to arrive at taxable utility income	(\$1,498,023)	(\$1,498,023)	(\$1,498,023)
3	Taxable income	<u>\$407,926</u>	<u>\$407,467</u>	<u>\$307,154</u>
<u>Calculation of Utility income Taxes</u>				
4	Income taxes	<u>\$107,979</u>	<u>\$107,979</u>	<u>\$107,979</u>
6	Total taxes	<u>\$107,979</u>	<u>\$107,979</u>	<u>\$107,979</u>
7	Gross-up of Income Taxes	<u>\$38,931</u>	<u>\$38,931</u>	<u>\$38,931</u>
8	Grossed-up Income Taxes	<u>\$146,910</u>	<u>\$146,910</u>	<u>\$146,910</u>
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	<u>\$146,910</u>	<u>\$146,910</u>	<u>\$146,910</u>
10	Other tax Credits	\$ -	\$ -	\$ -
<u>Tax Rates</u>				
11	Federal tax (%)	15.00%	15.00%	15.00%
12	Provincial tax (%)	11.50%	11.50%	11.50%
13	Total tax rate (%)	<u>26.50%</u>	<u>26.50%</u>	<u>26.50%</u>

## Notes



# Revenue Requirement Workform (RRWF) for 2017 Filers

## Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate		Return
		Initial Application				
		(%)	(\$)	(%)		(\$)
	Debt					
1	Long-term Debt	56.00%	\$30,390,987	3.72%		\$1,130,545
2	Short-term Debt	4.00%	\$2,170,785	1.76%		\$38,206
3	Total Debt	60.00%	\$32,561,772	3.59%		\$1,168,751
	Equity					
4	Common Equity	40.00%	\$21,707,848	8.78%		\$1,905,949
5	Preferred Shares	0.00%	\$ -	0.00%		\$ -
6	Total Equity	40.00%	\$21,707,848	8.78%		\$1,905,949
7	Total	100.00%	\$54,269,620	5.67%		\$3,074,700
		Interrogatory Responses				
		(%)	(\$)	(%)		(\$)
	Debt					
1	Long-term Debt	56.00%	\$30,383,682	3.57%		\$1,084,587
2	Short-term Debt	4.00%	\$2,170,263	1.76%		\$38,197
3	Total Debt	60.00%	\$32,553,945	3.45%		\$1,122,783
	Equity					
4	Common Equity	40.00%	\$21,702,630	8.78%		\$1,905,491
5	Preferred Shares	0.00%	\$ -	0.00%		\$ -
6	Total Equity	40.00%	\$21,702,630	8.78%		\$1,905,491
7	Total	100.00%	\$54,256,575	5.58%		\$3,028,274
		Per Board Decision				
		(%)	(\$)	(%)		(\$)
	Debt					
8	Long-term Debt	56.00%	\$28,784,148	3.72%		\$1,070,770
9	Short-term Debt	4.00%	\$2,056,011	1.76%		\$36,186
10	Total Debt	60.00%	\$30,840,159	3.59%		\$1,106,956
	Equity					
11	Common Equity	40.00%	\$20,560,106	8.78%		\$1,805,177
12	Preferred Shares	0.00%	\$ -	0.00%		\$ -
13	Total Equity	40.00%	\$20,560,106	8.78%		\$1,805,177
14	Total	100.00%	\$51,400,264	5.67%		\$2,912,133

### Notes





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# Revenue Requirement Workform (RRWF) for 2017 Filers

## Revenue Deficiency/Sufficiency

Line No.	Particulars	Initial Application		Interrogatory Responses		Per Board Decision	
		At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1	Revenue Deficiency from Below		\$2,613,737		\$2,698,509		\$2,546,201
2	Distribution Revenue	\$8,301,592	\$8,221,749	\$8,301,592	\$8,136,977	\$8,301,592	\$8,289,285
3	Other Operating Revenue	\$1,107,121	\$1,107,121	\$975,758	\$975,758	\$975,758	\$975,758
	Offsets - net						
4	<b>Total Revenue</b>	<b>\$9,408,713</b>	<b>\$11,942,607</b>	<b>\$9,277,350</b>	<b>\$11,811,244</b>	<b>\$9,277,350</b>	<b>\$11,811,244</b>
5	Operating Expenses	\$8,800,675	\$8,800,675	\$8,800,675	\$8,800,675	\$8,800,675	\$8,800,675
6	Deemed Interest Expense	\$1,168,751	\$1,168,751	\$1,122,783	\$1,122,783	\$1,106,956	\$1,106,956
8	<b>Total Cost and Expenses</b>	<b>\$9,969,425</b>	<b>\$9,969,425</b>	<b>\$9,923,458</b>	<b>\$9,923,458</b>	<b>\$9,907,631</b>	<b>\$9,907,631</b>
9	<b>Utility Income Before Income Taxes</b>	<b>(\$560,713)</b>	\$1,973,182	<b>(\$646,108)</b>	\$1,887,786	<b>(\$630,281)</b>	\$1,903,613
10	Tax Adjustments to Accounting Income per 2013 PILs model	<b>(\$1,498,023)</b>	<b>(\$1,498,023)</b>	<b>(\$1,498,023)</b>	<b>(\$1,498,023)</b>	<b>(\$1,498,023)</b>	<b>(\$1,498,023)</b>
11	<b>Taxable Income</b>	<b>(\$2,058,736)</b>	\$475,158	<b>(\$2,144,132)</b>	\$389,763	<b>(\$2,128,305)</b>	\$405,590
12	Income Tax Rate	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
13	<b>Income Tax on Taxable Income</b>	<b>(\$545,565)</b>	\$125,917	<b>(\$568,195)</b>	\$103,287	<b>(\$564,001)</b>	\$107,481
14	<b>Income Tax Credits</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	<b>Utility Net Income</b>	<b>(\$15,148)</b>	<b>\$1,826,272</b>	<b>(\$77,913)</b>	<b>\$1,740,876</b>	<b>(\$66,280)</b>	<b>\$1,756,703</b>
16	<b>Utility Rate Base</b>	\$54,269,620	\$54,269,620	\$54,256,575	\$54,256,575	\$51,400,264	\$51,400,264
17	Deemed Equity Portion of Rate Base	\$21,707,848	\$21,707,848	\$21,702,630	\$21,702,630	\$20,560,106	\$20,560,106
18	Income/(Equity Portion of Rate Base)	-0.07%	8.41%	-0.36%	8.02%	-0.32%	8.54%
19	Target Return - Equity on Rate Base	8.78%	8.78%	8.78%	8.78%	8.78%	8.78%
20	Deficiency/Sufficiency in Return on Equity	-8.85%	-0.37%	-9.14%	-0.76%	-9.10%	-0.24%
21	Indicated Rate of Return	2.13%	5.52%	1.93%	5.28%	2.02%	5.57%
22	Requested Rate of Return on Rate Base	5.67%	5.67%	5.58%	5.58%	5.67%	5.67%
23	Deficiency/Sufficiency in Rate of Return	-3.54%	-0.15%	-3.66%	-0.30%	-3.64%	-0.09%
24	Target Return on Equity	\$1,905,949	\$1,905,949	\$1,905,491	\$1,905,491	\$1,805,177	\$1,805,177
25	Revenue Deficiency/(Sufficiency)	\$1,921,097	<b>(\$79,678)</b>	\$1,983,404	<b>(\$164,615)</b>	\$1,871,458	<b>(\$48,474)</b>
26	<b>Gross Revenue Deficiency/(Sufficiency)</b>	<b>\$2,613,737 <sup>(1)</sup></b>		<b>\$2,698,509 <sup>(1)</sup></b>		<b>\$2,546,201 <sup>(1)</sup></b>	

### Notes:

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



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## Revenue Requirement

Line No.	Particulars	Application	Interrogatory Responses	Per Board Decision
1	OM&A Expenses	\$5,990,356	\$5,990,356	\$5,990,356
2	Amortization/Depreciation	\$2,699,369	\$2,699,369	\$2,699,369
3	Property Taxes	\$110,950	\$110,950	\$110,950
5	Income Taxes (Grossed up)	\$146,910	\$146,910	\$146,910
6	Other Expenses	\$ -		
7	Return			
	Deemed Interest Expense	\$1,168,751	\$1,122,783	\$1,106,956
	Return on Deemed Equity	\$1,905,949	\$1,905,491	\$1,805,177
8	<b>Service Revenue Requirement (before Revenues)</b>	<u>\$12,022,284</u>	<u>\$11,975,859</u>	<u>\$11,859,718</u>
9	Revenue Offsets	\$1,107,121	\$975,758	\$ -
10	<b>Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)</b>	<u>\$10,915,164</u>	<u>\$11,000,101</u>	<u>\$11,859,718</u>
11	Distribution revenue	\$10,835,486	\$10,835,486	\$10,835,486
12	Other revenue	\$1,107,121	\$975,758	\$975,758
13	<b>Total revenue</b>	<u>\$11,942,607</u>	<u>\$11,811,244</u>	<u>\$11,811,244</u>
14	<b>Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)</b>	<u>(\$79,678)</u> <sup>(1)</sup>	<u>(\$164,615)</u> <sup>(1)</sup>	<u>(\$48,474)</u> <sup>(1)</sup>

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application	Interrogatory Responses	Δ% <sup>(2)</sup>	Per Board Decision	Δ% <sup>(2)</sup>
<b>Service Revenue Requirement Grossed-Up Revenue</b>	\$12,022,284	\$11,975,859	(\$0)	\$11,859,718	(\$1)
<b>Deficiency/(Sufficiency)</b>	\$2,613,737	\$2,698,509	\$0	\$2,546,201	(\$1)
<b>Base Revenue Requirement (to be recovered from Distribution Rates)</b>	\$10,915,164	\$11,000,101	\$0	\$11,859,718	(\$1)
<b>Revenue Deficiency/(Sufficiency) Associated with Base Revenue Requirement</b>	\$2,533,894	\$2,533,894	\$0	\$ -	(\$1)

### Notes

- (1) Line 11 - Line 8  
(2) Percentage Change Relative to Initial Application



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# Revenue Requirement Workform (RRWF) for 2017 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 2-1** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-1B** and in Exhibit 3 of the application.

**Appendix 2-1B** is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth and trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Interrogatory Responses

Customer Class		Initial Application			Interrogatory Responses			Per Board Decision		
Input the name of each customer class.		Customer / Connections	kWh	kW/kVA <sup>(1)</sup>	Customer / Connections	kWh	kW/kVA <sup>(1)</sup>	Customer / Connections	kWh	kW/kVA <sup>(1)</sup>
		Test Year average or mid-year	Annual	Annual	Test Year average or mid-year	Annual	Annual	Test Year average or mid-year	Annual	Annual
1	Residential	15,930	149,932,101		15,459	149,174,008				
2	GS < 50	1,052	32,368,433		1,042	32,869,504				
3	GS > 50 to 4,999	72	55,988,819	157,261	76	56,130,544	155,585			
4	Sentinel Lights	161	98,320	273	164	104,785	291			
5	Streetlights	3,030	669,367	1,889	2,918	546,843	1,558			
6	USL	74	530,367		74	463,258				
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
Total			239,587,407							

Notes:

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



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## 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: **Interrogatory Responses**

### A) Allocated Costs

Name of Customer Class <sup>(3)</sup>		Costs Allocated from Previous Study <sup>(1)</sup>	%	Allocated Class Revenue Requirement <sup>(1)</sup>	%
From Sheet 10. Load Forecast				(7A)	
1 Residential		\$ 6,624,935	81.51%	\$ 9,772,990	81.61%
2 GS < 50		\$ 579,592	7.13%	\$ 958,963	8.01%
3 GS > 50 to 4,999		\$ 461,496	5.68%	\$ 976,698	8.16%
4 Sentinel Lights		\$ 48,922	0.60%	\$ 51,445	0.43%
5 Streetlights		\$ 396,838	4.88%	\$ 188,915	1.58%
6 USL		\$ 15,862	0.20%	\$ 26,847	0.22%
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
<b>Total</b>		<b>\$ 8,127,645</b>	<b>100.00%</b>	<b>\$ 11,975,859</b>	<b>100.00%</b>
		<b>Service Revenue Requirement (from Sheet 9)</b>		<b>\$ 11,975,858.77</b>	

- (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		Load Forecast (LF) X current approved rates (7B)	LF X current approved rates X (1+d) (7C)	LF X Proposed Rates (7D)	Miscellaneous Revenues (7E)
1	Residential	\$ 6,683,501	\$ 8,856,035	\$ 8,878,017	\$ 817,278
2	GS < 50	\$ 702,083	\$ 930,302	\$ 929,538	\$ 76,522
3	GS > 50 to 4,999	\$ 599,675	\$ 794,605	\$ 907,188	\$ 61,746
4	Sentinel Lights	\$ 36,853	\$ 48,833	\$ 49,040	\$ 4,223
5	Streetlights	\$ 261,911	\$ 347,048	\$ 212,885	\$ 13,813
6	USL	\$ 17,586	\$ 23,279	\$ 23,433	\$ 2,176
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
<b>Total</b>		<b>\$ 8,301,610</b>	<b>\$ 11,000,101</b>	<b>\$ 11,000,101</b>	<b>\$ 975,758</b>

- (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	Status Quo Ratios	Proposed Ratios	Policy Range
		Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
		2013 %	%	%	%
1	Residential	97.60%	98.98%	99.20%	85 - 115
2	GS < 50	120.00%	104.99%	104.91%	85 - 115
3	GS > 50 to 4,999	120.00%	87.68%	99.20%	80 - 120
4	Sentinel Lights	97.60%	103.13%	103.53%	80 - 120
5	Streetlights	97.60%	191.02%	120.00%	80 - 120
6	USL	120.00%	94.81%	95.39%	80 - 120
7					
8					
9					
10					
11					
12					
13					
14					
15					
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- (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* <sup>(11)</sup>

Name of Customer Class		Proposed Revenue-to-Cost Ratio			Policy Range
		Test Year	Price Cap IR Period		
		2017	2018	2019	
1	Residential	99.20%	99.20%	99.20%	85 - 115
2	GS < 50	104.91%	104.91%	104.91%	85 - 115
3	GS > 50 to 4,999	99.20%	99.20%	99.20%	80 - 120
4	Sentinel Lights	103.53%	103.53%	103.53%	80 - 120
5	Streetlights	120.00%	120.00%	120.00%	80 - 120
6	USL	95.39%	95.39%	95.39%	80 - 120
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9					
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(11) The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2017 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 2018 and 2019 Price Cap IR models, as necessary. For 2018 and 2019, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2017 (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'.



Ontario Energy Board

# Revenue Requirements (RRWF) for 2017

## New Rate Design Policy For Residential

Please complete the following tables.

### A Data Inputs (from Sheet 10. Load Forecast)

Test Year Billing Determinants for Residential Class	
Customers	15,459
kWh	149,174,008

Proposed Residential Class Specific Revenue Requirement <sup>1</sup>	\$ 8,878,016.60
--	-----------------

Residential Base Rates on Current Tariff	
Monthly Fixed Charge (\$)	\$ 24.85
Distribution Volumetric Rate (\$/kWh)	\$ 0.0139

### B Current Fixed/Variable Split

	Base Rates	Billing Determinants
Fixed	24.85	15,459
Variable	0.0139	149,174,008
<b>TOTAL</b>	-	-

### C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy Transition Years <sup>2</sup>	4
--	---

	Test Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split
Fixed	\$ 6,123,661.81	33.01
Variable	\$ 2,754,354.79	0.0185
<b>TOTAL</b>	\$ 8,878,016.60	-

	New F/V Split	Revenue @ new F/V Split
--	---------------	-------------------------



Fixed	76.73%	\$	6,812,250.50
Variable	23.27%	\$	2,065,766.09
TOTAL	-	\$	8,878,016.60

Checks <sup>3</sup>	
Change in Fixed Rate	\$ 3.71
Difference Between Revenues @	(\$7,400.91)
Proposed Rates and Class Specific	-0.08%

**Notes:**

- <sup>1</sup> The final residential class specific revenue requirement, excluding allocated Miscellaneous Rev should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- <sup>2</sup> The distributor should enter the number of years remaining before the transition to fully fixed rate fixed rates over a four year period and began the transition in 2016 would input the number "3" i year period would input the number "4". Where the change in the residential rate design will res \$4/year, a distributor may propose an additional transition year.
- <sup>3</sup> Change in fixed rate due to rate design policy should be less than \$4. The difference between the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a

# t Workform Filers

al Customers

Revenue	% of Total Revenue
\$ 4,609,982.49	68.98%
\$ 2,073,518.72	31.02%
\$ 6,683,501.21	-

Reconciliation - Test Year Base Rates @ Current F/V Split	
\$	6,123,763.46
\$	2,759,719.15
\$	8,883,482.62

Final Adjusted Base Rates	Revenue Reconciliation @ Adjusted Rates
------------------------------	---

\$	36.72	\$	6,812,014.37
\$	0.0138	\$	2,058,601.31
	-	\$	8,870,615.68

venues, as shown on Sheet 11. Cost Allocation,

ies is completed. A distributor transitioning to fully into cell D40. A distributor transitioning over a five-ult in the fixed charge increasing by more than

he proposed class revenue requirement and the rounding error)

# Revenue Requirement Workform (RRWF) for 2017 Filers

## Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and volumetric 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:		Interrogatory Responses			Class Allocated Revenues			Fixed / Variable Splits <sup>2</sup>			Distribution Rates				Revenue Reconciliation		
Customer and Load Forecast					From Sheet 11. Cost Allocation and Sheet 12. Residential Rate Design			Percentage to be entered as a fraction between 0 and 1		Transformer Ownership Allowance <sup>1</sup> (\$)	Monthly Service Charge		Volumetric Rate		MSC Revenues	Volumetric revenues	Distribution Revenues less Transformer Ownership
Customer Class	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requirement	Monthly Service Charge	Volumetric	Fixed	Variable		Rate	No. of decimals	Rate	No. of decimals			
From sheet 10. Load Forecast																	
1 Residential	kWh	15,459	149,174,008	-	\$ 8,878,017	\$ 6,847,614	\$ 2,030,402	77.13%	22.87%			\$0.0136 /kWh	4	\$ 6,847,261.72	\$ 2,028,766.5130	\$ 8,876,028.23	
2 GS < 50	kWh	1,042	32,869,504	-	\$ 929,538	\$ 568,320	\$ 361,218	61.14%	38.86%			\$0.0110 /kWh		\$ 568,312.05	\$ 361,564.5482	\$ 929,876.60	
3 GS > 50 to 4,999	kW	76	56,130,544	155,585	\$ 907,188	\$ 198,674	\$ 708,514	21.90%	78.10%	\$ 22,556		\$4.6988 /kW		\$ 198,671.15	\$ 731,064.7897	\$ 907,179.94	
4 Sentinel Lights	kW	164	104,785	291	\$ 49,040	\$ 29,277	\$ 19,763	59.70%	40.30%			\$67.8929 /kW		\$ 29,270.90	\$ 19,763.3232	\$ 49,034.23	
5 Streetlights	kW	2,918	546,843	1,558	\$ 212,885	\$ 162,814	\$ 50,070	76.48%	23.52%			\$32.1442 /kW		\$ 162,829.75	\$ 50,070.5303	\$ 212,900.29	
6 USL	kWh	74	463,258	-	\$ 23,433	\$ 12,497	\$ 10,936	53.33%	46.67%			\$0.0236 /kWh		\$ 12,497.28	\$ 10,932.8855	\$ 23,430.17	
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Total Transformer Ownership Allowance														\$ 22,556			
Notes:														Rates recover revenue requirement			
<sup>1</sup> Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies.																	
<sup>2</sup> 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 calculated as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).																	
Total Distribution Revenues														\$ 10,998,449.46			
Base Revenue Requirement														\$ 11,000,101.08			
Difference														-\$ 1,651.62			
% Difference														-0.015%			



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2017 Filers

### 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.

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

<sup>(2)</sup> Short description of change. issue. etc.

### Summary of Proposed Changes

		Cost of Capital		Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement			
Reference <sup>(1)</sup>	Item / Description <sup>(2)</sup>	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	Base Revenue Requirement	Grossed up Revenue Deficiency / Sufficiency
	Original Application	\$ 3,074,700	5.67%	\$ 54,269,620	\$ 38,258,074	\$ 2,869,356	\$ 2,699,369	\$ 146,910	\$ 5,990,356	\$ 12,022,284	\$ 1,107,121	\$ 10,915,164	\$ 2,613,737
1	Rate Base	\$ 3,074,700	5.67%	\$ 54,256,575	\$ 38,084,139	\$ 2,856,310	\$ 2,699,369	\$ 146,910	\$ 5,990,356	\$ 12,022,284	\$ 1,107,121	\$ 10,915,164	\$ 2,613,737
	Change	\$ 0	0.00%	-\$ 13,045	-\$ 173,935	-\$ 13,046	\$ 0	-\$ 0	\$ 0	-\$ 0	\$ 0	\$ 0	\$ 0
2	Other Revenues	\$ 3,074,700	5.67%	\$ 54,256,575	\$ 38,084,139	\$ 2,856,310	\$ 2,699,369	\$ 146,910	\$ 5,990,356	\$ 11,975,859	\$ 975,758	\$ 10,835,486	\$ 2,699,369
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-\$ 46,425	-\$ 131,363	-\$ 79,678	\$ 85,632