

Exhibit 7

COST ALLOCATION

Exhibit: 7

Page: 1 of 10

Filed: April 30, 2019

Table of Contents

E	xhibit 7: Cost Allocation	2
	7.1 Cost Allocation Study Requirements	2
	7.1.1 Introduction	2
	7.1.2 Load Profiles	2
	7.1.3 Cost Allocation Inputs	3
	7.1.4 Embedded Distributor	5
	7.1.5 Unmetered Loads	6
	7.1.6 microFIT Class	7
	7.1.7 New Customer Class	7
	7.1.8 Eliminate a Customer Class	7
	7.1.9 Standby Rates	7
	7.2 Class Revenue Requirements	7
	7.3 Revenue-to-Cost Ratios	9
	7.3.1 Cost Allocation Results and Analysis	10
	Appendix 7-1: Cost Allocation Model	
	Appendix 7-2: Required OEB Filing Appendices	
	Appendix 7-3: WNHI Communication	



Exhibit: 7

Page: 2 of 10

Filed: April 30, 2019

Exhibit 7: Cost Allocation

7.1 Cost Allocation Study Requirements

7.1.1 Introduction

The OEB outlined its cost allocation policies in its reports of November 28, 2007 Application of Cost Allocation for Electricity Distributors, and March 31, 2011 Review of Electricity Distribution Cost Allocation Policy (EB-2010-0219). These are referred to here as the "Cost Allocation Reports".

In this Application, KWHI has used the 2019 version of the Cost Allocation Model released by the OEB on July 12, 2018 to conduct a 2020 Test Year Cost Allocation study consistent with the OEB's cost allocation policies. The model has been loaded with 2020 Test Year costs, customer numbers and demand values for KWHI. The 2020 demand values were determined based on the description provided under the Load Profiles section of this Exhibit. The various weighting factors used in the 2020 study have also been explained below.

7.1.2 Load Profiles

In a letter dated June 12, 2015, the OEB requested distributors to be mindful of material changes to load profiles and propose updates, as appropriate, in cost of service rate applications. KWHI proposes to use the same method as was used in the 2014 Cost of Service application to determine the demand data for the 2020 cost allocation model. This method involves applying a scaling factor to the 2004 weather normalized volumes supporting the 2004 load profiles to determine an estimate of the 2020 weather normalized load profiles. Then the same method applied by Hydro One to the 2004 load profiles to determine the demand data for the original cost allocation study, is applied to the 2020 load profiles to determine the 2020 demand data. KWHI has



Exhibit: 7

Page: 3 of 10

Filed: April 30, 2019

provided an Excel spreadsheet named "Load profile model 2004 Hydro One data for 2020" to show how the 2020 demand data is determined.

In order to be prepared for the next cost of service application, KWHI will put in place a process to prepare a load profile for each actual year after 2016. This will provide more than one year of data to review the load profiles for the next cost of service application. Also, KWHI anticipates that by the time the next cost of service application is prepared, the OEB may prescribe a method to weather normalize actual hourly data which KWHI will be able to follow.

7.1.3 Cost Allocation Inputs

In the March 31, 2011 Cost Allocation Report, the OEB stated that "default weighting factors should now be utilized only in exceptional circumstances". Distributors are expected to develop their own weighting factors as part of their cost allocation study. KWHI has developed its own weighting factors as outlined below.

Services (Account 1855)

To determine the weighting factor to be used for each customer class, the cost of installing a typical service for each customer class was determined. A weighting factor was determined by assigning the Residential customer class a factor of 1, as required, and determining the relative weights of the rest of the classes. The results are presented in Table 7.1.3-1 below:



Exhibit: 7

Page: 4 of 10

Filed: April 30, 2019

Table 7.1.3-1 – Weighting Factors - Services

	Weighting Factor
Residential	1.0
GS<50 kW	1.5
GS>50 kW	12.0
Large User	24.0
Street Lighting	1.0
Unmetered Scattered Load	1.0

Billing and Collecting

To determine the weighting factor to be used for each customer class, the cost for Billings and Collections were totaled and allocated to a typical bill for each customer class. A weighting factor was determined by assigning the Residential customer class a factor of one, as required, and determining the relative weights of the rest of the classes. The results are presented in Table 7.1.3-2 below:

Table 7.1.3-2 – Weighting Factors - Billing and Collecting

	Weighting
	Factor
Residential	1.0
GS<50 kW	1.3
GS>50 kW	2.0
Large User	2.0
Street Lighting	1.5
Unmetered Scattered Load	1.5

Meter Capital

KWHI assessed the costs of installing meters using recent meter installation work orders. The installation costs are presented in <u>Table 7.1.3-3</u> below.



Exhibit: 7

Page: 5 of 10

Filed: April 30, 2019

Table 7.1.3-3 – Meter Capital Weights

Meter Type	Cost
Conventional Demand	627
Conventional Demand Primary	1,836
Demand with IT and Interval Capability - Secondary	2,152
Demand with IT and Interval Capability - Primary	9,440
Smart Meter	157
Suite Meter	325

Meter Reading

KWHI has converted all its Residential and GS<50 kW customers to smart meters. Meter reading costs for smart meters have been assigned a weighting factor of one. As shown in <u>Table 7.1.3-4</u>, the effort and cost for reading other types of meters are compared to the smart meter reading costs to determine an appropriate weight.

Table 7.1.3-4 – Meter Reading Weights

Meter Type	Weight
Smart	1.00
Suite	1.20
Interval	19.90
Unmetered	22.90

7.1.4 Embedded Distributor

KWHI is a host distributor to Waterloo North Hydro Inc. (WNHI). KWHI has an existing Embedded Distributor Service Classification for WNHI. As per Board direction in EB-2009-0267, KWHI incorporated the Embedded Distributor into its Cost Allocation model in 2014 (EB-2013-0147). In KWHI's 2014 Cost of Service filing, KWHI used a cost allocation method consistent with Appendix 2-Q of the Filing Requirement Chapter 2 Appendices. KWHI has followed the same approach in allocating costs to the Embedded Distributor in 2020. The cost allocation model also apportions return on



Exhibit: 7

Page: 6 of 10

Filed: April 30, 2019

debt, return on equity, PILs, administration costs and general plant assets. The sum of these costs plus the costs directly assigned to the embedded distributor through Appendix 2-Q are the total costs assigned to the Embedded Distributor class.

KWHI input the costs of Appendix 2-Q into tab I.9 of the cost allocation model. Appendix 2-Q is attached to this Exhibit as Appendix 7-2

Feedback from the Embedded Distributor

KWHI received feedback from WNHI they do not like the large increase, but they understand the methodology. The 2019 Cost Allocation model used for this Application is different from the Cost Allocation model used in the 2014 Cost of Service Application. The updated model allocates to the embedded distributor expenses for General and Administration, Depreciation and Amortization, PILs, Interest and Allocated Net income. This amount of \$75,107 is the driver of the large increase.

KWHI has provided the cost allocation and rate design information to its Embedded Distributor. This correspondence is included in Appendix 7-3.

7.1.5 Unmetered Loads

KWHI communicates with unmetered load customers, including streetlighting customers, to assist them in understanding the regulatory context in which distributors operate and how it affects unmetered load customers. This communication takes place on an on-going basis and is not driven by the rate application process.

KWHI has used the "streetlight adjustment factor" to allocate costs to the Streetlighting class as outlined in the Board's June 12, 2015 letter.

Exhibit: 7

Page: 7 of 10

Filed: April 30, 2019

7.1.6 microFIT Class

KWHI is not proposing to include microFIT as a separate class in the cost allocation model in 2020. KWHI understands that the cost allocation model will produce a calculation of unit costs which the OEB may use to update the uniform microFIT rate at a future date.

7.1.7 New Customer Class

KWHI is not proposing to include a new customer class in this Application.

7.1.8 Eliminate a Customer Class

KWHI is not proposing to eliminate a customer class in this Application.

7.1.9 Standby Rates

On April 2, 2015 the OEB issued a *Board Policy of Rate Design for Electricity Residential Customers* in which the Board stated that it intends to remove the standby charge when the new rate policy is implemented for commercial customers. To date, a new rate policy for commercial customers has not been implemented and KWHI will continue its current standby rate which is approved on an interim basis.

7.2 Class Revenue Requirements

The data used in the updated cost allocation study is consistent with KWHI's cost data that supports the proposed 2020 revenue requirement outlined in this Application. KWHI's assets were broken out into primary and secondary distribution functions using updated breakout percentages. The breakout of assets, capital contributions, depreciation, accumulated depreciation, customer data and load data by primary, line



Exhibit: 7

Page: 8 of 10

Filed: April 30, 2019

transformer and secondary categories were developed from the best data available to KWHI, its engineering records, and its customer and financial information systems. A live Excel version of the updated cost allocation study has been included with the filed application material (EB-2019-0049_KWHI_Appl_2019_Cost_Allocation_Model_20190430). In addition, Appendix 7-1 outlines Input Sheets I-6 and I-8 and Output Sheets O-1 and O-2 (first page only).

Capital contributions, depreciation and accumulated depreciation by USoA are consistent with the information provided in the 2020 continuity statement shown in Exhibit 2. The rate class customer data used in the updated cost allocation study is consistent with the 2020 customer forecast outlined in Exhibit 3.

The following <u>Table 7.2-1</u> provides the combined allocated OEB Approved cost by rate class from the former 2014 cost allocation study along with the KWHI results from the 2020 cost allocation study.

Table 7.2-1 – Allocated Costs

	2014 Board Approved Cost Allocation Study	%	2020 Proposed Cost Allocation Study	%
Residential	23,916,302	59.0%	26,312,908	57.8%
GS<50 kW	5,246,278	12.9%	6,195,147	13.6%
GS>50 kW	10,531,674	26.0%	12,087,641	26.6%
Large User	265,721	0.7%	297,667	0.7%
Street Lighting	360,292	0.9%	334,895	0.7%
Unmetered Scattered Load	104,301	0.3%	151,850	0.3%
Embedded Distributor	98,174	0.2%	147,161	0.3%
	40,522,742	100.0%	45,527,270	100.0%



Exhibit: 7

Page: 9 of 10

Filed: April 30, 2019

7.3 Revenue-to-Cost Ratios

The results of a cost allocation study are typically presented in the form of revenue to cost ratios. The ratio is shown by rate classification and is the percentage of distribution revenue collected by rate classification compared to the costs allocated to the classification. The percentage identifies the rate classifications that are being subsidized and those that are over-contributing. A percentage of less than 100% means the rate classification is under-contributing and is being subsidized by other classes of customers. A percentage of greater than 100% indicates the rate classification is over-contributing and is subsidizing other classes of customers.

In the March 31, 2011 Cost Allocation Board Report, the Board established what it considered to be the appropriate ranges of revenue to cost ratios which are summarized in Table 7.3-1 below. The Streetlight class is shown with the targets as established in the OEB's June 12, 2015 letter. In addition, <u>Table 7.3-1</u> provides the approved revenue to cost ratios from KWHI's 2014 Cost of Service (EB-2013-0147) compared to the proposed ratios and the OEB Min and Max targets.

Table 7.3-1 – Revenue to Cost Ratios

	2014 Board Approved Cost Allocation	2020 Cost Allocation Study	2020 Proposed Ratios	ОЕВ Т	arget
	Study	Staay		Min	Max
Residential	93.9%	98.0%	97.5%	85%	115%
GS<50 kW	107.8%	121.1%	120.0%	80%	120%
GS>50 kW	109.1%	95.6%	97.0%	80%	120%
Large User	93.9%	99.9%	100.0%	85%	115%
Street Lighting	120.0%	128.1%	120.0%	80%	120%
Unmetered Scattered Load	120.0%	113.7%	110.0%	80%	120%
Embedded Distributor	100.0%	61.5%	80.0%	80%	120%



Exhibit: 7

Page: 10 of 10

Filed: April 30, 2019

7.3.1 Cost Allocation Results and Analysis

The 2020 Cost Allocation study shows that the Residential, GS>50 kW, Unmetered Scattered Load, and Large Use rate classes fall within the OEB target range. The GS<50 kW and Streetlighting rate classes are higher than OEB targets, and the Embedded distributor is below target. It is proposed that all rate classes be brought into the target range.

<u>Table 7.3-2</u> below shows the proposed class revenue for this Application. This class revenue will be used in Exhibit 8 to design the proposed distribution charges for this application.

Table 7.3-2 – Calculated Class Revenue

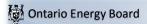
Rate Class	2020 Base Revenue at Existing Rates	2020 Proposed Base Revenue Allocated at Existing Rates Proportion	2020 Proposed Base Revenue	Miscellaneous Revenue
Residential	24,434,731	26,452,610	26,312,908	2,202,216
GS<50 kW	5,777,716	6,254,854	6,195,147	349,463
GS>50 kW	10,988,302	11,895,742	12,087,641	637,584
Large User	274,541	297,214	297,667	18,053
Street Lighting	331,182	358,532	334,895	18,526
Unmetered Scattered Load	145,247	157,242	151,850	10,097
Embedded Distributor	102,603	111,076	147,161	7,961
	42,054,323	45,527,270	45,527,270	3,243,900



Exhibit: 7

Filed: April 30, 2019

Appendix 7-1: Cost Allocation Model



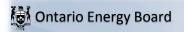
EB-2019-0049

Sheet IS Demand Data Worksheet -

This is an input sheet for demand allocators.

CP TEST RESULTS	12 CP
NCP TEST RESULTS	4 NCP
Co-incident Peak	Indicator
1 CP	CP 1
4 CP	CP 4
12 CP	CP 12
Non-co-incident Peak	Indicator
1 NCP	NCP 1
4 NCP	NCP 4
12 NCP	NCP 12

			1	2	5	6	7	9	10
Customer Classes		Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
		CP Sanity Check	Pass	Check 4CP	Pass	Check 4CP and 12CP	Check 4CP and 12CP	Check 4CP	Pass
CO-INCIDENT	PEAK	Samily Check	газэ	Check 4CF	газэ	1207	1207	CHECK 4CF	газэ
1 CP									
Transformation CP	TCP1	298,811	136,710	33,376	124,215	4,028	-	482	
Bulk Delivery CP	BCP1	298,811	136,710	33,376	124,215	4,028	-	482	
Total Sytem CP	DCP1	298,811	136,710	33,376	124,215	4,028	-	482	
4 CP									
Transformation CP	TCP4	1,162,082	537,919	138,080	462,020	17,047	5,080	1,937	
Bulk Delivery CP	BCP4	1,162,082	537,919	138,080	462,020	17,047	5,080	1,937	
Total Sytem CP	DCP4	1,162,082	537,919	138,080	462,020	17,047	5,080	1,937	
40.00									
12 CP	TODAO	3,202,708	1,398,822	392,189	1,342,024	E2 107	11,851	5,716	
			1.398.822	392,189		52,107			
Transformation CP	TCP12			000 400	4 0 40 00 4				
Bulk Delivery CP	BCP12	3,202,708	1,398,822	392,189	1,342,024	52,107	11,851	5,716	
				392,189 392,189	1,342,024 1,342,024	52,107 52,107	11,851 11,851	5,716 5,716	
Bulk Delivery CP Total Sytem CP	BCP12 DCP12	3,202,708	1,398,822						
Bulk Delivery CP	BCP12 DCP12	3,202,708 3,202,708	1,398,822						
Bulk Delivery CP Total Sytem CP	BCP12 DCP12	3,202,708 3,202,708 NCP	1,398,822 1,398,822	392,189	1,342,024	52,107	11,851	5,716	Pass
Bulk Delivery CP Total Sytem CP	BCP12 DCP12	3,202,708 3,202,708	1,398,822						Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDE!	BCP12 DCP12	3,202,708 3,202,708 NCP	1,398,822 1,398,822	392,189	1,342,024	52,107	11,851	5,716	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDER 1 NCP Classification NCP from	BCP12 DCP12 NT PEAK	3,202,708 3,202,708 NCP Sanity Check	1,398,822 1,398,822 Pass	392,189 Pass	1,342,024 Pass	52,107 Pass	11,851 Pass	5,716	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP	BCP12 DCP12 NT PEAK	3,202,708 3,202,708 NCP	1,398,822 1,398,822 Pass	392,189 Pass 40,527	1,342,024 Pass 132,307	52,107 Pass	11,851 Pass	5,716 Pass 498	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDE! 1 NCP Classification NCP from Load Data Provider	BCP12 DCP12 NT PEAK	3,202,708 3,202,708 NCP Sanity Check	1,398,822 1,398,822 Pass	392,189 Pass	1,342,024 Pass	52,107 Pass	11,851 Pass	5,716	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497	1,398,822 1,398,822 Pass	392,189 Pass 40,527 40,313	1,342,024 Pass 132,307 131,610	52,107 Pass	11,851 Pass 1,702 1,693	5,716 Pass 498 495	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906	1,398,822 1,398,822 Pass 144,851 144,087 140,332	9392,189 Pass 40,527 40,313 39,263	1,342,024 Pass 132,307 131,610 128,180	52,107 Pass	11,851 Pass 1,702 1,693 1,649	5,716 Pass 498 495 482	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDENT 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906	1,398,822 1,398,822 Pass 144,851 144,087 140,332	9392,189 Pass 40,527 40,313 39,263	1,342,024 Pass 132,307 131,610 128,180	52,107 Pass	11,851 Pass 1,702 1,693 1,649	5,716 Pass 498 495 482	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332	992,189 Pass 40,527 40,313 39,263 39,263	1,342,024 Pass 132,307 131,610 128,180 128,180	52,107 Pass 5,326 5,298	11,851 Pass 1,702 1,693 1,649 1,649	5,716 Pass 498 495 482 482	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332	992,189 Pass 40,527 40,313 39,263 39,263	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663	52,107 Pass 5,326 5,298 21,195	11,851 Pass 1,702 1,693 1,649 1,649 6,802	5,716 Pass 498 498 495 482 482 1,945	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4 PNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332 562,056 559,093	992,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008	52,107 Pass 5,326 5,298	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766	5,716 Pass 498 495 482 482 1,945 1,935	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDE! 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4 PNCP4 LTNCP4 LTNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906 1,252,445 1,245,842 1,192,840	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332 562,056 559,093 544,523	392,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956 151,892	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008 487,951	52,107 Pass 5,326 5,298 21,195	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766 6,590	5,716 Pass 498 495 482 482 1,945 1,935 1,885	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4 PNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332 562,056 559,093	992,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008	52,107 Pass 5,326 5,298 21,195	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766	5,716 Pass 498 495 482 482 1,945 1,935	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDE! 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 12 NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4 PNCP4 LTNCP4 LTNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906 1,252,445 1,245,842 1,192,840	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332 562,056 559,093 544,523	392,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956 151,892	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008 487,951	52,107 Pass 5,326 5,298 21,195	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766 6,590	5,716 Pass 498 495 482 482 1,945 1,935 1,885	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDENT 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4 PNCP4 LTNCP4 SNCP4 SNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906 1,252,445 1,245,842 1,192,840	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332 562,056 559,093 544,523	392,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956 151,892	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008 487,951	52,107 Pass 5,326 5,298 21,195	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766 6,590	5,716 Pass 498 495 482 482 1,945 1,935 1,885	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDE! 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 12 NCP	DNCP1 DNCP1 DNCP1 DNCP1 DNCP1 DNCP1 DNCP1 DNCP4 PNCP4 DNCP4 SNCP4 DNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906 1,252,445 1,245,842 1,192,840	1,398,822 1,398,822 1,398,822 144,851 144,087 140,332 140,332 140,332 562,056 559,093 544,523 544,523	992,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956 151,892 151,892 440,963	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008 487,951 487,951	52,107 Pass 5,326 5,298 21,195	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766 6,590 6,590	5,716 Pass 498 495 482 482 1,945 1,935 1,885 1,885	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP Classification NCP from	BCP12 DCP12 NT PEAK DNCP1 PNCP1 LTNCP1 SNCP1 DNCP4 PNCP4 LTNCP4 SNCP4 SNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906 1,252,445 1,245,842 1,192,840 1,192,840	1,398,822 1,398,822 1,398,822 Pass 144,851 144,087 140,332 140,332 140,332 562,056 559,093 544,523 544,523	392,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956 151,892 151,892	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008 487,951 487,951	52,107 Pass 5,326 5,298 21,195 21,083	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766 6,590 6,590 20,313 20,206	5,716 Pass 498 495 482 482 1,945 1,935 1,885	Pass
Bulk Delivery CP Total Sytem CP NON CO_INCIDEN 1 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP 4 NCP Classification NCP from Load Data Provider Primary NCP Line Transformer NCP Secondary NCP Line Transformer NCP Secondary NCP Line Transformer NCP Classification NCP from Load Data Provider	DNCP1 DNCP1 DNCP1 DNCP1 DNCP1 DNCP1 DNCP1 DNCP4 PNCP4 DNCP4 SNCP4 DNCP4	3,202,708 3,202,708 NCP Sanity Check 325,211 323,497 309,906 309,906 1,252,445 1,245,842 1,192,840 1,192,840 3,495,132	1,398,822 1,398,822 1,398,822 144,851 144,087 140,332 140,332 140,332 562,056 559,093 544,523 544,523	992,189 Pass 40,527 40,313 39,263 39,263 156,783 155,956 151,892 151,892 440,963	1,342,024 Pass 132,307 131,610 128,180 128,180 503,663 501,008 487,951 487,951	52,107 Pass 5,326 5,298 21,195 21,083	11,851 Pass 1,702 1,693 1,649 1,649 6,802 6,766 6,590 6,590	5,716 Pass 498 495 482 482 1,945 1,935 1,885 1,885	Pass



EB-2019-0049

Sheet I6.1 Revenue Worksheet -

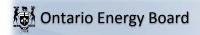
Total kWhs from Load Forecast 1,745,258,478

Total kWs from Load Forecast 2,142,477

Deficiency/sufficiency (RRWF 8. cell F51)

Miscellaneous Revenue (RRWF 5. cell F48) 3,243,900

F
Embedded Distributor
19,053,029
43,316
\$2.3687
\$102,603
\$0
\$102,603



EB-2019-0049

Sheet I6.2 Customer Data Worksheet -

		İ	1 1	2	5	6	7	9	10
	ID	Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
Billing Data									
Bad Debt 3 Year Historical Average	BDHA	\$250,076	\$203,056	\$12,021	\$34,999	\$0	\$0	\$0	\$0
Late Payment 3 Year Historical Average	LPHA	\$209,406	\$159,501	\$23,391	\$25,856	\$51	\$70	\$538	
Number of Bills	CNB	1,190,040	1,080,864	97,632.00	11,256	12.00	96.00	180.00	
Number of Devices	CDEV						25,440		
Number of Connections (Unmetered)	CCON	2,651					1,696	955	
Total Number of Customers	CCA	98,958	89,860	8,136	938	1	8	15	
Bulk Customer Base	CCB	98,958	89,860	8,136	938	1	8	15	
Primary Customer Base	CCP	100,038	89,860	8,136	938	1	1,088	15	
Line Transformer Customer Base	CCLT	99,843	89,860	8,112	768		1,088	15	
Secondary Customer Base	CCS	98,747	89,860	8,112	760			15	
Weighted - Services	cwcs	113,799	89,860	12,168	9,120	-	1,696	955	-
Weighted Meter -Capital	CWMC	17,675,723	13,891,786	1,367,968	2,406,529	9,440	-	-	-
Weighted Meter Reading	CWMR	116,611	88,192	9,064	18,810	20	183	344	-
Weighted Bills	CWNB	1,230,736	1,080,864	126,922	22,512	24	144	270	-

Bad Debt Data

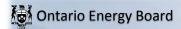
Historic Year:	2015	239,436	218,543	19,888	1,005			
Historic Year:	2016	258,176	229,850	11,428	16,898			
Historic Year:	2017	252,618	160,776	4,747	87,095			
Three-year average		250,076	203,056	12,021	34,999	-		

Street Lighting Adjustment Factors

NCP Test Results	4 NCP

	Primary As	set Data	Line Transformer Asset Data		
	Customers/		Customers/		
Class	Devices	4 NCP	Devices	4 NCP	
Residential	89,860	559,093	89,860	544,523	
Street Light	25,440	6,766	25,440	6,590	

Street Lighting Adj	ustment Factors
Primary	23.3929
Line Transformer	23.3929



EB-2019-0049

Sheet O1 Revenue to Cost Summary Worksheet -

<u>Instructions:</u>
Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

			1	2	5	6	7	9	10
Rate Base Assets		Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
crev	Distribution Revenue at Existing Rates	\$42,054,323	\$24,434,731	\$5,777,716	\$10,988,302	\$274,541	\$331,182	,	\$102,603
mi	Miscellaneous Revenue (mi)	\$3,243,900	\$2,202,216		\$637,584	\$18,053	\$18,526	\$10,097	\$7,961
	Total Revenue at Existing Rates	\$45,298,223	s Revenue Input e \$26,636,947	\$6,127,179	\$11,625,886	\$292,594	\$349,708	\$155,345	\$110,564
	Factor required to recover deficiency (1 + D)	1.0826	\$20,030,941	Φ0,127,179	\$11,023,000	\$252,354	\$349, <i>1</i> 00	\$100,340	\$110,504
	Distribution Revenue at Status Quo Rates	\$45,527,270	\$26,452,610	\$6,254,854	\$11,895,742	\$297,213	\$358,532	\$157,242	\$111,076
	Miscellaneous Revenue (mi)	\$3,243,900	\$2,202,216	\$349,463	\$637,584	\$18,053	\$18,526	\$10,097	\$7,961
	Total Revenue at Status Quo Rates	\$48,771,170	\$28,654,826	\$6,604,317	\$12,533,326	\$315,266	\$377,058	\$167,340	\$119,037
	Total Nevertue at Status Quo Nates	Ψ+0,771,170	Ψ20,034,020	ψ0,004,317	ψ12,333,320	ψ313,200	ψ377,030	\$107,540	ψ115,057
	Expenses								
di	Distribution Costs (di)	\$12,402,365	\$6.980.081	\$1,449,505	\$3.732.988	\$95.778	\$96.641	\$47.371	\$0
cu	Customer Related Costs (cu)	\$5,710,400	\$4,828,658	\$537,489	\$337.819	\$608	\$2,167	\$3,660	\$0
ad	General and Administration (ad)	\$4,277,204	\$2,713,643	\$472,455	\$1,020,969	\$24,350	\$24,384	\$12,458	\$8,946
dep	Depreciation and Amortization (dep)	\$10,987,112	\$6,320,602	\$1,234,884	\$3,240,021	\$75,547	\$69,884	\$34,355	\$11,819
INPUT	PILs (INPUT)	\$922,574	\$507,579	\$106,267	\$289,115	\$7,214	\$6,127	\$2,982	\$3,289
INT	Interest	\$5,785,404	\$3,183,000	\$666,396	\$1,813,023	\$45,235	\$38,420	\$18,702	\$20,627
	Total Expenses	\$40,085,059	\$24,533,563	\$4,466,996	\$10,433,935	\$248,732	\$237,622	\$119,529	\$44,681
	Direct Allocation	\$118,676	\$0	\$0	\$0	\$0	\$0	\$0	\$118,676
NI	Allocated Net Income (NI)	\$8,567,435	\$4,713,611	\$986,846	\$2,684,853	\$66,988	\$56,896	\$27,696	\$30,546
	Revenue Requirement (includes NI)	\$48,771,170	\$29,247,175	\$5,453,842	\$13,118,788	\$315,720	\$294,518	\$147,225	\$193,902
		Revenue Re	quirement Input ed	uals Output					
	Rate Base Calculation								
	Net Assets								
dp	Distribution Plant - Gross	\$456,392,178	\$260,099,590	\$52,382,410	\$135,858,721	\$3,145,114	\$3,283,759	\$1,622,585	\$0
gp	General Plant - Gross	\$49,312,426	\$27,937,388	\$5,648,047	\$14,623,500	\$346,546	\$358,865	\$177,538	\$220,542
accum dep	Accumulated Depreciation	(\$187,278,964)	(\$105,014,546)	(\$21,478,313)	(\$57,477,783)	(\$1,334,124)	(\$1,252,129)		(\$112,222)
со	Capital Contribution	(\$95,302,475)	(\$59,477,237)	(\$10,785,311)	(\$23,266,968)	(\$426,562)	(\$888,611)	(\$457,786)	\$0
	Total Net Plant	\$223,123,165	\$123,545,195	\$25,766,832	\$69,737,470	\$1,730,974	\$1,501,884	\$732,490	\$108,320



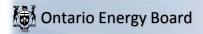
EB-2019-0049

Sheet 01 Revenue to Cost Summary Worksheet -

<u>Instructions:</u>
Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

			1	2	5	6	7	9	10
Rate Base Assets		Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
	Directly Allocated Net Fixed Assets	\$711,691	\$0	\$0	\$0	\$0	\$0	\$0	\$711,691
СОР	Cost of Power (COP) OM&A Expenses Directly Allocated Expenses Subtotal	\$184,677,958 \$22,389,969 \$37,632 \$207,105,558	\$72,596,972 \$14,522,382 \$0 \$87,119,354	\$24,780,890 \$2,459,449 \$0 \$27,240,338	\$82,144,603 \$5,091,775 \$0 \$87,236,378	\$3,762,091 \$120,736 \$0 \$3,882,827	\$783,398 \$123,191 \$0 \$906,589	\$447,429 \$63,489 \$0 \$510,918	\$162,576 \$8,946 \$37,632 \$209,153
	Working Capital	\$15,532,917	\$6,533,952	\$2,043,025	\$6,542,728	\$291,212	\$67,994	\$38,319	\$15,686
	Total Rate Base	\$239,367,773	\$130,079,146	\$27,809,858	\$76,280,198	\$2,022,186	\$1,569,878	\$770,809	\$835,697
		Rate E	ase Input equals (Output					
	Equity Component of Rate Base	\$21,495,226	\$11,681,107	\$2,497,325	\$6,849,962	\$181,592	\$140,975	\$69,219	\$75,046
	Net Income on Allocated Assets	\$8,567,435	\$4,121,263	\$2,137,321	\$2,099,391	\$66,534	\$139,436	\$47,810	(\$44,320)
	Net Income on Direct Allocation Assets	\$30,655	\$0	\$0	\$0	\$0	\$0	\$0	\$30,655
	Net Income	\$8,598,090	\$4,121,263	\$2,137,321	\$2,099,391	\$66,534	\$139,436	\$47,810	(\$13,665)
	RATIOS ANALYSIS								
	REVENUE TO EXPENSES STATUS QUO%	100.00%	97.97%	121.09%	95.54%	99.86%	128.03%	113.66%	61.39%
	EXISTING REVENUE MINUS ALLOCATED COSTS	(\$3,472,947)	(\$2,610,228)	\$673,338	(\$1,492,902)	(\$23,126)	\$55,190	\$8,120	(\$83,338)
		Deficie	ency Input equals	Output					
	STATUS QUO REVENUE MINUS ALLOCATED COSTS	(\$0)	(\$592,349)	\$1,150,475	(\$585,462)	(\$454)	\$82,540	\$20,115	(\$74,865)
	RETURN ON EQUITY COMPONENT OF RATE BASE	40.00%	35.28%	85.58%	30.65%	36.64%	98.91%	69.07%	-18.21%



EB-2019-0049

Sheet O2 Monthly Fixed Charge Min. & Max. Worksheet -

Output sheet showing minimum and maximum level for **Monthly Fixed Charge**

<u>Summary</u>
Customer Unit Cost per month - Avoided Cost
Customer Unit Cost per month - Directly Relat
Customer Unit Cost per month - Minimum Sys

Existing Approved Fixed Charge

with PLCC Adjustment

1	2	5	6	7	9	10
Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
\$4.88	\$5.77	\$42.71	\$68.93	\$0.07	\$0.23	0
\$5.90	\$7.05	\$51.44	\$88.52	\$0.09	\$0.31	0
\$14.84	\$18.30	\$100.79	\$91.52	\$7.56	\$7.75	0
\$22.66	\$27.76	\$183.23	\$17,188.81	\$0.75	\$7.43	\$0.00

Information to be Used to	Allocate PILs,	ROD,
ROE and A&G		

		1	2	5	6	7	9	10
on to be Used to Allocate PILs, ROD, A&G	Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
General Plant - Gross Assets General Plant - Accumulated Depreciation General Plant - Net Fixed Assets	\$49,312,426 (\$25,092,383) \$24,220,043	\$27,937,388 (\$14,215,801) \$13,721,587	\$5,648,047 (\$2,873,981) \$2,774,066	\$14,623,500 (\$7,441,095) \$7,182,405	\$346,546 (\$176,338) \$170,208	\$358,865 (\$182,607) \$176,258	\$177,538 (\$90,339) \$87,199	\$220,542 (<mark>\$112,222)</mark> \$108,320
General Flant - Net Fixed Assets	\$24,220,043	\$13,721,307	\$2,774,000	\$7,102,405	\$170,200	\$170,230	φο7,199	\$100,320
General Plant - Depreciation	\$2,642,700	\$1,497,191	\$302,684	\$783,687	\$18,572	\$19,232	\$9,514	\$11,819
Total Net Fixed Assets Excluding General Plant	\$199,614,813	\$109,823,608	\$22,992,766	\$62,555,065	\$1,560,766	\$1,325,626	\$645,292	\$711,691
Total Administration and General Expense	\$4,277,204	\$2,713,643	\$472,455	\$1,020,969	\$24,350	\$24,384	\$12,458	\$8,946
Total O&M	\$18,143,600	\$11,808,739	\$1,986,994	\$4,070,807	\$96,386	\$98,807	\$51,031	\$30,836

Scenario 1

Accounts included in Avoided Costs Plus General Administration Allocation

			1	2	5	6	7	9	10
USoA Account #	Accounts	Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
	Distribution Plant	L	<u> </u>	Į.		-		<u> </u>	
1860	Meters	\$19,396,537	\$15,244,216	\$1,501,146	\$2,640,816	\$10,359	\$0	\$0	\$0
	Accumulated Amortization								
	Accum. Amortization of Electric Utility Plant - Meters								
	only	(\$11,259,486)	(\$8,849,107)	(\$871,400)	(\$1,532,966)	(\$6,013)	\$0	\$0	\$0
	Meter Net Fixed Assets	\$8,137,051	\$6,395,109	\$629,747	\$1,107,850	\$4,346	\$0	\$0	\$0
	Misc Revenue								
4082	Retail Services Revenues	(\$44,000)	(\$28,539)	(\$4,833)	(\$10,006)	(\$237)	(\$242)	(\$125)	(\$18)
4084	Service Transaction Requests (STR) Revenues	(\$800)	(\$519)	(\$88)	(\$182)	(\$4)	(\$4)	(\$2)	(\$0)
4090	Electric Services Incidental to Energy Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4220	Other Electric Revenues	(\$71,600)	(\$46,441)	(\$7,865)	(\$16,283)	(\$386)	(\$394)	(\$203)	(\$29) \$0
4225	Late Payment Charges	(\$207,100)	(\$157,745)	(\$23,133)	(\$25,571)	(\$50)	(\$69)	(\$532)	Φ0_
	Sub-total	(\$323,500)	(\$233,243)	(\$35,919)	(\$52,042)	(\$678)	(\$709)	(\$862)	(\$47)
	Operation								
5065	Meter Expense	\$710,300	\$558,242	\$54,972	\$96,707	\$379	\$0	\$0	\$0
5070	Customer Premises - Operation Labour	\$7,200	\$6,369	\$577	\$66	\$0	\$120	\$68	\$0
5075	Customer Premises - Materials and Expenses	\$11,200	\$9,907	\$897	\$103	\$0	\$187	\$105	\$0
	Sub-total	\$728,700	\$574,518	\$56,446	\$96,876	\$380	\$307	\$173	\$0
	Maintenance								
5175	Maintenance of Meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Billing and Collection								
5310	Meter Reading Expense	\$892,700	\$675,138	\$69,384	\$143,994	\$152	\$1,402	\$2,630	\$0
5315	Customer Billing	\$2,542,000	\$2,232,450	\$262,148	\$46,497	\$50	\$297	\$558	\$0
5320	Collecting	\$780,200	\$685,192	\$80,459	\$14,271	\$15	\$91	\$171	\$0
5325	Collecting- Cash Over and Short	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5330	Collection Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	\$4,214,900	\$3,592,780	\$411,992	\$204,762	\$217	\$1,791	\$3,358	\$0
	Total Operation, Maintenance and Billing	\$4,943,600	\$4,167,298	\$468,437	\$301,638	\$597	\$2,098	\$3,531	\$0
	Amortization Expense - Meters	\$1,139,200	\$895,325	\$88,166	\$155,101	\$608	\$0	\$0	\$0
	Allocated PILs	\$33,482	\$26,274	\$2,597	\$4,593	\$18	\$0	\$0	\$0
	Allocated Debt Return	\$209,965	\$164,763	\$16,287	\$28,802	\$114	\$0	\$0	\$0
	Allocated Equity Return	\$310,931	\$243,992	\$24,119	\$42,652	\$168	\$0	\$0	\$0
	Total	\$6,313,678	\$5,264,410	\$563,686	\$480,743	\$827	\$1,389	\$2,669	(\$47)

Scenario 2

Accounts included in Directly Related Customer Costs Plus General Administration Allocation

			1	2	5	6	7	9	10
USoA Account #	Accounts	Total	Residential	GS <50	GS>50	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor
1860	<u>Distribution Plant</u> Meters	\$19,396,537	\$15,244,216	\$1,501,146	\$2,640,816	\$10,359	\$0	\$0	\$0
	Accumulated Amortization								
	Accum. Amortization of Electric Utility Plant - Meters								
	only	(\$11,259,486)	(\$8,849,107)	(\$871,400)	(\$1,532,966)	(\$6,013)	\$0	\$0	\$0
	Meter Net Fixed Assets	\$8,137,051	\$6,395,109	\$629,747	\$1,107,850	\$4,346	\$0	\$0	\$0
	Allocated General Plant Net Fixed Assets	\$1,002,671	\$799,018	\$75,979	\$127,200	\$474	\$0	\$0	\$0
	Meter Net Fixed Assets Including General Plant								
		\$9,139,722	\$7,194,127	\$705,725	\$1,235,050	\$4,820	\$0	\$0	\$0
	Misc Revenue								
4082	Retail Services Revenues	(\$44,000)	(\$28,539)	(\$4,833)	(\$10,006)	(\$237)	(\$242)	(\$125)	(\$18)
4084	Service Transaction Requests (STR) Revenues	(\$800)	(\$519)	(\$88)	(\$182)	(\$4)	(\$4)	(\$2)	(\$0)
4090	Electric Services Incidental to Energy Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4220	Other Electric Revenues	(\$71,600)	(\$46,441)	(\$7,865)	(\$16,283)	(\$386)	(\$394)	(\$203)	(\$29)
4225	Late Payment Charges	(\$207,100)	(\$157,745)	(\$23,133)	(\$25,571)	(\$50)	(\$69)	(\$532)	\$0
		(0000 000)	(22222)	(0.5.0)	(0.00 0.10)	(0.000)	(0===)	(0)	(0.47)
	Sub-total	(\$323,500)	(\$233,243)	(\$35,919)	(\$52,042)	(\$678)	(\$709)	(\$862)	(\$47)
	Operation								
5065	Meter Expense	\$710,300	\$558,242	\$54,972	\$96,707	\$379	\$0	\$0	\$0
5070	Customer Premises - Operation Labour	\$7,200	\$6,369	\$577	\$66	\$0	\$120	\$68	\$0
5075	Customer Premises - Materials and Expenses	\$11,200	\$9,907	\$897	\$103	\$0	\$187	\$105	\$0
	2.1	4	4	4	4			4	•
	Sub-total	\$728,700	\$574,518	\$56,446	\$96,876	\$380	\$307	\$173	\$0
	Maintenance								
5175	Maintenance of Meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5040	Billing and Collection	#000 700	0075 400	# 00.004	0.4.40.00.4	#450	# 4 400	#0.000	# 0
5310	Meter Reading Expense	\$892,700	\$675,138	\$69,384	\$143,994	\$152	\$1,402	\$2,630	\$0
5315	Customer Billing	\$2,542,000	\$2,232,450	\$262,148	\$46,497	\$50	\$297	\$558	\$0
5320 5325	Collecting	\$780,200	\$685,192 \$0	\$80,459 \$0	\$14,271	\$15 \$0	\$91 \$0	\$171 \$0	\$0 \$0
5330	Collecting- Cash Over and Short Collection Charges	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
3330	Collection Charges	Ψ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ
	Sub-total	\$4,214,900	\$3,592,780	\$411,992	\$204,762	\$217	\$1,791	\$3,358	\$0
	Total Occupation Maintenance and Billian	£4.040.000	£4.407.000	£400,407	#204 C20	# 507	#2.000	#2.524	\$0
	Total Operation, Maintenance and Billing	\$4,943,600	\$4,167,298	\$468,437	\$301,638	\$597	\$2,098	\$3,531	\$0
	Amortization Expense - Meters	\$1,139,200	\$895,325	\$88,166	\$155,101	\$608	\$0	\$0	\$0
	Amortization Expense -	\$109,404	\$87,183	\$8,290	\$13,879	\$52	\$0	\$0	\$0
	General Plant assigned to Meters							·	
	Admin and General	\$1,146,207	\$957,643	\$111,382	\$75,652	\$151	\$518	\$862	\$0
	Allocated PILs	\$37,608	\$29,557	\$2,911	\$5,120	\$20	\$0	\$0	\$0
	Allocated Debt Return	\$235,835	\$185,348	\$18,252	\$32,109	\$126	\$0	\$0	\$0
	Allocated Equity Return	\$349,241	\$274,477	\$27,029	\$47,549	\$187	\$0	\$0	\$0
	Total	\$7,637,594	\$6,363,589	\$688,546	\$579,005	\$1,062	\$1,907	\$3,532	(\$47)
		+-,,	+ -,	7000,040	70.0,000	7.,502	Ţ.,J01	75,502	(+.1)

Scenario 3
Minimum System Customer Costs Adjusted for PLCC - High Limit Fixed Customer Charge

		ī	4	2	5	c	7	•	10
USoA			1	2		6 Large Use	-	9 Unmetered	Embedded
Account #	Accounts	Total	Residential	GS <50	GS>50	>5MW	Street Light	Scattered Load	Distributor
	Distribution Plant								
1565	Conservation and Demand Management								
	Expenditures and Recoveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1830	Poles, Towers and Fixtures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Poles, Towers and Fixtures - Subtransmission Bulk								
1830-3	Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1830-4	Poles, Towers and Fixtures - Primary	\$9,638,928	\$8,577,693	\$776,632	\$89,538	\$95	\$103,810	\$91,161	\$0
1830-5	Poles, Towers and Fixtures - Secondary	\$6,425,952	\$5,695,591	\$514,162	\$48,171	\$0	\$107,497	\$60,531	\$0
1835	Overhead Conductors and Devices	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4005.0	Overhead Conductors and Devices -								
1835-3	Subtransmission Bulk Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1835-4	Overhead Conductors and Devices - Primary	\$9,509,096	\$8,462,155	\$766,171	\$88,332	\$94	\$102,411	\$89,933	\$0
1835-5	Overhead Conductors and Devices - Secondary	\$6,339,397	\$5,618,873	\$507,237	\$47,522	\$0	\$106,050	\$59,715	\$0
1840	Underground Conduit	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1840-3	Underground Conduit - Bulk Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1840-4	Underground Conduit - Primary	\$11,053,029	\$9,836,103	\$890,569	\$102,674	\$109	\$119,039	\$104,535	\$0
1840-5	Underground Conduit - Secondary	\$2,763,257	\$2,449,191	\$221,098	\$20,714	\$0	\$46,226	\$26,029	\$0
1845	Underground Conductors and Devices Underground Conductors and Devices - Bulk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1845-3	Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1845-4	Underground Conductors and Devices - Primary	\$9,035,763	\$8,040,936	\$728,033	\$83,935	\$89	\$97,314	\$85,456	\$0
1845-5	Underground Conductors and Devices - Secondary	\$9,035,763	\$8,008,775	\$722,982	\$67,735	\$0	\$151,156	\$85,114	\$0
1850	Line Transformers	\$26,429,405	\$23,565,064	\$2,127,307	\$201,402	\$0	\$285,191	\$250,441	\$0
1855	Services	\$66,138,786	\$52,225,690	\$7,071,914	\$5,300,448	\$0	\$985,697	\$555,036	\$0
1860	Meters	\$19,396,537	\$15,244,216	\$1,501,146	\$2,640,816	\$10,359	\$0	\$0	\$0
	Cub total	#47F 70F 044	\$4.47.70.4.00C	¢45,007,050	¢0 c04 007	\$40.740	PO 404 204	£4.407.054	# 0
	Sub-total	\$175,765,914	\$147,724,286	\$15,827,250	\$8,691,287	\$10,748	\$2,104,391	\$1,407,951	\$0
	Accumulated Amortization								
	Accum. Amortization of Electric Utility Plant -Line								
	Transformers, Services and Meters	(\$109,205,915)	(\$91,353,943)	(\$9,973,057)	(\$5,668,365)	(\$6,231)	(\$1,327,489)	(\$876,832)	\$0
	Customer Related Net Fixed Assets	\$66,559,998	\$56,370,344	\$5,854,194	\$3,022,922	\$4,517	\$776,902	\$531,119	\$0
	Allocated General Plant Net Fixed Assets	\$8,271,978	\$7,043,027	\$706,306	\$347,084	\$493	\$103,299	\$71,770	\$0
	Customer Related NFA Including General Plant								
		\$74,831,976	\$63,413,370	\$6,560,499	\$3,370,006	\$5,009	\$880,201	\$602,889	\$0
	Misc Revenue								
4082	Retail Services Revenues	(\$44,000)	(\$28,539)	(\$4,833)	(\$10,006)	(\$237)	(\$242)	(\$125)	(\$18)
4084	Service Transaction Requests (STR) Revenues	(\$800)	(\$519)	(\$88)	(\$182)	(\$4)	(\$4)		(\$0)
4090	Electric Services Incidental to Energy Sales	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4220	Other Electric Revenues	(\$71,600)	(\$46,441)	(\$7,865)	(\$16,283)	(\$386)	(\$394)	(\$203)	(\$29)
4225	Late Payment Charges	(\$207,100)	(\$157,745)	(\$23,133)	(\$25,571)	(\$50)	(\$69)	***	\$0
4235	Miscellaneous Service Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	(\$323,500)	(\$233,243)	(\$35,919)	(\$52,042)	(\$678)	(\$709)	(\$862)	(\$47)
	Operating and Maintenance								
5005	Operation Supervision and Engineering	\$851,010	\$720,997	\$77,967	\$32,929	\$2	\$11,453	\$7,662	\$0
5010	Load Dispatching	\$296,970	\$251,600	\$27,208	\$11,491	\$1	\$3,997	\$2,674	\$0
5020	Overhead Distribution Lines and Feeders - Operation								
	Labour	\$12,686	\$11,271	\$1,019	\$109	\$0	\$167	\$120	\$0
5025	Overhead Distribution Lines & Feeders - Operation								
	Supplies and Expenses	\$40,480	\$35,966	\$3,253	\$347	\$0	\$532	\$382	\$0

5035 5040	Overhead Distribution Transformers- Operation Underground Distribution Lines and Feeders -	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Operation Labour Underground Distribution Lines & Feeders -	\$128,717	\$114,376	\$10,344	\$1,110	\$1	\$1,670	\$1,216	\$0
5045	Operation Supplies & Expenses	\$111,589	\$99,156	\$8,968	\$963	\$1	\$1,448	\$1,054	\$0
5055	Underground Distribution Transformers - Operation	\$111,569 \$0	\$99,130	ФО,900 \$0	\$903 \$0	\$0	\$1,448 \$0	\$1,034 \$0	\$0 \$0
5065	Meter Expense	\$710,300	\$558,242	\$54,972	\$96,707	\$379	\$0 \$0	\$0 \$0	\$0 \$0
5070	Customer Premises - Operation Labour	\$7,200	\$6,369	\$577	\$66	\$0	\$120	\$68	\$0 \$0
5075	Customer Premises - Materials and Expenses	\$11,200	\$9,907	\$897	\$103	\$0 \$0	\$187	\$105	\$0
5085	Miscellaneous Distribution Expense	\$2,970	\$2,516	\$272	\$115	\$0 \$0	\$40	\$27	\$0
5090	Underground Distribution Lines and Feeders - Rental	Ψ2,010	ΨΞ,010	Ψ2,2	Ψιισ	Ψ	Ψισ	Ψ21	ΨΟ
0000	Paid	\$4,560	\$4,052	\$366	\$39	\$0	\$59	\$43	\$0
5095	Overhead Distribution Lines and Feeders - Rental	¥ 1,000	¥ .,	****	***	**	***	*	**
	Paid	\$6,600	\$5,864	\$530	\$57	\$0	\$87	\$62	\$0
5096	Other Rent	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5105	Maintenance Supervision and Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5120	Maintenance of Poles, Towers and Fixtures	\$125,061	\$111,114	\$10,049	\$1,072	\$1	\$1,645	\$1,181	\$0
5125	Maintenance of Overhead Conductors and Devices	\$463,715	\$412,000	\$37,259	\$3,975	\$3	\$6,099	\$4,379	\$0
5130	Maintenance of Overhead Services	\$1,835,730	\$1,449,562	\$196,286	\$147,118	\$0	\$27,359	\$15,405	\$0
5135	Overhead Distribution Lines and Feeders - Right of								
	Way	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5145	Maintenance of Underground Conduit	\$91,701	\$81,539	\$7,378	\$819	\$1	\$1,097	\$867	\$0
5150	Maintenance of Underground Conductors and								
	Devices	\$212,409	\$188,645	\$17,055	\$1,783	\$1	\$2,920	\$2,005	\$0
5155	Maintenance of Underground Services	\$287,771	\$227,235	\$30,770	\$23,062	\$0	\$4,289	\$2,415	\$0
5160	Maintenance of Line Transformers	\$142,555	\$127,105	\$11,474	\$1,086	\$0	\$1,538	\$1,351	\$0
5175	Maintenance of Meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	0.1.4.1	05.040.004	04.447.540	0.400.044	# 200 050	0000	004707	044.045	0.0
	Sub-total	\$5,343,224	\$4,417,518	\$496,644	\$322,950	\$390	\$64,707	\$41,015	\$0
	Billing and Callestian								
FOOF	Billing and Collection Supervision	\$504.700	\$513,499	ም ርስ 200	\$40 COE	\$11	# 60	\$128	¢0
5305 5310	Meter Reading Expense	\$584,700 \$892,700	\$675,138	\$60,298 \$69,384	\$10,695 \$143,994	\$11 \$152	\$68 \$1,402	\$2,630	\$0 \$0
5315	Customer Billing	\$2,542,000	\$2,232,450	\$262,148	\$143,994 \$46,497	\$50	\$1,402 \$297	ъ∠,630 \$558	\$0 \$0
5320	Collecting	\$780,200	\$685,192	\$80,459	\$46,497 \$14,271	\$15	\$297 \$91	\$171	\$0 \$0
5325	Collecting Cash Over and Short	\$780,200	\$000,192	\$00,439 \$0	\$14,271	\$0	\$0	\$0	\$0 \$0
5330	Collection Charges	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
5335	Bad Debt Expense	\$182,100	\$147,861	\$8,753	\$25,486	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
5340	Miscellaneous Customer Accounts Expenses	\$0	\$0	ψ0,733 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
0040	Missolianeous Gustomol 71000anto Expenses	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ
	Sub-total	\$4,981,700	\$4,254,140	\$481,043	\$240,942	\$229	\$1,860	\$3,487	\$0
	Sub Total Operating, Maintenance and Biling	\$10,324,924	\$8,671,658	\$977,687	\$563,892	\$618	\$66,567	\$44,502	\$0
		DO 404 000	#0.000 	#000 100	#00.4.555	0011	# 00.400	# 00 101	**
	Amortization Expense - Customer Related	\$3,401,026	\$2,822,778	\$292,433	\$234,557	\$614	\$30,160	\$20,484	\$0
	Amortization Expense - General Plant assigned	4000 ==0	# 700 170	^	007.074	054	044.074	A7.004	•
	to Meters	\$902,573	\$768,479	\$77,067	\$37,871	\$54	\$11,271	\$7,831	\$0
	Admin and General	\$2,394,085	\$1,992,743	\$232,468	\$141,426	\$156	\$16,428	\$10,864	\$0 \$0
	Allocated PILs	\$307,625	\$260,531	\$27,057	\$13,971	\$21	\$3,591	\$2,455	\$0 \$0
	Allocated Debt Return	\$1,929,098	\$1,633,773	\$169,671	\$87,613	\$131 \$104	\$22,517	\$15,393 \$32,706	\$0 \$0
	Allocated Equity Return	\$2,856,744	\$2,419,406	\$251,261	\$129,743	\$194	\$33,345	\$22,796	ΦU
	PLCC Adjustment for Line Transformer	\$529,934	\$472,530	\$42,571	\$4,020	\$0	\$5,755	\$5,059	\$0
	•	\$529,934 \$1,192,664	\$472,530 \$1,061,248	\$42,571 \$96,026	\$4,020 \$11,066	\$12	\$5,755 \$12,939	\$5,059 \$11,373	\$0 \$0
	PLCC Adjustment for Primary Costs PLCC Adjustment for Secondary Costs	\$897,594	\$794,961	\$96,026 \$66,345	\$11,066 \$7,425	\$12 \$0	\$12,939 \$10,645	\$11,373 \$18,217	\$0 \$0
	i LOG Aujustinent for Secondary Costs	ΨΕυ, 1Ευψ	Ψι 34,301	ψου,υ4υ	Ψ1,420	ΨΟ	ψ10,043	Ψ10,211	φυ
	Total	\$19,172,383	\$16,007,385	\$1,786,782	\$1,134,520	\$1,098	\$153,831	\$88,814	(\$47)
		Ţ,, ,	. , . , ,	. , ,	. , ,	. ,	,		

Below: Grouping to avoid disclosure

Scenario 1

Accounts included in Avoided Costs Plus General Administration Allocation

Accounts		Total	F	Residential		GS <50		GS>50	La	rge Use >5MW		Street Light	S	Unmetered Scattered Load		Embedded Distributor
Distribution Plant CWMC	\$	19,396,537	\$	15,244,216	\$	1,501,146	\$	2,640,816	\$	10,359	\$	-	\$	- -	\$	-
Accumulated Amortization																
Accum. Amortization of Electric Utility Plant - Meters only	\$	(11,259,486)	¢	(8,849,107)	Φ.	(871,400)	Φ.	(1,532,966)	Φ.	(6,013)	\$	_	\$	_	Φ.	_
Meter Net Fixed Assets	\$	8,137,051		6,395,109		629,747		1,107,850		4,346			\$			-
Misc Revenue																
CWNB	\$	(44,800)		(29,058)		(4,921)		(10,188)		(242)		(246)				(18)
NFA	\$	(71,600)		(46,441)		(7,865)		(16,283)		(386)		(394)				(29)
LPHA Sub-total	\$	(207,100) (323,500)		(157,745) (233,243)		(23,133) (35,919)		(25,571) (52,042)		(50) (678)		(69) (709)				(47)
Sub-total	Ф	(323,500)	Ф	(233,243)	Ф	(35,919)	Ф	(52,042)	Ф	(676)	Ф	(709)	Ф	(002)	Ф	(47)
Operation																
CWMC	\$	710,300	\$	558,242	\$	54,972	\$	96,707	\$	379	\$	_	\$	_	\$	_
CCA	\$	18,400		16,276		1,474		,	\$		\$	307				_
Sub-total	\$	728,700		574,518		56,446		96,876	-	380		307				-
		,		,		,		,								
Maintenance																
1860	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Billing and Collection																
CWMR	\$	892,700		675,138		69,384		143,994		152		1,402				-
CWNB	\$	3,322,200	\$	2,917,642	\$	342,607	\$	60,768	\$	65	\$	389	\$	729	\$	-
Sub-total	\$	4,214,900	\$	3,592,780	\$	411,992	\$	204,762	\$	217	\$	1,791	\$	3,358	\$	-
Total Operation, Maintenance and Billing	\$	4,943,600	\$	4,167,298	\$	468,437	\$	301,638	\$	597	\$	2,098	\$	3,531	\$	-
Amortization Expense - Meters	\$	1,139,200	Φ.	895,325	¢	88,166	•	155,101	¢	608	Φ.	_	\$	_	Φ.	_
Allocated PILs	Ф \$		\$	26,274		2,597		4,593			\$	-	φ \$		- 1	-
Allocated Debt Return	\$	209,965	\$	164,763		16,287		28,802		114		-	\$			-
Allocated Equity Return	\$	310.931	\$	243,992		24,119		42,652			\$	-	\$			_
,	*	2.0,00.	*	0,002	7	2.,	7	.2,002	*	.00	*		٣		7	
Total	\$	6,313,678	\$	5,264,410	\$	563,686	\$	480,743	\$	827	\$	1,389	\$	2,669	\$	(47)

Scenario 2

Accounts included in Directly Related Customer Costs Plus General Administration Allocation

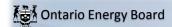
Accounts		Total	ı	Residential		GS <50		GS>50	La	rge Use >5MW		Street Light	s	Unmetered scattered Load		Embedded Distributor
Distribution Plant CWMC	\$	19,396,537	\$	15,244,216	\$	1,501,146	\$	2,640,816	\$	10,359	\$	-	\$	-	\$	-
Accumulated Amortization Accum. Amortization of Electric Utility Plant - Meters	\$	(11,259,486)	\$	(8,849,107)	\$	(871,400)	\$	(1,532,966)	\$	(6,013)	\$	-	\$	_	\$	_
only Meter Net Fixed Assets Allocated General Plant Net Fixed Assets	\$ \$	8,137,051 1,002,671		6,395,109 799,018		629,747 75,979		1,107,850 127,200		4,346 474			\$ \$		\$ \$	-
Meter Net Fixed Assets Including General Plant	\$	9,139,722	\$	7,194,127	\$	705,725	\$	1,235,050	\$	4,820	\$	-	\$	-	\$	-
Misc Revenue CWNB NFA LPHA Sub-total	\$ \$ \$	(44,800) (71,600) (207,100) (323,500)	\$ \$	(29,058) (46,441) (157,745) (233,243)	\$ \$	(4,921) (7,865) (23,133) (35,919)	\$ \$	(10,188) (16,283) (25,571) (52,042)	\$ \$	(242) (386) (50) (678)	\$ \$	(246) (394) (69) <i>(709)</i>	\$	(127) (203) (532) (862)	\$ \$	(18) (29) - (47)
Operation CWMC CCA Sub-total	\$ \$	710,300 18,400 728,700	\$	558,242 16,276 574,518	\$	54,972 1,474 <i>56,44</i> 6	\$	96,707 170 96,876	\$	379 0 380	\$	- 307 307	\$	173	-	:
Maintenance 1860	\$	-		,	\$,	\$,	\$		\$		\$		\$	-
Billing and Collection CWMR CWNB Sub-total	\$ \$	892,700 3,322,200 4,214,900	\$ \$	675,138 2,917,642 3,592,780	\$	69,384 342,607 <i>411</i> ,992	\$	143,994 60,768 204,762	\$	152 65 217	\$	1,402 389 1,791	\$	2,630 729 3,358	\$	-
Total Operation, Maintenance and Billing	\$	4,943,600	-	4,167,298		468,437		301,638		597		2,098		3,531	•	-
Amortization Expense - Meters Amortization Expense -	\$	1,139,200	\$	895,325	\$	88,166	\$	155,101	\$	608	\$	-	\$	-	\$	-
General Plant assigned to Meters Admin and General Allocated PILs	\$ \$ \$	109,404 1,146,207 37,608	\$ \$ \$	87,183 957,643 29,557	\$	8,290 111,382 2,911	\$	13,879 75,652 5,120	\$	151	\$ \$ \$	- 518	\$ \$ \$	- 862	Ψ	- -
Allocated PILS Allocated Debt Return Allocated Equity Return	\$ \$	235,835 349,241	\$ \$	185,348 274,477	\$	18,252 27,029	\$,	\$		\$	- - -	\$ \$	- -	\$	- -
Total	\$	7,637,594	\$	6,363,589	\$	688,546	\$	579,005	\$	1,062	\$	1,907	\$	3,532	\$	(47)

<u>Scenario 3</u>

Minimum System Customer Costs Adjusted for PLCC - High Limit Fixed Customer Charge

SoA ount #	Accounts		Total	R	esidential		GS <50		GS>50	Large	Use >5MW	Street Light		metered ered Load	Embedded Distributor
	Distribution Plant	•	•				•							•	
	CDMPP	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$
	Poles, Towers and Fixtures	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$
	BCP	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$
	PNCP	\$	39,236,816	\$	34,916,886	\$	3,161,404	\$	364,479	\$	389	\$ 422,574	\$	371,084	\$
	SNCP	\$	24,564,370		21,772,430		1,965,479		184,143		-		\$		\$
	Overhead Conductors and Devices	\$	- 1,000 1,010				-			\$	-		\$	-	*
	LTNCP	\$	26,429,405		23,565,064		2,127,307		201,402		-	•		250,441	
	CWCS	\$	66,138,786		52,225,690		7,071,914		5,300,448		-			555,036	
	CWMC	\$			15,244,216							. ,	\$	-	
		-	19,396,537				1,501,146		2,640,816		10,359				
	Sub-total	\$	175,765,914	\$	147,724,286	\$	15,827,250	\$	8,691,287	\$	10,748	\$ 2,104,391	\$	1,407,951	\$
	Accumulated Amortization Accum. Amortization of Electric Utility Plant -Line														
	Transformers, Services and Meters		(109,205,915)		(91,353,943)		(9,973,057)		(5,668,365)		(6,231)			(876,832)	
	Customer Related Net Fixed Assets	\$	66,559,998		56,370,344		5,854,194		3,022,922		4,517			531,119	
	Allocated General Plant Net Fixed Assets	\$	8,271,978		7,043,027		706,306		347,084		493			71,770	
	Customer Related NFA Including General Plant	\$	74,831,976	\$	63,413,370	\$	6,560,499	\$	3,370,006	\$	5,009	\$ 880,201	\$	602,889	\$
	Misc Revenue														
	CWNB	\$	(44,800)		(29,058)		(4,921)		(10,188)		(242)			(127)	
	NFA	\$	(71,600)	\$	(46,441)	\$	(7,865)	\$	(16,283)	\$	(386)	\$ (394)	\$	(203)	\$ (2
	LPHA	\$	(207,100)	\$	(157,745)	\$	(23,133)	\$	(25,571)	\$	(50)	\$ (69)	\$	(532)	\$
	Sub-total	\$	(323,500)	\$	(233,243)	\$	(35,919)	\$	(52,042)	\$	(678)	\$ (709)	\$	(862)	\$ (4)
	Operating and Maintenance 1815-1855	\$	1,150,950		975,114	\$	105,447		44,534		3			10,363	
	1830 & 1835	\$	59,766	\$	53,101	\$	4,802	\$	512		0	\$ 786	\$	564	\$
	1850	\$	142,555	\$	127,105	\$	11,474	\$	1,086	\$	-	\$ 1,538	\$	1,351	\$
	1840 & 1845	\$	244,866		217,584			\$	2,112		2			2,312	
	CWMC	\$	710,300		558,242		54,972	\$	96,707		379		\$		\$
	CCA	\$	18,400		16,276		1,474			\$	0				\$
	O&M	\$	-						-	1	-		\$		\$
	1830	\$	125,061		111,114		10,049		1,072		1		*		\$ \$
	1835	\$									3				
			463,715		412,000		37,259		3,975					4,379	
	1855	\$	2,123,501		1,676,797		227,056		170,180		-	. ,			\$
	1840	\$	91,701		81,539		7,378		819		1			867	
	1845	\$	212,409		188,645		17,055		1,783		1			2,005	
	1860	\$	-		-		-			\$	-		\$	-	
	Sub-total	\$	5,343,224	\$	4,417,518	\$	496,644	\$	322,950	\$	390	\$ 64,707	\$	41,015	\$
	Billing and Collection														
	CWNB	\$	3,906,900	\$	3,431,141	\$	402,905	\$	71,463	\$	76	\$ 457	\$	857	\$
	CWMR	\$	892,700		675,138		69,384		143,994		152				\$
	BDHA	\$	182,100		147,861		8,753		25,486		-		\$		\$
	Sub-total	\$	4,981,700		4,254,140		481,043		240,942		229		\$		\$
	Sub Total Operating, Maintenance and Biling	\$	10,324,924		8,671,658		977,687		563,892		618			44,502	\$
							,							·	
	Amortization Expense - Customer Related	\$	3,401,026	\$	2,822,778	\$	292,433	\$	234,557	\$	614	\$ 30,160	\$	20,484	\$
	Amortization Expense - General Plant assigned	\$	902,573	\$	768,479	\$	77,067	\$	37,871	\$	54	\$ 11,271	\$	7,831	\$
	to Meters														
	Admin and General	\$	2,394,085		1,992,743		232,468		141,426		156			10,864	
		¢.	307,625	Φ	260 524	Φ	27.057	Φ.	13,971	ው	21	\$ 3,591	Ф	2 455	c
	Allocated PILs	\$	1,929,098		260,531 1,633,773		27,057 169,671		87,613		21	\$ 22,517		2,455 15,393	

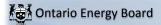
Total	\$ 19,172,383	\$ 16,007,385	\$ 1,786,782	\$ 1,134,520	\$ 1,098	\$ 153,831	\$ 88,814	\$ (47)
PLCC Adjustment for Secondary Costs	\$ 897,594	\$ 794,961	\$ 66,345	\$ 7,425	\$ -	\$ 10,645	\$ 18,217	\$ -
PLCC Adjustment for Primary Costs	\$ 1,192,664	\$ 1,061,248	96,026	11,066	12	\$ 12,939	11,373	-
PLCC Adjustment for Line Transformer	\$ 529,934	\$ 472,530	\$ 42,571	\$ 4,020	\$ -	\$ 5,755	\$ 5,059	\$ -
Allocated Equity Return	\$ 2,856,744	\$ 2,419,406	\$ 251,261	\$ 129,743	\$ 194	\$ 33,345	\$ 22,796	\$ -



Sheet 02.1 Line Transformer Worksheet -

Line Transformers Demand Unit Cost for PLCC Adjustment to Customer Related Cost Allocation by rate classification

		1	2	3	4	5	6	7	8	9	10
<u>Description</u>	Total	Residential	GS <50	GS>50-Regular	GS> 50-TOU	GS>50	Large Use >5MW	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor
Depreciation on Acct 1850 Line Transformers	\$849,680	\$330,080	\$114,417	\$0	\$0	\$400,895	\$0	\$3,995	\$0	\$294	\$0
Depreciation on General Plant Assigned to Line Transformers	\$249,618	\$101,278	\$33,900	\$0	\$0	\$113,038	\$0	\$1,304	\$0	\$97	\$0
Acct 5035 - Overhead Distribution Transformers- Operation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Acct 5055 - Underground Distribution Transformers - Operation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Acct 5160 - Maintenance of Line Transformers	\$264,745	\$102,847	\$35,650	\$0	\$0	\$124,912	\$0	\$1,245	\$0	\$92	\$0
Allocation of General Expenses	\$490,993	\$190,739	\$66,117	\$0	\$0	\$231,660	\$0	\$2,308	\$0	\$170	\$0
Admin and General Assigned to Line Transformers	\$63,769	\$23,634	\$8,477	\$0	\$0	\$31,328	\$0	\$307	\$0	\$22	\$0
PILs on Line Transformers	\$88,385	\$34,335	\$11,902	\$0	\$0	\$41,702	\$0	\$416	\$0	\$31	\$0
Debt Return on Line Transformers	\$554,256	\$215,315	\$74,636	\$0	\$0	\$261,508	\$0	\$2,606	\$0	\$192	\$0
Equity Return on Line Transformers	\$820,781	\$318,853	\$110,526	\$0	\$0	\$387,260	\$0	\$3,859	\$0	\$284	\$0
Total	\$3,382,227	\$1,317,081	\$455,624	\$0	\$0	\$1,592,301	\$0	\$16,040	\$0	\$1,181	\$0
Line Tranformer NCP	1,031,588	400,747	138,913	0	0	486,722	0	4.850	0	357	0
PLCC Amount	161,252	143,776	12,979	0	0	1,229	0	1,740	0	1,528	0
Adjustment to Customer Related Cost for PLCC	\$529,934	\$472,530	\$42,571	\$0	\$0	\$4,020	\$0	\$5,755	\$0	\$5,059	\$0
General Plant - Gross Assets	\$49,312,426	\$27,937,388	\$5,648,047	\$0	\$0	\$14,623,500	\$346,546	\$358,865	\$0	\$177,538	\$220,542
General Plant - Accumulated Depreciation	(\$25,092,383)	(\$14,215,801)	(\$2,873,981)	\$0	\$0	(\$7,441,095)	(\$176,338)	(\$182,607)	\$0	(\$90,339)	(\$112,222)
General Plant - Net Fixed Assets	\$24,220,043	\$13,721,587	\$2,774,066	\$0	\$0	\$7,182,405	\$170,208	\$176,258	\$0	\$87,199	\$108,320
General Plant - Depreciation	\$2,642,700	\$1,497,191	\$302,684	\$0	\$0	\$783,687	\$18,572	\$19,232	\$0	\$9,514	\$11,819
Total Net Fixed Assets Excluding General Plant	\$199,614,813	\$109,823,608	\$22,992,766	\$0	\$0	\$62,555,065	\$1,560,766	\$1,325,626	\$0	\$645,292	\$711,691
Total Administration and General Expense	\$4,277,204	\$2,713,643	\$472,455	\$0	\$0	\$1,020,969	\$24,350	\$24,384	\$0	\$12,458	\$8,946
Total O&M	\$18,143,600	\$11,808,739	\$1,986,994	\$0	\$0	\$4,070,807	\$96,386	\$98,807	\$0	\$51,031	\$30,836
Line Transformer Rate Base											
Acct 1850 - Line Transformers - Gross Assets	\$49,083,180	\$19,067,609	\$6,609,491	\$0	\$0	\$23,158,347	\$0	\$230,762	\$0	\$16,971	\$0
Line Transformers - Accumulated Depreciation	(\$29,959,591)	(\$11,638,565)	(\$4,034,328)	\$0	\$0	(\$14,135,486)	\$0	(\$140,853)	\$0	(\$10,359)	\$0
Line Transformers - Net Fixed Assets	\$19,123,589	\$7,429,044	\$2,575,163	\$0	\$0	\$9,022,861	\$0	\$89,908	\$0	\$6,612	\$0
General Plant Assigned to Line Transformers - NFA	\$2,287,721	\$928,200	\$310,692	\$0	\$0	\$1,035,981	\$0	\$11,954	\$0	\$894	\$0
Line Transformer Net Fixed Assets Including General Plant	\$21,411,310	\$8,357,244	\$2,885,855	\$0	\$0	\$10,058,842	\$0	\$101,863	\$0	\$7,506	\$0
General Expenses											
Acct 5005 - Operation Supervision and Engineering	\$1.985.690	\$791.893	\$259.364	\$0	\$0	\$902.896	\$21,720	\$8.390	\$0	\$1.427	\$0
Acct 5010 - Load Dispatching	\$692,930	\$276,340	\$90,508	\$0	\$0 \$0	\$315,076	\$7,579	\$2,928	\$0	\$498	\$0 \$0
Acct 5085 - Miscellaneous Distribution Expense	\$6,930	\$2,764	\$905	\$0	\$0	\$3,151	\$76	\$29	\$0	\$5	\$0
Acct 5105 - Maintenance Supervision and Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,685,550	\$1,070,997	\$350,777	\$0	\$0	\$1,221,124	\$29,375	\$11,347	\$0	• •	\$0
Acct 1850 - Line Transformers - Gross Assets	\$49,083,180	\$19,067,609	\$6,609,491	\$0	\$0	\$23,158,347	\$0	\$230,762	\$0	\$16,971	\$0
Acct 1815 - 1855	\$268,466,798	\$107,064,508	\$35,066,169	\$0	\$0	\$122,072,278	\$2,936,534	\$1,134,375	\$0	\$192,934	\$0



Sheet 02.2 Primary Cost PLCC Adjustment Worksheet -

Primary Conductors and Poles Cost Pool Demand Unit Cost for PLCC Adjustment to Customer Related Cost

Allocation by Rate Classification

		1	2	3	4	5	ь	- /	8	9	10
<u>Description</u>	Total	Residential	GS <50	GS>50-Regular	GS> 50-TOU	GS>50	Large Use >5MW	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor
Depreciation on Acct 1830-4 Primary Poles, Towers & Fixtures	\$430,258	\$164,804	\$56,720	\$0	\$0	\$198,212	\$8,366	\$1,995	\$0	\$162	\$0
Depreciation on Acct 1835-4 Primary Overhead Conductors	\$287,500	\$110,123	\$37,901	\$0	\$0	\$132,446	\$5,590	\$1,333	\$0	\$108	\$0
Depreciation on Acct 1840-4 Primary Underground Conduit	\$265,909	\$101,853	\$35,054	\$0	\$0	\$122,500	\$5,170	\$1,233	\$0	\$100	\$0
Depreciation on Acct 1845-4 Primary Underground Conductors	\$354,370	\$135,736	\$46,716	\$0	\$0	\$163,252	\$6,890	\$1,643	\$0	\$133	\$0
Depreciation on General Plant Assigned to Primary C&P	\$525,582	\$210.583	\$69,986	\$0	\$0	\$232,747	\$9,330	\$2,712	\$0		\$0
Primary C&P Operations and Maintenance	\$1,718,157	\$658,319	\$226,590	\$0	\$0	\$791,857	\$32,799	\$7,948	\$0		\$0
Allocation of General Expenses	\$915,826	\$350.794	\$120,732	\$0	\$0	\$421,904	\$17,807	\$4,245	\$0		\$0
Admin and General Assigned to Primary C&P	\$414,163	\$151,282	\$53,877	\$0	\$0	\$198,600	\$8,286	\$1,961	\$0		\$0
	\$186,385	\$71,392	\$24,571	\$0	\$0 \$0	\$85,864	\$3,624	\$864	\$0		\$0 \$0
PILs on Primary C&P				\$0 \$0	\$0 \$0				\$0 \$0		
Debt Return on Primary C&P	\$1,168,811	\$447,696	\$154,082			\$538,450	\$22,725	\$5,418			\$0
Equity Return on Primary C&P	\$1,730,859	\$662,981	\$228,176	\$0	\$0	\$797,375	\$33,653	\$8,024	\$0	\$650	\$0
Total	\$7,997,822	\$3,065,564	\$1,054,406	\$0	\$0	\$3,683,207	\$154,240	\$37,375	\$0	\$3,030	\$0
Primary NCP	1,084,278	415,317	142,939	0	0	499,507	21,082	5,026	(407	0
PLCC Amount	161,564		13,018		0			1,740	Ċ		0
Adjustment to Customer Related Cost for PLCC	\$1,192,664	\$1,061,248	\$96,026	\$0	\$0			\$12,939	\$0		\$0
Augustinist to Sustoiner Related Society 1 200	\$1,132,004	ψ1,001,240	\$30,023	Ψ	ŲŪ.	\$11,000	V 1.2	Ψ12,303	Ų.	\$11,575	40
General Plant - Gross Assets	\$49,312,426	\$27,937,388	\$5,648,047	\$0	\$0	\$14,623,500	\$346,546	\$358,865	\$0	\$177,538	\$220,542
General Plant - Accumulated Depreciation	(\$25,092,383)	(\$14,215,801)	(\$2,873,981)	\$0	\$0	(\$7,441,095)	(\$176,338)	(\$182,607)	\$0	(\$90,339)	(\$112,222)
General Plant - Net Fixed Assets	\$24,220,043	\$13,721,587	\$2,774,066	\$0	\$0	\$7,182,405	\$170,208	\$176,258	\$0	\$87,199	\$108,320
General Plant - Depreciation	\$2,642,700	\$1,497,191	\$302,684	\$0	\$0	\$783,687	\$18,572	\$19,232	\$0	\$9,514	\$11,819
Total Net Fixed Assets Excluding General Plant	\$199,614,813	\$109,823,608	\$22,992,766	\$0	\$0	\$62,555,065	\$1,560,766	\$1,325,626	\$0	\$645,292	\$711,691
Total Administration and General Expense	\$4,277,204	\$2,713,643	\$472,455	\$0	\$0	\$1,020,969	\$24,350	\$24,384	\$0	\$12,458	\$8,946
Total O&M	\$18,143,600	\$11,808,739	\$1,986,994	\$0	\$0	\$4,070,807	\$96,386	\$98,807	\$0	\$51,031	\$30,836
Primary Conductors and Poles Gross Assets											
Acct 1830-4 Primary Poles, Towers & Fixtures	\$22,490,833	\$8,614,791	\$2,964,929	\$0	\$0	\$10,361,115	\$437,294	\$104,259	\$0	\$8,445	\$0
Acct 1835-4 Primary Overhead Conductors	\$22,187,890	\$8,498,753	\$2,924,993	\$0	\$0 \$0	\$10,221,555	\$431,404	\$102,854	\$0		\$0 \$0
Acct 1840-4 Primary Overhead Conductors	\$25,790,400	\$9,878,643	\$3,399,906	\$0	\$0 \$0	\$11,881,165	\$501,448	\$119,554	\$0		\$0
				\$0	\$0 \$0				\$0		\$0
Acct 1845-4 Primary Underground Conductors	\$21,083,447	\$8,075,712	\$2,779,396			\$9,712,758	\$409,930	\$97,735			
Subtotal	\$91,552,570	\$35,067,899	\$12,069,224	\$0	\$0	\$42,176,593	\$1,780,077	\$424,402	\$0	\$34,376	\$0
Primary Conductors and Poles Accumulated Depreciation											
Acct 1830-4 Primary Poles, Towers & Fixtures	(\$10,498,291)	(\$4,021,220)	(\$1,383,972)	\$0	\$0	(\$4,836,370)	(\$204,121)	(\$48,666)	\$0	(\$3,942)	\$0
Acct 1835-4 Primary Overhead Conductors	(\$10,446,727)		(\$1,377,175)		\$0	(\$4,812,616)		(\$48,427)	\$0		\$0
Acct 1840-4 Primary Underground Conduit	(\$16,644,818)		(\$2,194,259)	\$0	\$0	(\$7,667,963)		(\$77,159)	\$0		\$0
Acct 1845-4 Primary Underground Conductors	(\$13,635,030)		(\$1,797,484)	\$0	\$0	(\$6,281,409)		(\$63,207)	\$0		\$0
Subtotal	(\$51,224,867)		(\$6,752,890)	\$0	\$0	(\$23,598,358)		(\$237,458)	\$0		\$0
Primary Conductor & Pools - Net Fixed Assets	\$40,327,703	\$15,446,949	\$5,316,335	\$0	\$0	\$18,578,235		\$186,943	\$0		\$0
General Plant Assigned to Primary C&P - NFA	\$4,816,902	\$1,929,973	\$641,413	\$0	\$0	\$2,133,103	\$85,509	\$24,856	\$0		\$0 \$0
Primary C&P Net Fixed Assets Including General Plant	\$45,144,605	\$17,376,922	\$5,957,748	\$0	\$0	\$20,711,338	\$869,610	\$211,800	\$0 \$0		\$0
Acct 1830-3 Bulk Poles, Towers & Fixtures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Acct 1835-3 Bulk Overhead Conductors	\$0		\$0	\$0	\$0	\$0		\$0	\$0		\$0
Acct 1840-3 Bulk Underground Conduit	\$0		\$0 \$0	\$0	\$0 \$0	\$0		\$0 \$0	\$0		\$0
Acct 1845-3 Bulk Underground Conductors											
	0.2	በወ	Ω2	ΩP	0.0	ባዎ	0.2	CO.	CO	0.2	ደብ
Subtotal	\$0 \$0	**	\$0 \$0								

	/ [1	2	2	1	5	6	7	0	٥	10
<u>Description</u>	Total	Residential	GS <50	GS>50-Regular	GS> 50-TOU	GS>50	Large Use >5MW	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor
Acct 1830-5 Secondary Poles, Towers & Fixtures	\$14.993.888	\$5.830.187	\$2.020.944	\$0	\$0	\$7.081.174	\$0	\$56.395	\$0	\$5.189	\$0
Acct 1835-5 Secondary Overhead Conductors	\$14,791,927	\$5,751,657	\$1,993,723	\$0	\$0	\$6,985,793	\$0	\$55,635	\$0	\$5,119	\$0
Acct 1840-5 Secondary Underground Conduit	\$6,447,600	\$2,507,069	\$869,037	\$0	\$0	\$3,045,012	\$0	\$24,251	\$0	\$2,231	\$0
Acct 1845-5 Secondary Underground Conductors	\$21,083,447	\$8,198,036	\$2,841,722	\$0	\$0	\$9,957,093	\$0	\$79,298	\$0	\$7.297	\$0
Subtotal	\$57,316,862	\$22,286,949	\$7,725,425	\$0	\$0	\$27,069,072	\$0	\$215,579	\$0	\$19,837	\$0
Operations and Maintenance											
Acct 5020 Overhead Distribution Lines & Feeders - Labour	\$29,600	\$11,406	\$3,937	\$0	\$0	\$13,773	\$345	\$127	\$0	\$11	\$0
Acct 5025 Overhead Distribution Lines & Feeders - Other	\$94,454	\$36,399	\$12,563	\$0	\$0	\$43,951	\$1,102	\$405	\$0	\$34	\$0
Acct 5040 Underground Distribution Lines & Feeders - Labour	\$300,340	\$115,686	\$39,922	\$0	\$0	\$139,649	\$3,679	\$1,295	\$0	\$110	\$0
Acct 5045 Underground Distribution Lines & Feeders - Other	\$260,374	\$100,291	\$34,609	\$0	\$0	\$121,066	\$3,189	\$1,123	\$0	\$95	\$0
Acct 5090 Underground Distribution Lines & Feeders - Rental Paid	\$10,640	\$4,098	\$1,414	\$0	\$0	\$4,947	\$130	\$46	\$0	\$4	\$0
Acct 5095 Overhead Distribution Lines & Feeders - Rental Paid	\$15,400	\$5,934	\$2,048	\$0	\$0	\$7,166	\$180	\$66	\$0	\$6	\$0
Acct 5120 Maintenance of Poles, Towers & Fixtures	\$291,810	\$112,451	\$38,814	\$0	\$0	\$135,784	\$3,404	\$1,251	\$0	\$106	\$0
Acct 5125 Maintenance of Overhead Conductors & Devices	\$1,082,001	\$416,956	\$143,918	\$0	\$0	\$503,474	\$12,623	\$4,637	\$0	\$394	\$0
Acct 5135 Overhead Distribution Lines & Feeders - Right of Way	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Acct 5145 Maintenance of Underground Conduit	\$213,969	\$82,206	\$28,334	\$0	\$0	\$99,067	\$3,328	\$954	\$0	\$79	\$0
Acct 5150 Maintenance of Underground Conductors & Devices	\$495,620	\$191,278	\$66,069	\$0	\$0	\$231,195	\$4,818	\$2,081	\$0	\$179	\$0
Total	\$2,794,208	\$1,076,706	\$371,629	\$0	\$0	\$1,300,073	\$32,799	\$11,985	\$0	\$1,017	\$0
General Expenses											
Acct 5005 - Operation Supervision and Engineering	\$1,985,690	\$791.893	\$259,364	\$0	\$0	\$902.896	\$21,720	\$8,390	\$0	\$1,427	\$0
Acct 5010 - Coad Dispatching	\$692,930	\$276,340	\$90,508	\$0	\$0	\$315,076	\$7,579	\$2,928	\$0	\$498	\$0
Acct 5085 - Miscellaneous Distribution Expense	\$6,930	\$2,764	\$905	\$0	\$0	\$3,151	\$76 \$76	\$29	\$0	\$5	\$0
Acct 5105 - Maintenance Supervision and Engineering	\$0,930	\$2,764	\$0	\$0	\$0 \$0	\$3,131	\$0	\$0	\$0	\$0 \$0	\$0 \$0
·					**	**				**	
Total	\$2,685,550	\$1,070,997	\$350,777	\$0	\$0	\$1,221,124	\$29,375	\$11,347	\$0	\$1,930	\$0
Primary Conductors and Poles Gross Assets	\$91,552,570	\$35,067,899	\$12,069,224	\$0	\$0	\$42,176,593	\$1,780,077	\$424,402	\$0	\$34,376	\$0
Acct 1815 - 1855	\$268,466,798	\$107,064,508	\$35,066,169	\$0	\$0	\$122,072,278	\$2,936,534	\$1,134,375	\$0	\$192,934	\$0



Exhibit: 7

Filed: April 30, 2019

Appendix 7-2: Required OEB Filing Appendices

File Number:	EB-2019-0049
Exhibit:	
Tab:	
Schedule:	
Page:	
Date:	

Appendix 2-Q Cost of Serving Embedded Distributor(s)

To be completed by Host Distributors ONLY

(Not required if Host Distributor has an Embedded Distributor rate class, i.e. a separate row on Sheet 11 of the RRWF.)

Proposed	Rate	Class	for	Billing	Embedded
dietributo	r/e\				

Waterloo North Hydro Inc.

Host's Distribution Facilities used by Embedded Distributor(s)

(1)	(2)	(3)	(4)	(5)	(6) = '(3) + (4)
Asset Class	Total OM&A costs asociated with asset class	Original cost of asset class	Accumulated amortization of asset class	Annual amortization of asset class	Net Book Value of asset class
Totals for Host Distributor:	(\$)	(\$)	(\$)	(\$)	
Distribution Stations					\$ -
Low Voltage Line					\$ -
LV Line category # 2 (if applcable)					\$ -
TS (owned by host)	\$ 3,053,100.00	\$ 78,118,600.96	-\$ 32,939,016.42	-\$ 1,804,711.05	\$ 45,179,584.54
O/H	\$ 3,986,300.00	\$ 85,644,735.86	-\$ 34,895,066.32	-\$ 1,491,568.10	\$ 50,749,669.54
U/G	\$ 2,102,700.00	\$ 66,026,087.62	-\$ 32,066,612.98	-\$ 1,333,053.72	\$ 33,959,474.64
					-

(1)	(7)	(8)	(9)	(10)	(11)
Asset Class	Total line length or station capacity in asset class	Line length or capacity required to provide LV service to Embedded Distributor(s)	Annual total demand on station/line providing LV services (sum of 12 monthly peaks)		Embedded Distributor(s)' Responsibility Share
Embedded Distributor's share:	kW or kVa; km	kW or kVA; km	kW or kVA	kW or kVA	percent
Distribution Stations					0.00%
Low Voltage Line					0.00%
LV Line # 2 (if applicable)					0.00%
TS (owned by host)	83,300.00	5,000.00	227,606	43,316	1.14%
O/H	1,017.70	14.30	227,606	43,316	0.27%
U/G	950.30	0.50	227,606	43,316	0.01%

(1)	(12)	(12a)	(13)	(14)	(15)	(16)
Asset Class	Return on Assets used to Provide LV services	Taxes/PILs	Annual amortization on assets used to provide LV services	OM&A costs with burden associated with assets used to provide LV services	Total annual cost associated with assets used to provide LV services	Monthly cost associated with the delivery of LV services
	(\$)	(\$)	(\$)	(\$)	(\$)	\$/kW or \$/kVA
Distribution Stations	\$ -	\$ -	\$ -	-	\$ -	0.00
Low Voltage Line	\$ -	\$ -	\$ -	-	\$	0.00
LV Line # 2 (if applicable)	\$	\$ -	\$ -	-	\$	0.00
TS (owned by host)	\$ 31,214.2017	\$ 6,740.6246	-\$ 20,615.73	\$ 34,876.44	\$ 52,215.53	1.21
O/H	\$ 8,214.6656	\$ 1,774.9071	-\$ 3,988.65	\$ 10,659.88	\$ 16,660.81	0.38
U/G	\$ 205.5757	\$ 44.3810	-\$ 133.48	\$ 210.55	\$ 327.02	0.01
Administration					\$ 8,304.40	0.19
Total					\$ 69,203.36	1.79

(17)	(18) Capital Structure (%)	(19) Cost Rate (%)	(20)	(21) (%)
Long-Term Debt Short-term Debt	56.00% 4.00%		Weighted Average Cost of Capital	6.02%
Common Equity Preferred Shares	40.00%	8.98%	Tax/PILs Rate	26.5%
Total	100.00%		Working Capital Allowance Factor	7.5%



Exhibit: 7

Filed: April 30, 2019

Appendix 7-3: WNHI Communication





April 10, 2019

Waterloo North Hydro Inc. 526 Country Squire Road Waterloo, ON N2J 4G8

Attn: Rene Gatien, President & CEO

Re: Kitchener-Wilmot Hydro Inc. – Cost of Service Application

Embedded Distributor Rates

Dear Rene:

Kitchener Wilmot Hydro Inc. (KWHI) is applying to the Ontario Energy Board (OEB) through a Cost of Service application for new embedded generator rates.

As part of KWHI's customer engagement activities, we value your comments and feedback with respect to the proposed changes to the distribution rates.

The following is an overview of the proposed changes:

Consistent with the rates as designed in the prior Cost of Service application, KWHI proposes to directly allocate its costs to your rate class. This cost allocation methodology has been approved by the OEB in the past.

Attached to this letter are the following documents:

Appendix 2-Q Cost of serving the embedded distributor

Appendix 2-W Bill impacts

We would appreciate receiving your comments and feedback no later than April 22nd, 2019. If you have any questions or require additional information, please do not hesitate to contact the undersigned at 519 749-6177.

Sincerely

Margaret Nanninga, MBA, CPA, CGA

Vice President Finance & CFO

File Number:
Exhibit:
Tab:
Schedule:
Page:

EB-2019-0049

Date:

):

Appendix 2-Q Cost of Serving Embedded Distributor(s)

To be completed by Host Distributors ONLY

(Not required if Host Distributor has an Embedded Distributor rate class, i.e. a separate row on Sheet 11 of the RRWF.)

Proposed Rate Class for Billing Embedded Distributor(s)

Waterloo North Hydro Inc.

Host's Distribution Facilities used by Embedded Distributor(s)

(1)	(2)	(3)	(4)	(5)	(6) = '(3) + (4)
Asset Class	Total OM&A costs asociated with asset class	Original cost of asset class	Accumulated amortization of asset class	Annual amortization of asset class	Net Book Value of asset class
Totals for Host Distributor:	(\$)	(\$)	(\$)	(\$)	
Distribution Stations					\$ -
Low Voltage Line					\$ -
LV Line category # 2 (if applcable)					\$ -
TS (owned by host)	\$ 3,053,100.00	\$ 78,118,600.96	-\$ 32,939,016.42	-\$ 1,804,711.05	\$ 45,179,584.54
O/H	\$ 3,986,300.00	\$ 85,644,735.86	-\$ 34,895,066.32	-\$ 1,491,568.10	\$ 50,749,669.54
U/G	\$ 2,102,700.00	\$ 66,026,087.62	-\$ 32,066,612.98	-\$ 1,333,053.72	\$ 33,959,474.64
					\$ -

(1)	(7)	(8)	(9)	(10)	(11)
Asset Class	Total line length or station capacity in asset class	Line length or capacity required to provide LV service to Embedded Distributor(s)	Annual total demand on station/line providing LV services (sum of 12 monthly peaks)	Annual billed Embedded Distributor demand on station/line providing LV services	Embedded Distributor(s)' Responsibility Share
Embedded Distributor's share:	kW or kVa; km	kW or kVA; km	kW or kVA	kW or kVA	percent
Distribution Stations	Magnitary adaptions				0.00%
Low Voltage Line					0.00%
LV Line # 2 (if applicable)					0.00%
TS (owned by host)	83,300.00	5,000.00	227,606	43,316	1.14%
O/H	1,017.70	14.30	227,606	43,316	0.27%
U/G	950.30	0.50	227,606	43,316	0.01%

(1) Asset Class	Return used to	(12) on Assets Provide LV ervices	(12a) Taxes/PILs		(13) nual amortization on sets used to provide LV services	bu	(14) OM&A costs with rden associated with sets used to provide LV services	as	(15) Total annual cost sociated with assets used to provide LV services	(16) Monthly cost associated with the delivery of LV services
		(\$)	(\$)		(\$)		(\$)		(\$)	\$/kW or \$/kVA
Distribution Stations	\$	-	\$ -	\$	-	\$	-	\$	-	0.00
Low Voltage Line	\$	-	\$ -	\$	-	\$	-	\$	-	0.00
LV Line # 2 (if applicable)	\$	-	\$ -	\$		\$	_	\$	_	0.00
TS (owned by host)	\$ 3	31,214.2017	\$ 6,740.6246	-\$	20,615.73	\$	34,876.44	\$	52,215.53	1.21
O/H	\$	8,214.6656	\$ 1,774.9071	-\$	3,988.65	\$	10,659.88	\$	16,660.81	0.38
U/G	\$	205.5757	\$ 44.3810	-\$	133.48	\$	210.55	\$	327.02	0.01
Administration								\$	8,304.40	0.19
Total								\$	69,203.36	1.79

(17)	(18) Capital Structure (%)	(19) Cost Rate (%)	(20)	(21)
Long-Term Debt Short-term Debt	56.00% 4.00%	4.13%	Weighted Average Cost of Capital	6.02%
Common Equity Preferred Shares	40.00%	8.98%	Tax/PILs Rate	26.5%
Total	100.00%		Working Capital Allowance Factor	7.5%

Customer Class: EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION
RPP / Non-RPP: (Non-RPP) (Other)
Consumption 1,500,000 (kWh
Demand 3,500 (kW

Current Loss Factor 1,0351

Proposed/Approved Loss Factor 1,0349

		Current	Current OEB-Approved			Proposed		q	mpact
		Rate	Volume	Charge	Rate	Volume	Charge		
		(\$)		(\$)	(\$)		(\$)	\$ Change	% Change
Monthly Service Charge	s	•	-		·	1	· ·	· G	
Distribution Volumetric Rate	s	2.3687	2 3600	\$ 8,527.32	\$ 3.3974	3600		\$ 3,703.32	43.43%
Fixed Rate Riders	s	•	_	, s	S	_	S	s	
Volumetric Rate Riders	s		3600		\$ 0.0311	3600	\$ 111.96	\$ 111.96	
Sub-Total A (excluding pass through)	187 38 383	A Charles of the		\$ 8,527.32		A LINE AND A STATE OF	\$ 12,342.60	\$ 3,815.28	44.74%
Line Losses on Cost of Power	s			. 8			S	- \$	
Total Deferral/Variance Account Rate	4	1.0438	3,600	\$ (3,757.68)	\$ 0.1311	3,600	\$ 471.96	\$ 4,229.64	-112.56%
Kiders CBB Class B Rate Riders	v	•	3 600	· ·	v	3 600	· ·	v.	
GA Rate Riders	· vs	•	1,500,000			1,500,000		S	
Low Voltage Service Charge	s	•	3,600	· ·		3,600	s	· s	
Smart Meter Entity Charge (if applicable)	49	•	-	· &		-	•	· ₩	
Additional Fixed Rate Riders	s	•	-	69	S	-	S	· s	
Additional Volumetric Rate Riders			3,600		· S	3,600	S		
Sub-Total B - Distribution (includes Sub-				\$ 4,769.64			\$ 12,814.56	\$ 8,044.92	168.67%
RTSR - Network	s	2.5650	3,600	\$ 9,234.00	\$ 2.6680	3,600	\$ 9,604.80	\$ 370.80	4.02%
RTSR - Connection and/or Line and	49	0.7970	3,600	\$ 2,869.20	\$ 0.7972	3,600	\$ 2,869.92	\$ 0.72	0.03%
nansionmation Commercian Sub-Total C - Delivery (including Sub- Total B)				\$ 16,872.84			\$ 25,289.28	\$ 8,416.44	49.88%
Wholesale Market Service Charge	49		1,552,650	69	S	1,552,350	69	· •	
(Wildow) Kinal and Remote Rate Protection Kenner			1,552,650	₩	45	1,552,350	€	. ↔	
HANNAY Standard Supply Service Charge Average IESO Wholesale Market Price	s	•	1,552,650	 	\$ 0.25 \$	1,552,350	\$ 0.25	\$ 0.25 \$ -	
1000日の日本の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の		の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の	のはいのとはないのである	新教育的政治院院的	网络超过超过超过	编程的图像影响影响	医多种性性性性性性		が とうない 日本の
Total Bill on Average IESO Wholesale Market Price HST		13%	%	\$ 16,872.84 \$ 2,193.47	13%		\$ 25,289.53 \$ 3,287.64	\$ 8,416.69 \$ 1,094.17	49.88% 49.88%
Total Bill on Average IESO Wholesale Market Price	1147770			\$ 19,066.31			\$ 28,577.17	\$ 9,510.86	49.88%
日本の日本の日本の一大学の日本の日本の日本の日本の一大学の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	SEASON CONTRACTOR		を できる は できる		STATE OF THE PERSON NAMED IN	SALVE BELLEVILLE STREET		THE REAL PROPERTY AND PERSONS ASSESSED.	The second of th