Northern Ontario Wires Inc. 26 August, 2016 EB-2016-0096 Exhibit 1 Tab 1 Schedule 1 Page 1 of 1

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6	1			Overview
6	1	1		Revenue Deficiency or Sufficiency
6	1	1	1	Revenue Requirement Work Form



Northern Ontario Wires Inc. Filed: 26 August, 201616 EB-2016-0096 Exhibit 6

<u>Exhibit 6</u>:

REVENUE DEFICIENCY OR SUFFICIENCY



Northern Ontario Wires Inc. Filed:26 August, 2016 EB-2016-0096 Exhibit 6 Tab 1

Exhibit 6: Revenue Deficiency Or Sufficiency

Tab 1 (of 1): Overview



Northern Ontario Wires Inc. Filed:26 August, 2016 EB-2016-0096 Exhibit 6 Tab 1 Schedule 1 Page 1 of 4

\$619,988

1

REVENUE DEFICIENCY OR SUFFICIENCY

The Revenue Deficiency at current approved rates is \$526,990 and the Gross Revenue
Deficiency is \$619,988 for the 2017 Test Year. Further details are provided in the
Revenue Requirement Workform at E6/T1/S1/Att1.

- 5
- 6 NOW Inc.'s utility income for the 2017 Test Year prior to any increase in distribution
- 7 rates would be a loss of \$241,501 as shown in **Table 1**:

Gross Revenue Deficiency

- 8
- 9

Table 1: Calculation of Utility Income					
	2017 Test				
	Year				
Total Net Revenues	\$3,289,165				
OM&A Expenditures	\$2,907,906				
Depreciation & Amortization	\$439,680				
Interest Expense	\$183,080				
Total Costs & Expenses	\$3,530,666				
Utility Income before Income Taxes /PILS	-\$241,501				
PILS/Income Taxes	\$0				
Utility Income	-\$241,501				
Target Return on Equity	\$285,489				
Revenue Deficiency	\$526,990				

10

11

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NOW Inc. anticipates Distribution Revenues of \$3,020,247 for the 2017 Test Year at currently approved distribution rates. NOW Inc. further expects Other Revenue of \$268,918 for the 2017 Test Year. NOW Inc. therefore anticipates Total Net Revenues of \$3,289,165 for the 2017 Test Year before any change in rates. The indicated rate of return at current rates is -0.75% while the requested rate of return is 6.03% resulting in a deficiency of 6.78%.

19

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Northern Ontario Wires Inc. Filed:26 August, 2016 EB-2016-0096 Exhibit 6 Tab 1 Schedule 1 Page 2 of 4

- NOW Inc. is requesting a Service Revenue Requirement of \$3,832,485 for the 2017 Test
 Year which translates into a Base Revenue Requirement of \$3,563,567 when reduced
 by Other Revenue of \$268,918 are taken into account. Table 2 provide a summary of
 the 2017 Test Year Revenue Requirement.
- 5
- 6

	2017 Test
	Year
OM&A Expenditures	\$2,907,906
Depreciation & Amortization	\$439,680
Interest Expense	\$183,080
Total Costs & Expenses	\$3,530,666
Regulated Return on Equity	\$285,489
PILS/Income Taxes	\$16,330
Service Revenue Requirement	\$3,832,485
Revenue Offsets	\$268,918
Base Revenue Requirement	\$3,563,567

Table 2: Calculation of Distribution Revenue Requirement

7 8

9

- 10 Revenue Deficiency Cost Drivers:
- 11

The primary drivers of the 2017 revenue deficiency are higher OM&A and higher rate
base. The increase in rate base results in higher depreciation expense and also a higher
return.

15

Rate base has increased since 2013 as a result capital projects coming in service, partially offset by depreciation and lower working capital amounts. Working capital is lower than 2013 mainly due to a decrease in the Working Capital Allowance from 11.4% rate of approved in the 2013 Application to the current Board Approved R 7.5%. **Table 3** summarizes these changes:

21

22



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Table 3: Change in Rate Base

		Rat	e Base	9	Change			
	201	3 Approved	2017	Requirement		\$	%	
Net Book Value	\$	5,609,321	\$	6,349,329	\$	740,008	13.2%	
Working Capital	\$	1,663,785	\$	1,416,959	-\$	246,826	-14.8%	
Total	\$	7,273,106	\$	7,766,288	\$	493,182	6.8%	

2 3

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5 With respect to the 2017 revenue deficiency of \$619,988, the following analysis of

6 drivers by revenue requirement component is provided in **Table 4**:

- 7
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Table 4: Revenue Deficiency Drivers

Service Revenue Requirement	2013 Approved		2017 Revenue at Existing Rates Allocated in Proportion to 2013 Approved			17 Proposed	Revenue Deficiency		Change (%)
		(A)		(B)		(C)	(D)=(C)-(B)	
OM&A	\$	2,440,480	\$	2,457,729	\$	2,907,906	\$	450,177	18.3%
Depreciation	\$	318,130	\$	320,378	\$	439,680	\$	119,302	37.2%
Return on Rate Base	\$	420,007	\$	422,976	\$	468,569	\$	45,593	10.8%
PILS	\$	11,334	\$	11,414	\$	16,330	\$	4,916	43.1%
Total	\$	3,189,951	\$	3,212,497	\$	3,832,485	\$	619,988	19.3%

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The Service Revenue Requirement approved by the OIEB is in Column A. Column B is the 2017 Revenue at existing rates allocated to revenue requirement components based on the proportions in column A. Column C lists the 2017 Test Year component costs. The difference between Column C and Column B is Column D which provides an estimate of the revenue requirement components for the gross revenue deficiency of \$619,988.

- 17
- 18

There are two main contributing factors to the revenue deficiency:

An increase in OM&A of \$450,177 which is close to the overall change in
 20 2013 - 2017 OM&A of \$467,426 which is discussed in more detail at
 E4/T3/S1, and;



Northern Ontario Wires Inc. Filed:26 August, 2016 EB-2016-0096 Exhibit 6 Tab 1 Schedule 1 Page 4 of 4

- An increase in Depreciation Expense of \$119,309 which results from an increase in Net Book Value of Assets of \$740,008 as detailed in Table 3.
 Please refer to E2/T1/S1 for further details.
- 4

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3

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Version	7.02
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Utility Name	Northern Ontario Wires Inc.	
Service Territory	Cochrane, ON	
Assigned EB Number	EB-2016-0096	
Name and Title	Geoff Sutton, CFO	
Phone Number	705-272-6669	
Email Address	geoffs@nowinc.ca	

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. Page

0 F

Filed:

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers

<u>1. Info</u>	8. Rev_Def_Suff
2. Table of Contents	<u>9. Rev_Reqt</u>
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.

Contario Energy Board Revenue Requirement Workform (RRWF) for 2017 Filers

Data Input⁽¹⁾

	Initial Application	(2)			(6)	_	Per Board Decision	_
1 <u>Rate Base</u> Gross Fixed Assets (average) Accumulated Depreciation (average)	\$8,496,799 (\$2,147,471)	(5)	\$	8,496,799 (\$2,147,471)			\$8,496,799 (\$2,147,471)	
Allowance for Working Capital: Controllable Expenses Cost of Power	\$2,907,906 \$15,984,891		\$ \$	2,907,906 15,984,891			\$2,907,906 \$15,984,891	
Working Capital Rate (%)	7.50%	(9)		7.50%	(9)		7.50%	(9)
2 <u>Utility Income</u>								
Operating Revenues:								
Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates	\$3,020,247 \$3,563,567							
Other Revenue: Specific Service Charges	\$179,571							
Late Payment Charges Other Distribution Revenue	\$89,347							
Other Income and Deductions								
Total Revenue Offsets	\$268,918	(7)						
Operating Expenses:								
OM+A Expenses	\$2,907,906		\$	2,907,906			\$2,907,906	
Depreciation/Amortization	\$439,680		\$	439,680			\$439,680	
Property taxes Other expenses								
Other expenses								
3 <u>Taxes/PILs</u>								
Taxable Income:	(0100.111)	(2)						
Adjustments required to arrive at taxable income	(\$193,111)	(3)						
Utility Income Taxes and Rates:	,							
Income taxes (not grossed up)	\$13,881							
Income taxes (grossed up)	\$16,330							
Federal tax (%)	4.50%							
Provincial tax (%)	10.50%							
Income Tax Credits								
4 <u>Capitalization/Cost of Capital</u> Capital Structure:								
Long-term debt Capitalization Ratio (%)	56.0%	(0)			(8)			(8
Short-term debt Capitalization Ratio (%)	4.0%	(8)			(8)			(8
Common Equity Capitalization Ratio (%) Prefered Shares Capitalization Ratio (%)	40.0%							
	100.0%							
Cost of Capital								
Long-term debt Cost Rate (%)	4.09%							
Short-term debt Cost Rate (%)	1.65%							
Common Equity Cost Rate (%)	9.19%							
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 (%)
 - (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 M10. 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.

Contario Energy Board Revenue Requirement Workform (RRWF) for 2017 Filers

Rate Base and Working Capital

	Rate Base					
Line No.	Particulars	Initial Application				Per Board Decision
1	Gross Fixed Assets (average)	²⁾ \$8,496,799	\$ -	\$8,496,799	\$ -	\$8,496,799
2	Accumulated Depreciation (average)	²⁾ (\$2,147,471)	\$ -	(\$2,147,471)	\$ -	(\$2,147,471)
3	Net Fixed Assets (average)	\$6,349,329	\$ -	\$6,349,329	\$ -	\$6,349,329
4	Allowance for Working Capital	\$1,416,960	\$ -	\$1,416,960	<u> </u>	\$1,416,960
5	Total Rate Base	\$7,766,288	<u> </u>	\$7,766,288	<u> </u>	\$7,766,288

(1) Allowance for Working Capital - Derivation

7	Controllable Expenses Cost of Power Working Capital Base		\$2,907,906 \$15,984,891 \$18,892,797	\$ - \$ - \$ -	\$2,907,906 \$15,984,891 \$18,892,797	\$ - \$ - \$ -	\$2,907,906 \$15,984,891 \$18,892,797
9	Working Capital Rate %	(1)	7.50%	0.00%	7.50%	0.00%	7.50%
10	Working Capital Allowance	=	\$1,416,960	\$ -	\$1,416,960	\$ -	\$1,416,960

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.

Mario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers

Utility Income

Line No.	Particulars	Initial Application				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$3,563,567	(\$3,563,567)	\$ -	\$ -	\$ -
2	Other Revenue	(1) \$268,918	(\$268,918)	\$ -	\$ -	\$ -
3	Total Operating Revenues	\$3,832,485	(\$3,832,485)	\$ -	\$ -	\$ -
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$2,907,906 \$439,680 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	\$2,907,906 \$439,680 \$ -	\$ - \$ - \$ - \$ - \$ -	\$2,907,906 \$439,680 \$ -
9	Subtotal (lines 4 to 8)	\$3,347,586	\$ -	\$3,347,586	\$ -	\$3,347,586
10	Deemed Interest Expense	\$183,080	(\$183,080)	<u> </u>	\$ -	\$ -
11	Total Expenses (lines 9 to 10)	\$3,530,666	(\$183,080)	\$3,347,586	\$ -	\$3,347,586
12	Utility income before income taxes	\$301,819	(\$3,649,405)	(\$3,347,586)	\$ -	(\$3,347,586)
13	Income taxes (grossed-up)	\$16,330	\$ -	\$16,330	\$ -	\$16,330
14	Utility net income	\$285,489	(\$3,649,405)	(\$3,363,916)	\$ -	(\$3,363,916)

Notes Other Revenues / Revenue Offsets

(1)

Specific Service Charges Late Payment Charges	\$179,571 \$89,347		\$ -		\$ -
Other Distribution Revenue	\$09,347 \$-		5 - \$ -		5 - \$ -
Other Income and Deductions	\$ -		\$ -		\$ -
Total Revenue Offsets	\$268,918	<u> </u>	<u> </u>	<u> </u>	<u> </u>

4

Contario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers

Taxes/PILs

Line No.	Particulars	Application		Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$285,489	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$193,111)	\$ -	\$ -
3	Taxable income	\$92,378	<u> </u>	<u> </u>
	Calculation of Utility income Taxes			
4	Income taxes	\$13,881	\$13,881	\$13,881
6	Total taxes	\$13,881	\$13,881	\$13,881
7	Gross-up of Income Taxes	\$2,450	\$2,450	\$2,450
8	Grossed-up Income Taxes	\$16,330	\$16,330	\$16,330
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$16,330	\$16,330	\$16,330
10	Other tax Credits	\$ -	\$ -	\$ -
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	4.50% 10.50% 15.00%	4.50% 10.50% 15.00%	4.50% 10.50% 15.00%

Notes

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers

Capitalization/Cost of Capital

Line No.	Particulars	Capitaliz	ation Ratio	Cost Rate	Return
		Initial A	pplication		
	Debt	(%)	(\$)	(%)	(\$)
1 2 3	Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$4,349,121 \$310,652 \$4,659,773	4.09% 1.65% 3.93%	\$177,954 \$5,126 \$183,080
4 5 6	Equity Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$3,106,515 \$ - \$3,106,515	9.19% 0.00% 9.19%	\$285,489 <u>\$ -</u> \$285,489
7	Total	100.00%	\$7,766,288	6.03%	\$468,569
1 2 3	Debt Long-term Debt Short-term Debt Total Debt Equity	(%) 0.00% 0.00% 0.00%	(\$) \$ - \$ - \$ - \$ -	(%) 0.00% 0.00%	(\$) \$ - \$ - \$ -
4 5 6	Common Equity Preferred Shares Total Equity	0.00% 0.00% 0.00%	\$ - \$ - \$ -	0.00% 0.00%	\$ - <u>\$ -</u> \$ -
7	Total	0.00%	\$7,766,288	0.00%	\$ -
		Per Boar	d Decision		
	Debt	(%)	(\$)	(%)	(\$)
8 9 10	Long-term Debt Short-term Debt Total Debt	0.00% 0.00% 0.00%	\$ - \$ - \$ -	4.09% 1.65% 0.00%	\$ - \$ - \$ -
11 12 13	Equity Common Equity Preferred Shares Total Equity	0.00% 0.00% 0.00%	\$ - \$ - \$ -	9.19% 0.00% 0.00%	\$ - <u>\$ -</u> \$ -

0.00%

Notes

14

Total

\$7,766,288

0.00%

\$ -

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers

Revenue Deficiency/Sufficiency

		Initial Appl	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 4	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net Total Revenue	\$3,020,247 \$268,918 \$3,289,165	\$619,988 \$2,943,579 \$268,918 \$3,832,485	\$3,020,247 \$ - \$3,020,247	\$385,105 \$3,178,462 \$ - \$3,563,567	\$ - \$ - \$ -	\$3,938,336 (\$3,938,336) \$ - \$ -
-		\$3,209,103	<i>\$</i> 3,032,403	ψ0,020,241	\$3,303,307	φ -	φ-
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$3,347,586 \$183,080 \$3,530,666	\$3,347,586 \$183,080 \$3,530,666	\$3,347,586 \$- \$3,347,586	\$3,347,586 \$ - \$3,347,586	\$3,347,586 \$- \$3,347,586	\$3,347,586 \$ - \$3,347,586
9	Utility Income Before Income Taxes	(\$241,501)	\$301,819	(\$327,339)	\$215,981	(\$3,347,586)	(\$3,347,586)
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$193,111)	(\$193,111)	(\$193,111)	(\$193,111)	\$ -	\$ -
11	Taxable Income	(\$434,612)	\$108,708	(\$520,450)	\$22,870	(\$3,347,586)	(\$3,347,586)
12 13	Income Tax Rate	15.00% \$ -	15.00% \$16,306	15.00% \$ -	15.00% \$3,431	15.00% \$ -	15.00% \$ -
14	Income Tax on Taxable Income Income Tax Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Utility Net Income	(\$241,501)	\$285,489	(\$327,339)	(\$3,363,916)	(\$3,347,586)	(\$3,363,916)
16	Utility Rate Base	\$7,766,288	\$7,766,288	\$7,766,288	\$7,766,288	\$7,766,288	\$7,766,288
17	Deemed Equity Portion of Rate Base	\$3,106,515	\$3,106,515	\$ -	\$ -	\$ -	\$ -
18	Income/(Equity Portion of Rate Base)	-7.77%	9.19%	0.00%	0.00%	0.00%	0.00%
19	, Target Return - Equity on Rate Base	9.19%	9.19%	0.00%	0.00%	0.00%	0.00%
20	Deficiency/Sufficiency in Return on Equity	-16.96%	0.00%	0.00%	0.00%	0.00%	0.00%
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	-0.75% 6.03%	6.03% 6.03%	-4.21% 0.00%	0.00% 0.00%	-43.10% 0.00%	0.00% 0.00%
23	Deficiency/Sufficiency in Rate of Return	-6.79%	0.00%	-4.21%	0.00%	-43.10%	0.00%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$285,489 \$526,990 \$619,988 ⁽¹⁾	\$285,489 (\$0)	\$ - \$327,339 \$385,105 ⁽¹⁾	\$ - \$ -	\$ - \$3,347,586 \$3,938,336 ⁽¹⁾	\$ - \$ -

Notes:

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

Contario Energy Board

Revenue Requirement Workform (RRWF) for 2017 Filers

Revenue Requirement

Line No.	Particulars	Application			i 	Per Board Decision	
1	OM&A Expenses	\$2,907,906		\$2,907,906		\$2,907,906	
2	Amortization/Depreciation	\$439,680		\$439.680		\$439,680	
3	Property Taxes	φ+00,000 \$ -		φ+00,000		φ+00,000	
5	Income Taxes (Grossed up)	\$16,330		\$16,330		\$16,330	
6	Other Expenses	\$ -		φ10,000		φ10,000	
7	Return	ψ-					
'	Deemed Interest Expense	\$183,080		\$ -		\$ -	
	Return on Deemed Equity	\$285,489		\$ -		\$ \$-	
	Retain on Deemed Equity	φ200,400	_	Ψ-	_	Ψ-	
8	Service Revenue Requirement						
•	(before Revenues)	\$3,832,485		\$3,363,916		\$3,363,916	
9	Revenue Offsets	\$268,918		\$ -		\$ -	
10	Base Revenue Requirement	\$3,563,567		\$3,363,916		\$3,363,916	
	(excluding Tranformer Owership Allowance credit adjustment)		_	<u> </u>	_	<u> </u>	
11	Distribution revenue	\$3,563,567		\$ -		\$ -	
12	Other revenue	\$268,918		\$ -	_	\$ -	
13	Total revenue	\$3,832,485		\$ -	_	\$ -	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	(\$0)	(1)	(\$3,363,916)	(1)	(\$3,363,916)	(1)

Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application		Δ% ⁽²⁾	Per Board Decision	Δ% (2
Service Revenue Requirement Grossed-Up Revenue	\$3,832,485	\$3,363,916	(\$0)	\$3,363,916	(\$1
Deficiency/(Sufficiency)	\$619,988	\$385,105	(\$0)	\$3,938,336	(\$1
Base Revenue Requirement (to be					
recovered from Distribution Rates)	\$3,563,567	\$3,363,916	(\$0)	\$3,363,916	(\$1
Revenue Deficiency/(Sufficiency) Associated with Base Revenue					
Requirement	\$543,320	\$ -	(\$1)	\$ -	(\$1

Notes (1)

(2)

Line 11 - Line 8

Percentage Change Relative to Initial Application

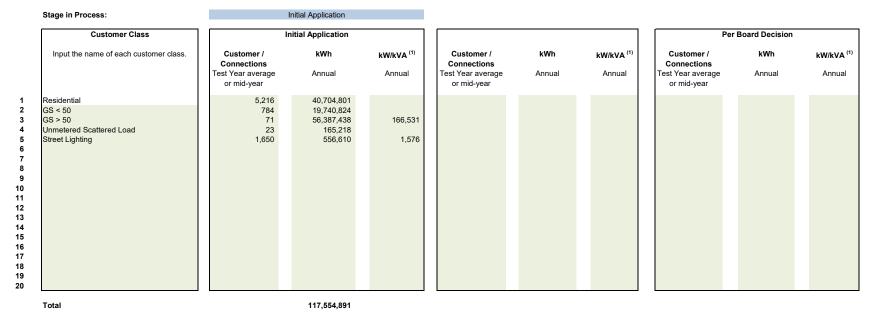
Contario Energy Board Revenue Requirement Workform (RRWF) for 2017 Filers

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-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)

Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2017 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 ious Studv ⁽¹⁾	%		llocated Class nue Requirement (1) (7A)	%
1 Residential	\$ \$	2,028,244	63.58%	\$	2,632,892	68.70%
2 GS < 50		548,117	17.18%	\$	634,753	16.56%
3 GS > 50	\$	365,214	11.45%	\$	339,352	8.85%
4 Unmetered Scattered Load 5 Street Lighting	\$ \$	5,603 242,772	0.18% 7.61%	\$ \$	6,769 218,720	0.18% 5.71%
7 8 9 10 11 12 13 14 15 16 17 18 19 20 Total	\$	3,189,950	100.00%	\$	3,832,486	100.00%
Total	φ	3, 189,950	100.00%	Þ	პ, შ პ∠,48ხ	100.00%
			Service Revenue Requirement (from Sheet 9)	\$	3,832,485.11	

(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		LF X current proved rates X (1+d)	LF X	Proposed Rates	r	Miscellaneous Revenues
		(7B)		(7C)		(7D)		(7E)
1 Residential 2 GS < 50 3 GS > 50 4 Unmetered Scattered Load 5 Street Lighting 6 7 8 9 10 11 12 13 14 15 16 17 18	\$\$ \$\$ \$\$ \$\$	2,018,525 577,869 270,068 6,725 147,061	\$\$ \$\$ \$\$ \$\$	2,381,641 681,824 318,652 7,935 173,516	\$ \$ \$ \$ \$	2,381,807 681,824 318,652 7,759 173,525	\$ \$ \$ \$ \$	170,421 52,124 37,174 364 8,835
19 20 Total		3,020,248	\$	3,563,568	\$	3,563,567	\$	268,918

(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)	
	2015			
	%	%	%	%
1 Residential	103.42%	96.93%	96.94%	85 - 115
2 GS < 50	109.43%	115.63%	115.63%	80 - 120
3 GS > 50	86.90%	104.85%	104.85%	80 - 120
4 Unmetered Scattered Load	94.70%	122.60%	120.00%	80 - 120
5 Street Lighting	70.00%	83.37%	83.38%	80 - 120
7 8 9 0 1 2 3 3 4 5 5 6 7 8 9 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.

(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	
	2017	2018	2019	
1 Residential	96.94%	96.94%	96.94%	85 - 115
2 GS < 50	115.63%	115.63%	115.63%	80 - 120
3 GS > 50	104.85%	104.85%	104.85%	80 - 120
4 Unmetered Scattered Load	120.00%	120.00%	120.00%	80 - 120
5 Street Lighting 6 7 8 9 0 1 2 3 4 5 6 7 8 9 9	83.38%	83.38%	83.38%	80 - 120

(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'.

Antario Energy Board

Revenue Requirement Workform (RRWF) for 2017 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		5,216					
kWh		40,704,801					
Proposed Residential Class Specific	\$	2,381,807.00					
Revenue Requirement ¹							
Residential Base Rates on Current Tariff							

Distribution Volumetric Rate (\$/kWh) \$	\$ 24.25
	\$ 0.0123

B Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	24.25	5,216	\$ 1,517,856.00	75.20%
Variable	0.0123	40,704,801	\$ 500,669.05	24.80%
TOTAL	-	-	\$ 2,018,525.05	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy	
Transition Years ²	3

	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	\$ 1,791,030.56	28.61	\$	1,790,757.12			
Variable	\$ 590,776.44	0.0145	\$	590,219.61			
TOTAL	\$ 2,381,807.00	-	\$	2,380,976.73			

					Revenue	
		Revenue @ new		Final Adjusted		Reconciliation @
	New F/V Split	F/V Split	Adjusted Rates			
Fixed	83.46%	\$ 1,987,956.04	\$	31.76	\$	1,987,921.92
Variable	16.54%	\$ 393,850.96	\$	0.0097	\$	394,836.57
TOTAL	-	\$ 2,381,807.00		-	\$	2,382,758.49

Checks ³	
Change in Fixed Rate	\$ 3.15
Difference Between Revenues @	\$951.49
Proposed Rates and Class Specific	0.04%

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. A distributor transitioning to fully fixed rates over a four year period and began the transition in 2016 would input the number "3" into cell D40. A distributor transitioning over a five-year period would input the number "4". Where the change in the residential rate design will result in the fixed charge increasing by more than \$4/year, a distributor may propose an additional transition year.
- 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)

Contario Energy Board

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 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, laxes/PILs, etc.

Stage in Process: Initial Application						Class A	located Reve	nues							Dist	ribution Rates			R	evenue Reconciliati	on
	Customer and Lo	ad Forecast			From Sh		ost Allocation ntial Rate Des		ieet 12.	Fixed / Varia Percentage to b fraction betw	e entered as a										
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Class Revenue Requiremen	50	Monthly rvice Charge	Vo	lumetric	Fixed	Variable	Transformer Ownership Allowance ¹ (2	11	Monthly Servic Rate	e Charge No. of decimals	Vo Rate	lumetric R	ate No. of decimals	MSC Revenues	Volumetric revenues	Distribution Revenues less Transformer Ownership
1 Residential 2 GS < 50	KWh KW KW KW KW	5,216 784 71 23 1,650 - - - - - - - - - - - - - - - - - - -	40,704,801 19,740,824 56,387,438 165,218 556,610 - - - - - - - - - - - - - - - - - - -	166,531 1.576 - - - - - - - - - - - - - - - - - - -	\$ 2,381,8 \$ 661,8; \$ 318,6 \$ 7,7; \$ 173,5;	24 \$ 52 \$ 59 \$	1,987,956 313,849 163,243 4,690 158,638		393,851 368,015 155,409 3,069 14,887	83.46% 46.02% 51.23% 90.45% 91.42%	16.54% 53.96% 48.77% 39.55% 8.58%	\$ 46,00	0	\$31.76 \$33.36 \$191.60 \$16.99 \$8.01	2	\$0.0097 \$0.0186 \$1.2094 \$0.0186 \$9.4462	/kWh /kW /kWh	4	\$ 1.897.021.02 3 \$ 313.850.88 \$ 163.243.20 \$ 4.689.24 \$ 158.598.00 \$ 5 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 334,836.607 \$ 367,179.3264 \$ 201,402.5914 \$ 201,402.5914 \$ 3,073.0548 \$ 14,887.212 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,382,758.40 \$ 661,030.21 \$ 318,645.79 \$ 7,762.29 \$ 173,485.21 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
									T	Total Transformer Own	ership Allowance	\$ 46,00	0						Total Distribution Rev	venues	\$ 3,563,681.99
Notes: ¹ Transformer Ownership Allowance is	s entered as a positive a	mount, and only for t	those classes to wh	nich it applies.												Rates recover	revenue re		Base Revenue Requir Difference % Difference	rement	\$ 3,563,567.11 \$ 114.88 0.003%

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).

Contario Energy Board Revenue Requirement Workform (RRWF) for 2017 Filers

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

			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Оре	erating Expense	es	Revenue Requirement				
R	eference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Regulated Ra Return on Rate of Capital Return		Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues			
		Original Application	\$ 468,569	6.03%	\$ 7,766,288	\$ 18,892,797	\$ 1,416,960	\$ 439,680	\$ 16,330	\$ 2,907,906	\$ 3,832,485	\$ 268,918	\$ 3,563,567	\$ 619,988	