### **OPERATING COSTS**

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#### OVERVIEW

#### **Operating Costs**

This Exhibit provides evidence for supporting Operating Costs. These include Operations, Maintenance and Administration ("OM&A") costs; Depreciation and Amortization expenses; Payments in Lieu of Taxes ("PILs"); and Property Taxes. More particularly, OM&A costs in this Exhibit represent OPUCN's integrated set of asset maintenance and customer activity needs to meet public and employee safety objectives; to comply with the Distribution System Code ("DSC"), environmental requirements and government direction; and, to maintain distribution business service quality and reliability that meet or exceed regulated performance levels. OM&A costs also include the provision of services to customers connected to OPUCN's distribution system and meeting the requirements of the OEB's Standard Supply Service Code ("SSSC"), DSC and Retail Settlement Code ("RSC"). Operating costs for the Test Years range from \$16.3 million in the 2015 Test Year to \$19.1 million in the 2019 Test Year. Within these amounts, OM&A costs (including property taxes) range from \$12.1 million in the 2015 Test Year to \$13.2 million in the 2019 Test Year, as shown in Table 4-1.

Operating costs for 2011 Actual year, are provided on a Canadian Generally Accepted Accounting Principles ("CGAAP") basis. The operating costs for the 2012 to 2013 historical years, the 2014 Bridge Year and the 2015 to 2019 Test Years are provided on a Modified International Financial Reporting Standards ("MIFRS") basis , in accordance with the Board's guidelines. In connection with OPUCN's cost of service application for 2012 rates (EB-2011-0073), OPUCN adopted MIFRS in compliance with the Board's letter dated March 15, 2011 – *Use of Modified IFRS as a Basis for Filing Cost of Service Applications for 2012 Rates*.

As noted in Exhibit 1, this Application is being filed as a Custom IR Application as provided in the Board's Renewed Regulatory Framework for Electricity ("RRFE"). The five Test Years for this Application are 2015-2019.

#### OM&A TEST YEAR LEVELS

The proposed OM&A costs for the Test Years range from \$12.1 million in the 2015 Test Year to \$13.2 million in the 2019 Test Year. The 2019 forecast expenditures of \$13.2 million are 14.8% or \$1.7 million higher than the 2012 expenditures approved by the OEB in OPUCN's latest rebasing application (EB-2011-0073), and 17.3% or \$1.9 million higher than the utility's subsequent actual 2012 expenditures. Overall, the cost increases from the 2012 Board-Approved to 2019 Test Year amounts represent an average of 2.0% a year. OPUCN has endeavoured to maintain a reasonable balance between necessary investments and customer bill impacts in developing its OM&A forecasts for the 2015-2019 Test Years.

Year	Reporting Basis	\$	Year over Year Change	CAGR v 2012 Approved
2011 Actual	CGAAP	10,323		
2012 Board Approved	MIFRS	11,480	11.2%	
2012 Actual	MIFRS	11,240	8.9%	
2013 Actual	MIFRS	11,210	-0.3%	-2.4%
2014 Bridge Year	MIFRS	11,291	0.7%	-0.8%
2015 Test Year	MIFRS	12,146	7.6%	1.9%
2016 Test Year	MIFRS	12,614	3.9%	2.4%
2017 Test Year	MIFRS	12,887	2.2%	2.3%
2018 Test Year	MIFRS	13,110	1.7%	2.2%
2019 Test Year	MIFRS	13,183	0.6%	2.0%

TABLE 4-1 – OM&A LEVELS 2011-2019 (INCLUDES PROPERTY TAXES)

# **OVERALL TRENDS IN COSTS**

#### OM&A Trend Analysis

Table 4-2 - OM&A Trend Analysis provides an analyses of the key OM&A metrics from 2011 Actual through to the 2019 Test Year.

The analysis shows cumulative average growth in total OM&A of 2.0% when compared to the approved OM&A amounts from the last rebasing year (2012). The primary driver for the cumulative average growth rate in OM&A is a planned increase in OPUCN's full time equivalent employees ("FTE") of 6, from 75 to 81, required to support the expected

increase in customer connections. Forecast customer connections are expected to increase by more than 16% over the same period.

OM&A Trends	2011	2012	2012	2013	2014
\$000's except per customer	Actual	Approved	Actual	Actual	Bridge
FTE's	69	75	74	74	75
Year over Year Change		8.7%	7.0%	0.1%	1.4%
CAGR vs 2012 Approved				-1.4%	-0.1%
Labour	5,867	6,574	6,471	6,952	6,999
Year over Year Change		12.1%	10.3%	7.4%	0.7%
CAGR vs 2012 Approved				5.7%	3.2%
Benefits	2,311	2,602	2,609	2,304	2,207
Year over Year Change		12.6%	12.9%	-11.7%	-4.2%
CAGR vs 2012 Approved				-11.5%	-7.9%
Other OM&A	2,145	2,304	2,161	1,955	2,085
Year over Year Change		7.4%	0.7%	-9.5%	6.7%
CAGR vs 2012 Approved				-15.1%	-4.9%
Total OM&A	10,323	11,480	11,240	11,210	11,291
Year over Year Change		11.2%	8.9%	-0.3%	0.7%
CAGR vs 2012 Approved				-2.4%	-0.8%
Number of Customers	53,071	54,410	53,395	53,925	54,613
OM&A cost per customer	\$194.5	\$211.0	\$210.5	\$207.9	\$206.8
Year over Year Change		8.5%	8.2%	-1.3%	-0.5%
CAGR vs 2012 Approved				-1.5%	-1.0%
OM&A Trends	2015	2016	2017	2018	2019
\$000's except per customer	Test	Test	Test	Test	Test
FTE's	80	85	84	83	81
Year over Year Change	7.3%	5.2%	-0.2%	-1.5%	-2.8%
CAGR vs 2012 Approved	7.2%	12.7%	12.5%	10.8%	7.7%
Labour	7,512	7,948	8,144	8,284	8,290
Year over Year Change	7.3%	5.8%	2.5%	1.7%	0.1%
CAGR vs 2012 Approved	4.5%	4.9%	4.4%	3.9%	3.4%
Benefits	2,275	2,347	2,383	2,424	2,450
Year over Year Change	3.1%	3.2%	1.5%	1.7%	1.1%
CAGR vs 2012 Approved	-4.4%	-2.6%	-1.7%	-1.2%	-0.9%
Other OM&A	2,359	2,320	2,360	2,402	2,444
Year over Year Change	13.1%	-1.7%	1.8%	1.8%	1.8%
CAGR vs 2012 Approved	0.8%	0.2%	0.5%	0.7%	0.8%
Total OM&A	12,146	12,614	12,887	13,110	13,183
Year over Year Change	7.6%	3.9%	2.2%	1.7%	0.6%
CAGR vs 2012 Approved	1.9%	2.4%	2.3%	2.2%	2.0%
Number of Customers	56,251	57,939	59,677	61,467	63,311
OM&A cost per customer	\$215.9	\$217.7	\$215.9	\$213.3	\$208.2
Year over Year Change	4.4%	0.8%	-0.8%	-1.2%	-2.4%
CAGR vs 2012 Approved	0.8%	0.8%	0.5%	0.2%	-0.2%

## TABLE 4-2 OM&A TREND ANALYSIS

The "Number of Customers" excludes streetlight, sentinel light and unmetered scattered load connections as per OEB's *Yearbook* calculations of "OM&A Cost per Customer" metric.

Table 4-3 - OM&A Indexed at IRM Rates illustrates the level of OM&A cost assumed under the Board expectations for productivity and efficiency, given a "steady-state mode" of operations; that is, normal customer growth.

OM&A - at IRM Index Rates	2012	2013	2014	2015	2016	2017	2018	2019
\$000's	Approved	Actual	Bridge	Test	Test	Test	Test	Test
Total OM&A	11,480							
IRM %		1.08%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
Total OM&A @ IRM Rates		11,604	11,784	11,967	12,152	12,341	12,532	12,726
OM&A Requested				12,146	12,614	12,887	13,110	13,183
Difference				(179)	(462)	(546)	(578)	(457)

 TABLE 4-3 - OM&A INDEXED AT IRM RATES

The Board-Approved productivity factor applicable to OPUCN for purposes of the 2014 IRM rate adjustments was zero percent. Although the Board applied a 0.72% productivity factor to 2013 IRM rate adjustments, more current analysis within and underlying the Report clarifies realistic expectations for productivity at 0%. Consequently, OPUCN has used a 0% productivity factor for all years within its IRM index analysis in Table 4-3. The Stretch Factors used in the index analysis in Table 4-3 correspond to historical and current Board-Approved values for OPUCN.

The projected OM&A costs of \$13.2 million in 2019 are \$0.5 million higher than would be expected to be approved from 2012 to that year (\$12.7 million), as calculated using IRM based adjustments for inflation less the productivity and stretch factors applicable to OPUCN. The drivers behind this request are detailed later in this application.

The "*Empirical Research in Support of Incentive Rate-Setting: 2013 Benchmarking Update*" report ("Rate Setting Report") provided to the OEB by Pacific Economics Group Research LLC (PEG) in July 2014 notes that, "for the average company, the number of customers was found to be a more important cost driver than the other two combined. For each 1% change in number of customers, cost was estimated to change by 0.44%". Applying this to OPUCN, expected OM&A costs for 2019 would be \$13.6 million, or \$0.4 million greater than forecast. OPUCN considers the \$0.4 million to represent

productivity efficiencies embedded within its forecast although the nature of these efficiencies have not been specifically identified.

OPUCN recognizes the expectation of the Board for productivity and is committed to delivering such to its customers to provide them with electricity distribution at a reasonable cost.

**Table 4-4** - OM&A by Customer, which is a metric reported by the OEB in its *Annual Yearbook of Electricity Distributors*, illustrates the embedded efficiencies within OPUCN's forecast for the period 2015 to 2019. Adjusting OM&A costs for inflation, using IRM actual and assumed rates as the inflation rate, OM&A per customer reduces by approximately \$23 per customer (11.0%) in 2019 compared to the level approved by the OEB in OPUCN's most recent rebasing application (EB-2011-0073). OPUCN believes this is another reasonable representation of embedded efficiencies totaling \$1.3 million which includes both expected productivity and the incremental (\$0.4 million) gains identified previously.

OM&A per Customer	2011	2012	2012	2013	2014	2015	2016	2017	2018	2019
\$000's except per customer	Actual	Approved	Actual	Actual	Bridge	Test	Test	Test	Test	Test
Number of Customers	53,071	54,410	53,395	53,925	54,613	56,251	57,939	59,677	61,467	63,311
OM&A Costs (\$000s)	10,323	11,480	11,240	11,210	11,291	12,146	12,614	12,887	13,110	13,183
OM&A per Customer	195	211	211	208	207	216	218	216	213	208
Inflation Adjusted										
Inflation % (IRM Rate)				1.08%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
OM&A Costs				11,090	11,000	11,652	11,917	11,988	12,010	11,893
OM&A per Customer	195	211	211	206	201	207	206	201	195	188

 TABLE 4-4 – OM&A PER CUSTOMER 2011-2019

# PEG – Benchmarking the Forecasted Cost of Oshawa PUC Networks (PEG Report)

PEG is a leading utility cost research consultancy who have filed rigorous benchmarking and productivity studies in regulatory proceedings for two decades. Some of their work in Ontario includes benchmarking evidence for Enbridge Gas Distribution and Hydro One Networks, and twice developed power distributor benchmarking and productivity studies for the Board. The Board has used PEG's studies to set X factors in IR price escalation formulas and for the Board's latest IR cycle, PEG developed econometric total cost benchmarking models along with a study of trends in the productivity of Ontario power distributors.

OPUCN retained PEG to appraise its forecasted total cost for the IR plan period using the Board's econometric total cost model for OPUCN to benchmark the Company's forecast of its total costs from 2015 to 2019. For benchmarking purposes, total cost is represented by the sum of OM&A expenses plus capital cost.

The appraisal revealed that OPUCN's cost performance will gradually rise from a level commensurate with a Group 3 stretch factor in 2015 to levels commensurate with a Group 2 stretch factor in later years of the plan. Forecasted cost will be 11.7% below the econometric cost benchmark on average.

In addition to the benchmarking exercise, PEG calculated the productivity growth implicit in the Company's cost forecast. PEG reported that the productivity of operation, maintenance, and administration inputs would average 2.17% annual growth. The productivity of capital inputs would average 0.12% growth. Total factor productivity would average 0.87% annual growth. The OM&A and total factor productivity trends are well above the average historical trends for Ontario power distributors which PEG calculated in their recent work for the Board.

The following table compares the forecasted productivity trends with the average trends for Ontario power distributors. Compared to both the nine-year 2003through 2011 period and the ten-year 2003through 2012 period, the forecasted OM&A and total factor productivity trends of OPUCN are well above the average historical trends for the industry.

	Comparison of Productivity Trends							
	OPUCN Average	Ontario Distrik	outor Averages					
	2015 – 2019	2003 – 2011	2003 – 2012					
OM&A	2.17%	0.51%	- 0.40%					
Capital	0.12%	0.01%	- 0.26%					
Total Productivity Factor	0.87%	0.19%	- 0.33%					

The PEG Report supports OPUCN's assertion that its investments in capital expenditures are fair and reasonable, and comparable to spending levels of other LDCs in the Province. In addition, the PEG Report provides an independent position that OPUCN's OM&A expenses will remain among the highest efficiency levels as determined by the Board's benchmarking studies.

The full PEG Report can be found below as an Appendix to Exhibit 1.

#### Inflation Rate Assumptions

The Board has specified an approach to an inflation factor within the Rate Setting Report. The Board has adopted a 2-factor input price index ("IPI") that includes a labour and non-labour component that are weighted based on estimates from a review of the proportionate cost shares by medium and large distributors (70% Non-Labour and 30% Labour).

OPUCN submits that the estimated weightings do not correspond to its actual labour and non-labour weightings for purposes of analyzing an OM&A price index. The labour (including benefits) component of OM&A is relatively consistent at 61% of OM&A with the remainder categorized as non-labour. OPUCN has used its actual historical weightings for purposes of its forecast. OPUCN has used the inflation rate for labour costs as per its current collective bargaining agreement, details of which are described in the Employee Compensation section below, and for other OM&A costs has used rates from the Conference Board of Canada CPI for Ontario (2% 2015 & 2016, 2.1% 2017 forward).

## **Summary of Operating Costs**

Table 4-5 provides a summary of operating costs for the previous Board-Approved Year and the relevant historical years, the 2014 Bridge Year and the 2015-2019 Test Years.

	2011	2012 Board	2012	2013	2014
	Actual	Approved	Actual	Actual	Bridge
	(CGAAP)	(MIFRS)	(MIFRS)	(MIFRS)	Year
					(MIFRS)
OM&A (excluding Property Taxes)	10,178	11,331	11,091	11,058	11,136
Property Taxes	144	149	149	152	155
Depreciation and Amortization	5,076	2,858	3,032	3,652	3,845
PILS (income taxes)	1,637	325	47	162	123
Total Operating Costs	17,036	14,663	14,320	15,024	15,260
	2015 Test	2016 Test	2017 Test	2018 Test	2019 Test
	Year	Year	Year	Year	Year
	(MIFRS)	(MIFRS)	(MIFRS)	(MIFRS)	(MIFRS)
OM&A (excluding Property Taxes)	11,987	12,453	12,722	12,941	13,011
Property Taxes	158	162	165	168	172
Depreciation and Amortization	3,896	4,847	5,001	5,203	5,371
PILS (income taxes)	148	304	365	469	485
Total Operating Costs	16,190	17,765	18,253	18,782	19,039

#### TABLE 4-5 – SUMMARY OF OPERATING COSTS 2011-2019

#### Associated Cost Drivers and Significant Changes

The major drivers that produce significant changes in OM&A levels in the Test Years relative to the historical years and the 2014 Bridge Year are as follows:

- Inflation
- Succession planning to manage high level of retirements in the period
- Additional 5.8 FTE's to 2012 Board-Approved to handle customer connection growth assumed in period

In addition to OM&A, Operating Costs include Depreciation and Amortization expenses; Payments in Lieu of Taxes ("PILs"); and Property Taxes. These costs are discussed below.

#### **Depreciation and Amortization**

OPUCN adheres to Modified International Financial Reporting Standards (MIFRS) capitalization accounting treatments for rate making and regulatory reporting purposes. OPUCN's most recent rebasing application (EB-2011-0073) included the transition to MIFRS effective January 1, 2012. Depreciation is computed on a straight-line basis over the estimated useful life of the item of property, plant and equipment, with six months of depreciation charged in the year of addition. The depreciable amount of an asset is determined after deducting its estimated residual value, if material. OPUCN has no property, plant and equipment with residual values.

Depreciation expense includes depreciation of current and forecast fixed assets, plus amortization of the Property Plant & Equipment ("PP&E") Deferral Account approved in OPUCN's 2012 Cost of Service rate application. The PP&E Deferral Account balance is a result of the restatement of January 1, 2012 PP&E balances under MIFRS, and is being amortized over four years ending in 2015.

OPUCN's 2015 Test Year depreciation expense, excluding amortization of the PP&E Deferral account, is \$4,491,588, an increase of \$1,415,404 or 46.0% from the 2012 Board-Approved amount.

The increase in depreciation expense in 2015 is due to significantly higher capital expenditures in the period 2011-2014 than in prior years, a trend that is forecast to continue in the 2015-2019 period.

#### PILs

OPUCN is liable for the payment of PILs on its taxable income computed in accordance with Section 93 of the *Electricity Act 1998* (Ontario) as amended. OPUCN is exempt from paying income taxes under the *Income Tax Act* (Canada) and the *Corporations Tax Act* (Ontario). OPUCN proposed 2015 Test Year PILs are \$148,243, a decrease of

\$177,128 or 54.4% as compared to the 2012 COS Board-Approved allowance for PILs. This reduction is primarily due to increased timing differences between depreciation of assets for accounting purposes and depreciation of assets for income tax purposes (Capital Cost Allowance or "CCA") driven by high levels of capital expenditure. OPUCN follows the guidance as specified in the Board's Accounting Procedures Handbook. Due to significant capital investments in recent years and the disparity between useful asset lives for taxation as compared to accounting, CCA materially exceeds depreciation creating timing differences which reduces the effective amount of PILs payable on taxable income well below the amount otherwise computed by applying the combined federal and Ontario rates of PILs to regulatory income before PILs.

#### **Business Environment Changes**

There have been no major changes to OPUCN's business environment since the previous Board-Approved Test Year. OPUCN is not aware of any expected changes to the business environment in the Bridge Year and the Test Years covered in this Application.

#### **Property Taxes**

OPUCN pays property taxes to the City of Oshawa on the facilities that it owns. Property taxes on the administration facilities are recorded in account 6105 Taxes Other Than Income Taxes. All other Property Taxes are allocated to OM&A as an expense to the departments occupying those facilities. Table 4-6 below summarizes the Property Taxes for all of OPUCN's properties:

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		2012			2014	2015	2016	2017	2018	2019
	2011	Board	2012	2013	Bridge	Test	Test	Test	Test	Test
Location	Actual	Approved	Actual	Actual	Year	Year	Year	Year	Year	Year
36 Keewatin	8,128	8,450	8,448	8,845	8,959	9,138	9,321	9,507	9,697	9,891
1427 Harmony Rd N	9,310	9,134	9,131	9,446	9,567	9,758	9,954	10,153	10,356	10,563
S/S 0 Wentworth St E	8,688	9,232	9,229	9,501	9,622	9,815	10,011	10,211	10,416	10,624
0 Stevenson Rd S	7,244	7,164	7,162	8,859	9,692	9,886	10,084	10,286	10,491	10,701
100 Simcoe St S	60,247	62,062	62,045	59,148	59,981	61,180	62,404	63,652	64,925	66,223
25 Taunton Rd E	7,568	8,109	8,107	8,354	8,461	8,630	8,803	8,979	9,159	9,342
0 Bloor St W	10,904	10,697	10,694	11,029	11,171	11,394	11,622	11,855	12,092	12,333
E/S Wilson Rd N	2,535	2,632	2,631	2,336	2,536	2,587	2,639	2,692	2,745	2,800
495 Stevenson Rd N	8,327	9,085	9,083	9,337	9,456	9,646	9,839	10,035	10,236	10,441
0 Emma St	9,631	10,419	10,416	10,651	10,787	11,003	11,223	11,448	11,677	11,910
124 Colborne St W	6,019	6,163	6,161	7,141	7,362	7,510	7,660	7,813	7,969	8,129
490 Trick Ave	5,838	6,204	6,202	7,644	7,742	7,897	8,055	8,216	8,380	8,548
Total	144,439	149,350	149,309	152,292	155,338	158,445	161,613	164,846	168,143	171,506

#### TABLE 4-6 – PROPERTY TAXES 2011-2019

# Summary of Cost Drivers

Table 4-7 presents OM&A costs for 2011 through 2019. OPUCN has also provided a high-level breakdown of cost drivers for each year.

	2011 Actual (CGAAP)	2012 Board Approved (MIFRS)	2012 Actual (MIFRS)	2013 Actual (MIFRS)	2014 Bridge Year (MIFRS)
Opening Balance	9,112,991	11,480,220	10,322,790	11,240,450	11,210,095
Salaries & Wages	384,911	(103,433)	604,308	480,709	47,824
Benefits	225,216	6,308	297,750	(304,935)	(96,565)
Allocated Expenses	324,165	13,690	222,220	(319,978)	200,872
Other	275,508	(156,335)	(206,618)	113,849	(70,753)
Total OM&A	10,322,790	11,240,450	11,240,450	11,210,095	11,291,473
	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
	(MIFRS)	(MIFRS)	(MIFRS)	(MIFRS)	(MIFRS)
Opening Balance	11,291,473	12,145,702	12,614,203	12,886,688	13,109,806
Salaries & Wages	512,868	435,674	195,855	140,310	5,640
Benefits	67,486	71,950	35,992	41,257	25,955
Allocated Expenses	(145,612)	(119,064)	(96,180)	(98,344)	(100,557)
Other	419,488	79,941	136,818	139,895	142,647
Total OM&A	12,145,702	12,614,203	12,886,688	13,109,806	13,183,490

#### TABLE 4-7 – OM&A 2011 – 2019

The high-level cost drivers are as follows:

- Salaries and wages include overtime and incentive-based remuneration. The primary determinants of changes in salary and wage costs are annual inflation and changes in staffing levels.
- Benefits include current and post-retirement health benefits, employer payroll taxes and pensions. Changes in Ontario Municipal Employees Retirement System ("OMERS") employer contribution rates and other benefit rates, together with actuarial valuation changes to post-retirement benefit obligations, can drive changes in these costs.
- Allocated expenses are primarily labour costs allocated to capital jobs, jobbing work and affiliates. The primary determinants of changes in allocated expenses are annual inflation and changes in staffing levels, as well as changes in levels of service provided to affiliates.
- Other includes third-party costs for existing core business requirements such as: facilities costs; repairs and maintenance on equipment, fleet and buildings; tree trimming; consulting and outside service provider costs; insurance; computer maintenance; software licences; and training and development. The primary determinants of changes in other expenses are price inflation.

# SUMMARY AND COST DRIVER TABLES

#### Summary of Recoverable OM&A Expenses

OPUCN's total recoverable OM&A Expenses, excluding property taxes, are provided in Table 4-8 below, with Bridge Year and Test Years compared to 2012 Board-Approved, 2012 Actuals and 2013 Actuals.

	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Reporting Basis	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Total Recoverable OM&A Expenses	11,033,491	11,111,093	11,959,797	12,422,525	12,690,388	12,908,854	12,978,260
Comarison to 2012 Board Approved	11,330,870						
\$ Change	(297,379)	(219,776)	628,928	1,091,656	1,359,518	1,577,985	1,647,391
% Change	-2.6%	-1.9%	5.6%	9.6%	12.0%	13.9%	14.5%
CAGR	-2.6%	-1.0%	1.8%	2.3%	2.3%	2.2%	2.0%
Comarison to 2012 Actuals	11,067,089						
\$ Change	(33,598)	44,004	892,708	1,355,436	1,623,299	1,841,765	1,911,171
% Change	-0.3%	0.4%	8.1%	12.2%	14.7%	16.6%	17.3%
CAGR	-0.3%	0.2%	2.6%	2.9%	2.8%	2.6%	2.3%
Comarison to 2013 Actuals							
\$ Change		77,603	926,306	1,389,035	1,656,897	1,875,364	1,944,769
% Change		0.7%	8.4%	12.6%	15.0%	17.0%	17.6%
CAGR		0.7%	4.1%	4.0%	3.6%	3.2%	2.7%

### TABLE 4-8 SUMMARY OF TOTAL RECOVERABLE OM&A EXPENSES 2012 – 2019

Tables 4-9 and 4-10 below provide a summary of OPUCN's recoverable OM&A Expenses, excluding property taxes, by major functions.

	2011 Actuals	Last Rebasing Year (2012 Board- Approved)	Last Rebasing Year (2012 Actuals)	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Operations	749,243	982,254	1,167,906	919,397	1,025,060	1,288,019	1,484,147	1,593,497	1,579,144	1,410,513
Maintenance	1,048,680	1,409,450	1,094,190	1,313,715	1,311,703	1,346,279	1,375,515	1,405,469	1,436,077	1,467,354
SubTotal	1,797,923	2,391,704	2,262,096	2,233,112	2,336,763	2,634,298	2,859,662	2,998,966	3,015,221	2,877,866
%Change (year over year)				-1.3%	4.6%	12.7%	8.6%	4.9%	0.5%	-4.6%
%Change (Test Year vs Last Rebasing Year - Actual)						16.5%	26.4%	32.6%	33.3%	27.2%
CAGR vs 2012 Actual						5.2%	6.0%	5.8%	4.9%	3.5%
Billing and Collecting	2,358,686	2,433,401	2,398,127	2,462,960	2,594,648	2,653,062	2,715,401	2,780,102	2,846,477	2,914,572
Community Relations	973,010	945,160	1,004,587	1,092,298	1,097,367	1,161,723	1,309,846	1,337,732	1,366,218	1,395,314
Administrative and General	5,022,130	5,560,605	5,402,280	5,245,121	5,082,316	5,510,715	5,537,617	5,573,587	5,680,939	5,790,507
SubTotal	8,353,826	8,939,166	8,804,993	8,800,379	8,774,330	9,325,500	9,562,864	9,691,422	9,893,633	10,100,394
%Change (year over year)			-1.5%	-0.1%	-0.3%	6.3%	2.5%	1.3%	2.1%	2.1%
%Change (Test Year vs Last Rebasing Year - Actual)						5.9%	8.6%	10.1%	12.4%	14.7%
CAGR vs 2012 Actual						1.9%	2.1%	1.9%	2.0%	2.0%
Total	10,151,749	11,330,870	11,067,089	11,033,491	11,111,093	11,959,797	12,422,525	12,690,388	12,908,854	12,978,260
%Change (year over year)			-2.3%	-0.3%	0.7%	7.6%	3.9%	2.2%	1.7%	0.5%
CAGR vs 2012 Actual						2.6%	2.9%	2.8%	2.6%	2.3%
Operations	749,243	982,254	1,167,906	919,397	1,025,060	1,288,019	1,484,147	1,593,497	1,579,144	1,410,513
Maintenance	1,048,680	1,409,450	1,094,190	1,313,715		1,346,279	1,375,515	1,405,469	1,436,077	1,467,354
Billing and Collecting	2,358,686	2,433,401	2,398,127	2,462,960	2,594,648	2,653,062	2,715,401	2,780,102	2,846,477	2,914,572
Community Relations	973,010	945,160	1,004,587	1,092,298	1,097,367	1,161,723	1,309,846	1,337,732	1,366,218	1,395,314
Administrative and General	5,022,130	5,560,605	5,402,280	5,245,121	5,082,316	5,510,715	5,537,617	5,573,587	5,680,939	5,790,507
Total	10,151,749	11,330,870	11,067,089	11,033,491	11,111,093	11,959,797	12,422,525	12,690,388	12,908,854	12,978,260
%Change (year over year)			-2.3%	-0.3%	0.7%	7.6%	3.9%	2.2%	1.7%	0.5%

#### TABLE 4-10 – CHAPTER 2 FILING REQUIREMENT APPENDIX 2-JA - SUMMARY OF RECOVERABLE OM&A EXPENSES 2011 – 2019

	2011 Actuals	Last Rebasing Year (2012 Board- Approved)	BA – 2011	Year (2012		2013 Actuals	Variance 2013 Actuals vs. 2012 Actuals	2014 Bridge Year	Variance 2014 Bridge vs. 2013 Actuals
Operations	749,243	982,254	(233,011)	1,167,906	185,652	919,397	(248,509)	1,025,060	105,663
Maintenance	1,048,680	1,409,450	(360,770)	1,094,190	(315,260)	1,313,715	219,525	1,311,703	(2,012)
Billing and Collecting	2,358,686	2,433,401	(74,715)	2,398,127	(35,274)	2,462,960	64,833	2,594,648	131,688
Community Relations	973,010	945,160	27,850	1,004,587	59,427	1,092,298	87,711	1,097,367	5,068
Administrative and General	5,022,130	5,560,605	(538,475)	5,402,280	(158,325)	5,245,121	(157,158)	5,082,316	(162,805)
Total Recoverable OM&A Expenses	10,151,749	11,330,870	(1,179,121)	11,067,089	(263,781)	11,033,491	(33,598)	11,111,093	77,603
Variance from previous year				915,340		(33,598)		77,603	
Percent change (year over year)				9.0%		-0.3%		0.7%	
Simple average of % variance for all years						-0.3%			
Compound Growth Rate (2014 Actuals vs. 2011 Actuals)						4.3%			

#### VARIANCES

	2015 Test Year	Variance 2015 Test vs. 2014 Bridge	2016 Test Year	Variance 2016 Test vs. 2015 Test	2017 Test Year	Variance 2017 Test vs. 2016 Test	2018 Test Year	Variance 2018 Test vs. 2017 Test	2019 Test Year	Variance 2019 Test vs. 2018 Test
Operations	1,288,019	262,959	1,484,147	196,129	1,593,497	109,350	1,579,144	(14,353)	1,410,513	(168,631)
Maintenance	1,346,279	34,576	1,375,515	29,236	1,405,469	29,954	1,436,077	30,608	1,467,354	31,276
Billing and Collecting	2,653,062	58,414	2,715,401	62,339	2,780,102	64,701	2,846,477	66,374	2,914,572	68,096
Community Relations	1,161,723	64,356	1,309,846	148,122	1,337,732	27,887	1,366,218	28,485	1,395,314	29,097
Administrative and General	5,510,715	428,399	5,537,617	26,902	5,573,587	35,970	5,680,939	107,352	5,790,507	109,568
Total OM&A Expenses	11,959,797	848,704	12,422,525	462,728	12,690,388	267,862	12,908,854	218,467	12,978,260	69,406
Variance from previous year	848,704		462,728		267,862		218,467		69,406	
Percent change (year over year)	7.6%		3.9%		2.2%		1.7%		0.5%	
Percent Change: Test year vs. Most Current Actual	8.4%		12.6%		15.0%		17.0%		17.6%	
Simple average of % variance for all years		4.0%		4.0%		3.7%		3.4%		3.1%
Compound Annual Growth Rate for all years vs. 2011 Actuals		4.5%		4.5%		4.2%		3.9%		3.5%
Compound Annual Growth Rate for all years vs. 2012 Actuals		2.7%		3.1%		2.9%		2.8%		2.5%

Note:

1 "BA" = Board-Approved

#### **Operations and Maintenance Costs**

The increase in Operations and Maintenance costs from 2012 Actual (\$2,262,096) to the 2015 Test Year (\$2,634,298) is 16.5%, and to the 2019 Test Year (\$2,877,866) is 27.2%. The compound annual growth rate for the years 2015 to 2019 compared to 2012 Actual is 5.2%, 6.0%, 5.8%, 4.9% and 3.5% respectively.

The main drivers of the increase are:

- Inflation estimated to average approximately 2.0% over the period to 2019;
- A net increase in FTE's of 4.4 over the period to accommodate customer and city growth;
- A temporary spike in labour costs in 2015 to 2017 due to overlap caused by succession planning for large number of retirements;
- Offsetting cost reductions from:
  - reduced vehicle expenses from modernised fleet; and
  - lower security expenses due to move from mostly manual based security system to more modern system with improved equipment and remote video monitoring.

#### **Billing and Collecting**

The increase in Billing and Collecting costs from 2012 Actual (\$2,398,127) to the 2015 Test Year (\$2,653,062) is 10.6%, and to the 2019 Test Year (\$2,914,572) is 21.5%. The compound annual growth rate for the years 2015 to 2019 compared to 2012 Actual is 3.4%, 3.2%, 3.0%, 2.9% and 2.8% respectively.

The main drivers of the increase are:

- Inflation estimated to average approximately 2.0% over the period to 2019;
- An increase in bad debt expense of \$184,753 in 2019 compared to 2012 Actual. The 2012 amount is not representative of actual run rates as it included an adjustment to the 2011 provision for expected increases in bad debts resulting from new customer service rules that did not materialise. The 2019 amount is

based on the average annual write-offs over the period 2011 to 2013, uplifted to reflect projected customer and energy cost growth.

#### **Community Relations**

The increase in Community Relations costs from 2012 Actual (\$1,004,587) to the 2015 Test Year (\$1,161,723) is 15.6%, and to the 2019 Test Year (\$1,395,314) is 38.9%. The compound annual growth rate for the years 2015 to 2019 compared to 2012 Actual is 5.0%, 6.9%, 5.9%, 5.3% and 4.8% respectively.

The main drivers of the increase are:

- Inflation estimated to average approximately 2.0% over the period to 2019;
- the addition of 1 FTE to accommodate customer growth;
- the addition of subcontracted services to fulfil additional requirements covering customer engagement, communications and privacy rules in accordance with the Board's guidelines outlined in its RRFE Report.

# Administrative and General

The increase in Administrative and General costs from 2012 Actual (\$5,402,280) to the 2015 Test Year (\$5,510,715) is 2.0%, and to the 2019 Test Year (\$5,790,507) is 7.2%. The compound annual growth rate for the years 2015 to 2019 compared to 2012 Actual is 0.7%, 0.6%, 0.6%, 0.8% and 1.0% respectively.

The main drivers of the increase are:

- Inflation estimated to average approximately 2.0% over the period to 2019;
- the addition of 1.4 FTE to accommodate increased requirements in IT to manage increasing use of advanced technologies;
- the addition of subcontracted services to support increased use of technology in the maintenance and support of the distribution system;
- Offsetting cost reductions from reduced annual costs related to post-retirement benefits, driven by the latest (2013) actuarial valuation. The projected reduction in 2015 is approximately \$400,000 compared to 2012 Actual, with primarily inflationary increases projected thereafter. Without this saving, the compound

annual growth rate for the year 2019 compared to 2012 Actual would be approximately 2.3%.

# **OM&A COST DRIVERS**

OPUCN has provided its OM&A Cost Drivers in Table 4-11 (corresponding to the Board's Appendix 2-JB). The closing balance for each year becomes the opening balance for the following year for purposes of assessing incremental cost drivers.

#### TABLE 4-11 – CHAPTER 2 FILING REQUIREMENT APPENDIX 2-JB – RECOVERABLE OM&A COST DRIVER TABLE 2011 – 2019

OM&A	2011 Actuals	Last Rebasing Year (2012 Approved)	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Opening Balance	\$9,112,991	\$11,480,220	\$11,240,450	\$11,210,095	\$11,291,473	\$12,145,702	\$12,614,203	\$12,886,688	\$13,109,806
Labour inflation (including progression)	\$168,800	\$0	\$253,924	\$154,093	\$126,181	\$167,917	\$173,089	\$175,582	\$186,486
Succession Planning (Retirements)	\$0	\$0	\$0	\$0	\$77,793	\$160,666	\$23,728	\$(34,302)	\$(179,869)
New Hires	\$48,233	\$(69,723)	\$0	\$74,950	\$179,173	\$107,811	\$0	\$0	\$0
Overlap re Leavers/ Replacements	\$218,610	\$(32,084)	\$5,444	\$(87,024)	\$101,630	\$0	\$0	\$0	\$0
Overtime re Dec 2012 Ice Storm			\$184,609	\$(184,609)					
Labour Other (including overtime)	\$(50,732)	\$(1,626)	\$36,733	\$90,414	\$28,091	\$(721)	\$(961)	\$(969)	\$(978)
Labour sub-total	\$384,911	\$(103,433)	\$480,709	\$47,824	\$512,868	\$435,674	\$195,855	\$140,310	\$5,640
Benefits	\$225,216	\$6,308	\$(304,935)	\$(96,565)	\$67,486	\$71,950	\$35,992	\$41,257	\$25,955
Subcontractors	\$8,925	\$(29,049)	\$23,961	\$(147,047)	\$165,037	\$1,803	\$33,965	\$34,644	\$35,337
Legal & Consulting Fees	\$(216,255)	\$15,783	\$43,534	\$(172,406)	\$115,844	\$(13,994)	\$6,296	\$6,426	\$6,558
Provision for Doubtful Accounts	\$108,860	\$(140,092)	\$124,950	\$9,339	\$9,248	\$9,433	\$10,103	\$10,315	\$10,531
Capital Taxes	\$(61,959)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Materials (including Inventory Writedowns)	\$(7,328)	\$144,270	\$(129,507)	\$13,035	\$3,614	\$3,686	\$3,948	\$4,031	\$4,115
Insurance	\$20,701	\$(79,493)	\$57,004	\$6,029	\$(28,509)	\$5,920	\$6,341	\$6,474	\$6,610
Allocations to Capital and Jobbing Work	\$324,165	\$13,690	\$(319,978)	\$200,872	\$(145,612)	\$(119,064)	\$(96,180)	\$(98,344)	\$(100,557)
Regulatory Fees		\$10,361	\$(906)	\$15,595	\$97,225	\$3,783	\$4,052	\$4,137	\$4,224
IT Licensing costs (mainly Smart Meters)		\$(30,802)	\$24,013	\$46,356	\$3,767	\$3,842	\$4,115	\$4,202	\$4,290
SR&ED ITC's credited to OM&A			\$(111,362)	\$66,362					
Smart Meter OM&A Variance Ac Release	\$392,825								
Other	\$29,739	\$(47,312)	\$82,161	\$91,985	\$53,263	\$65,467	\$67,998	\$69,667	\$70,981
Closing Balance	\$10,322,790	\$11,240,450	\$11,210,095	\$11,291,473	\$12,145,702	\$12,614,203	\$12,886,688	\$13,109,806	\$13,183,490

#### ANALYSIS OF PRINCIPAL COST DRIVERS

Each of the principal cost drivers are further analyzed below, with material variances that are outliers to the historical trend explained.

#### Labour

Total labour cost is increasing at a compound annual growth rate of 3.4% (5.8 FTE's) to the 2019 Test Year versus 2012 Board-Approved amounts, and at a compound annual growth rate of 3.6% (7.0 FTE's) to the 2019 Test Year versus 2012 Actual. This compares to projected customer growth of 16.4% and 18.6% versus 2012 Board-Approved and 2012 Actual amounts respectively.

An estimated 20 employees will be eligible to retire in the years 2014 to 2018, with necessary overlap periods being required for approximately 8 of these positions. This succession planning will temporarily add costs in the years 2015 to 2018 before being fully eliminated in 2019.

#### Benefits

Projected post-retirement benefits costs and projections used in the Application were provided to OPUCN by its independent advisor and actuary, K-W Actuarial Services Inc., a firm of consultants and actuaries with considerable experience in the field of pensions and benefits. This application includes significantly reduced annual costs related to the post-retirement benefits, driven by the latest (2013) actuarial valuation. The projected reduction in 2015 is approximately \$400,000 compared to 2012 Actual, with just inflationary increases projected thereafter. The 2013 and 2012 reports from K-W Actuarial Services Inc. are provided in Appendix 4-1 of this Exhibit. Changes to other benefits offered by OPUCN to its employees are limited to inflation and increases in the number of FTE's. OPUCN has commissioned K-W Actuarial Services Inc. to provide an actuarial report updated to December 31, 2014 and plans to update its forecast post-retirement benefit costs for any material differences resulting from the update.

#### **Subcontractors**

Subcontractors provide a number of critical services to OPUCN and its customers and include tree trimming; customer billing; utility locates; building and equipment maintenance; metering services; IT support; and security services.

In 2013, OPUCN undertook a review of its security systems and services which determined that a system with an increased number of 24-hour monitored video cameras along with improvements to building access systems would offer more effective security to its buildings, equipment and employees. A one-time capital investment of \$55,000 was made in 2013 which is projected to yield annual operating savings of \$120,000 effective from July 2013. This saving accounts for the majority of the year over year reduction seen in 2014.

OPUCN has made, and is planning to continue making investments in various IT systems related to grid modernization to enhance value provided to the customer including enhanced system reliability and resilience. This will involve distribution automation, intelligent devices and software applications to mitigate customer impact to system outages, reduce system restoration time and improve customer communication. The additional resources required to maintain these systems will be provided primarily by contractors, driving the increased subcontractor expenses in 2015 and 2016.

#### Allocations to Capital and Jobbing Work

OPUCN's last rebasing in 2012 (EB-2011-0073) was completed based on MIFRS and included appropriate changes to its capitalization policy to exclude from capital any costs which are not directly attributable to an item of PP&E, as part of the transition to MIFRS. The increase in 2012 relative to 2011 is primarily driven by this adjustment.

The change in 2013 allocations, an increase of \$319,978, is primarily driven by an adjustment to vehicle allocation rates resulting from the major refresh of the fleet that occurred in late 2011 and throughout 2012, along with an increase in the proportion of design work related to capital projects.

The forecast reduction in allocations in 2014 is driven by a reduction in the labour burden rate caused by the reduction in benefit costs resulting from the significantly reduced annual costs related to post-retirement benefits, as noted in the benefits section above.

Changes to allocations in the years 2015 to 2019 are driven by inflation and changes in the number of FTE's.

#### RECOVERABLE OM&A COSTS PER CUSTOMER AND PER FTE

Table 4-12 summarizes OM&A costs year-over-year on a per-customer and per-FTE basis.

TABLE 4-12 – CHAPTER 2 FILING REQUIREMENT APPENDIX 2-L - OM&A PER CUSTOMER AND
PER FTE 2011 – 2019

	2011 Actuals	Year - 2012- Board Approved	Last Rebasing Year - 2012 - Actual	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Number of Customers	53,071	54,410	53,395	53,925	54,613	56,251	57,939	59,677	61,467	63,311
Total Recoverable OM&A										
from Appendix 2-JB	\$10,322,790	\$11,480,220	\$11,240,450	\$11,210,095	\$11,291,473	\$12,145,702	\$12,614,203	\$12,886,688	\$13,109,806	\$13,183,490
OM&A cost per customer	\$195	\$211	\$211	\$208	\$207	\$216	\$218	\$216	\$213	\$208
Number of FTEs	69	75	74	74	75	80	85	84	83	81
Customers/FTEs	769	725	723	730	729	700	685	707	739	784
OM&A Cost per FTE	\$149,633	\$153,070	\$152,241	\$151,659	\$150,704	\$151,097	\$149,192	\$152,716	\$157,696	\$163,162

Total OM&A per customer in 2012 was \$211, for both Board-Approved and Actual. This metric is projected to increase in the years 2015 to 2018 due mainly to costs associated with succession planning mentioned above, before settling back to a level marginally below the Board-Approved and actual levels for 2012. When inflation is factored in (using 2.0% as an annual average), the OM&A per customer is projected to drop significantly over the period to 2019. Table 4-13 below illustrates this in greater detail.

	Last Rebasing Year - 2012- Board Approved	Last Rebasing Year - 2012 - Actual	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Number of Customers	54,410	53,395	53,925	54,613	56,251	57,939	59,677	61,467	63,311
Total Recoverable OM&A	\$11,480,220	\$11,240,450	\$11,210,095	\$11,291,473	\$12,145,702	\$12,614,203	\$12,886,688	\$13,109,806	\$13,183,490
OM&A cost per customer	\$211	\$211	\$208	\$207	\$216	\$218	\$216	\$213	\$208
OM&A Adjusted for Inflation 2.0%	\$11,480,220	\$11,240,450	\$10,990,289	\$10,853,011	\$11,445,166	\$11,653,574	\$11,671,870	\$11,641,132	\$11,477,021
Inflation Adj. OM&A cost/customer	\$211	\$211	\$204	\$199	\$203	\$201	\$196	\$189	\$181

 TABLE 4-13 – INFLATION ADJUSTED OM&A PER CUSTOMER 2012 – 2019

The trend in the number of customers per FTE, as illustrated by Table 4-12, is positive. The projected number of customers per FTE in 2019 forecasts an increase of 8.0% and 8.3% compared with 2012 Board-Approved and Actuals respectively.

The OM&A cost per FTE is projected to increase by \$10,092 in 2019 compared with the 2012 Board-Approved amount, and by \$10,921 in 2019 compared with 2012 Actual. When inflation is factored in (using 2.0% as an annual average), the OM&A per FTE is projected to drop significantly over the period to 2019. Table 4-14 below illustrates this in greater detail.

	Last Rebasing Year - 2012- Board Approved	Last Rebasing Year - 2012 - Actual	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Total Recoverable OM&A	\$11,480,220	\$11,240,450	\$11,210,095	\$11,291,473	\$12,145,702	\$12,614,203	\$12,886,688	\$13,109,806	\$13,183,490
Number of FTEs	75	74	74	75	80	85	84	83	81
OM&A cost per FTE	\$153,070	\$152,241	\$151,659	\$150,704	\$151,097	\$149,192	\$152,716	\$157,696	\$163,162
OM&A Adjusted for Inflation 2.0%	\$11,480,220	\$11,240,450	\$10,990,289	\$10,853,011	\$11,445,166	\$11,653,574	\$11,671,870	\$11,641,132	\$11,477,021
Inflation Adjusted OM&A cost/FTE	\$153,070	\$152,241	\$148,685	\$144,852	\$142,382	\$137,831	\$138,320	\$140,030	\$142,042

TABLE 4-14 – INFLATION ADJUSTED OM&A PER FTE 2012 – 2019

# INCREASE IN OM&A EXPENSE IN RELATION TO A DECREASE IN CAPITALIZED OVERHEAD

OPUCN's last rebasing in 2012 (EB-2011-0073) was completed based on MIFRS and included appropriate changes to its capitalization policy to exclude from capital any costs which are not directly attributable to an item of PP&E, as part of the transition to MIFRS. This application does not include any further changes in OM&A expense related to capitalization policies.

#### PROGRAM DELIVERY COSTS WITH VARIANCE ANALYSIS

#### **Overview of Program Delivery Costs**

This section provides a variance analysis of OPUCN's OM&A cost by major function, consistent with section 2.7.3 of the Board's Chapter 2 Filing Requirements. Although OPUCN's internal systems are set up to capture OM&A costs primarily by cost centre or function, OPUCN has made best efforts to identify OM&A costs by program, and, if not, by major functions.

Table 4-15 below (Appendix 2-JC) summarizes OPUCN's OM&A costs by major function and is provided in this Exhibit for the 2011 Actual year through the 2019 Test Year. Table 4-16 utilises the data from Appendix 2-JC to illustrate the compound annual growth rates by program, with 2012 Board-Approved, 2012 Actual and 2013 Actual all compared to 2015 and 2019 Test Years.

# TABLE 4-15 – CHAPTER 2 FILING REQUIREMENT APPENDIX 2-JC - OM&A COST BY PROGRAM 2011-2019

Bressen	2011 Actuals	Last Rebasing Year (2012 Board- Approved)	Last Rebasing Year (2012 Actuals)	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year		Variance (2015 Test Year vs. 2013 Actuals)	Variance (2015 Test Year vs. Last Rebasing Year (2012 Board- Approved)	Variance (2016 Test Year vs. 2015 Test Year)	Variance (2017 Test Year vs. 2016 Test Year)	Variance (2018 Test Year vs. 2017 Test Year)	Variance (2019 Test Year vs. 2018 Test Year)
Programs Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Operations	CGAAP	WIIFKS	WIIFKS	WIIFKS	WIIFKS	WIIFKS	WIIFKS	WIIFKS	MIFKS	MIFKS	MIFRO	WIFRS	WIFRS	MILLES	WIIFKS	WIFRS
Operations Operations Management	611.614	726.605	667.244	699.535	681.802	811.768	827.988	844,605	861,555	878.846	112.233	85.163	16.220	16,617	16.951	17.291
	142.441	296,209	262,464	274.202	258,435	314,794	404.242	412,397	420.717	429,205	40,592	18,585	89,448	8,156	8,320	8.488
Technical Design	569,011	290,209	741,561	777,664	797,375	910,923	979.248	1,025,563	1,015,533	429,205 993,836	133,259	246,465	68,325	46,315	(10.030)	(21,697)
Grid Construction & Maintenance	2.990.755	3.406.588	3.296.708	3.560.112	3.543.770	3.674.622	3.830.004	3.970.145	4.044.708	3,978,482	133,239	240,405	155.381	140,141	74,563	(66,227)
Underground Utility Locates (subcontracted)	2,990,755	269.000	269,493	384.057	288.762	297.156	303.099	309.161	315.344	321.651	(86,901)	208,034	5,943	6.062	6,183	6.307
Tree Trimming (subcontracted)	143,889	147,000	209,493	146,936	136,311	135,732	138,447	141,216	144,040	146,921	(11.204)	(11.268)	2,715	2,769	2.824	2.881
Thee miniming (subcontracted)	143,009	147,000	147,300	140,930	130,311	155,752	130,447	141,210	144,040	140,921	(11,204)	(11,200)	2,715	2,709	2,024	2,001
Sub-Total Operations	4.716.131	5.509.860	5.384.829	5.842.506	5.706.455	6.144.996	6.483.028	6.703.087	6.801.898	6.748.942	302.490	635.136	338.032	220.059	98.812	(52,956)
	4,710,131	3,309,000	3,304,029	3,042,300	3,700,433	0, 144, 550	0,403,020	0,703,007	0,001,090	0,740,942	302,490	055,150	330,032	220,039	90,012	(32,930)
Metering																
Meter Reading & Data Management	395.434	366,214	457,777	364.839	377.348	411.386	420,129	429.086	438.234	447.578	46.547	45,173	8,743	8.957	9,148	9.344
Meter Operations (installs etc)	283.364	287,150	265,605	275.215	281,280	331,140	387,408	396.082	404,950	414.016	55,925	43,990	56,268	8,674	8,868	9,067
Smart Meter Program Incremetal Costs	546.653	70.000	54,967	68,938	87.251	88,996	90,776	92,683	94.629	96.616	20.059	18,996	1,780	1,906	1,946	1.987
	0.10,000	10,000	01,001	00,000	01,201	00,000	00,110	02,000	01,020	00,010	20,000	10,000	1,100	1,000	1,010	1,001
Sub-Total Metering	1.225.451	723.363	778,350	708,992	745,880	831,523	898.313	917,850	937,813	958.211	122.531	108,159	66,791	19,537	19.963	20,398
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Facilities																
Facilities Management	236.839	278.624	282.836	259,525	261,488	269,602	275.379	281,418	287,590	293.896	10,077	(9.023)	5,778	6,039	6,171	6,307
Rent - Property	264.000	271,920	286,544	292.263	297,457	303,406	309,474	315,973	322,608	329,383	11,142	31,486	6,068	6,499	6.635	6,775
Vehicle Expenses	341.876	378,340	349,104	335,749	342,464	349,314	356,300	363,782	371,422	379.221	13,564	(29,026)	6,986	7,482	7.639	7.800
Utility Costs	101,544	100,297	94,920	106,833	108,970	111,149	113,372	115,753	118,184	120,666	4,316	10,852	2.223	2,381	2,431	2,482
Maintenance, Janitorial & Security	286,785	262,786	294,518	249,465	262,997	258.021	180.095	183,697	187,370	191,118	8,556	(4,765)	(77,926)	3,602	3.674	3,747
Sub-Total Facilities	1.231.044	1.291.967	1.307.923	1,243,835	1.273.375	1.291.491	1.234.620	1,260,623	1,287,174	1,314,284	47.656	(476)	(56.871)	26.003	26.551	27,111
Customer Service																
Customer Service Management	217,619	257,474	231,201	255,553	252,150	257,189	262,328	267,607	272,991	278,485	1,635	(286)	5,139	5,279	5,385	5,493
Customer Service General	896,981	1,049,932	980,612	1,002,855	1,084,092	1,103,591	1,200,521	1,227,189	1,254,452	1,282,320	100,736	53,660	96,929	26,669	27,262	27,869
Customer Billing	434,108	450,114	434,223	476,054	476,886	462,679	471,933	481,371	490,999	500,819	(13,375)	12,565	9,254	9,439	9,627	9,820
Bad Debts	549,996	416,500	278,111	406,996	418,000	426,360	434,887	444,020	453,344	462,864	19,364	9,860	8,527	9,133	9,324	9,520
Postage and Printing (Billing)	418,868	440,167	445,248	438,187	453,731	467,636	484,722	502,464	520,888	540,021	29,450	27,469	17,086	17,742	18,424	19,133
Collections Reconnects & Notice Serving	58,335	56,362	69,640	71,688	82,514	84,164	85,848	87,565	89,316	91,102	12,476	27,803	1,683	1,717	1,751	1,786
LEAP Program	26,603	0	24,052	24,312	25,041	27,460	30,064	31,293	32,479	33,219	3,148	27,460	2,605	1,228	1,186	740
Sub-Total Customer Service	2,602,509	2,670,549	2,463,086	2,675,645	2,792,415	2,829,080	2,970,303	3,041,509	3,114,468	3,188,830	153,434	158,531	141,223	71,206	72,960	74,361

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Programs	2011 Actuals	Last Rebasing Year (2012 Board- Approved)	Last Rebasing Year (2012 Actuals)	2013 Actuals	2014 Bridge Year	2015 Test Year		2017 Test Year	2018 Test Year		Variance (2015 Test Year vs. 2013 Actuals)	Variance (2015 Test Year vs. Last Rebasing Year (2012 Board- Approved)	Variance (2016 Test	· · · · ·		Variance (2019 Test Year vs. 2018 Test Year)
General & Administrative																
Finance & Regulatory Affairs	774,798	762,953	768,604	806,626	813,370	842,384	859,819	877,756	896,069	914,765	35,759	79,431	17,435	17,937	18,313	18,696
IT Operations	214,267	281,680	259,244	285,434	287,958	401,709	409,743	418,107	426,642	435,351	116,275	120,029	8,034	8,364	8,535	8,709
Community Relations	94,831	102,082	97,030	101,004	104,699	158,776	212,929	217,216	221,589	226,050	57,772	56,694	54,152	4,287	4,373	4,461
Employee Health & Safety	169,235	214,246	224,575	224,986	205,838	230,618	235,115	239,782	244,545	249,405	5,632	16,372	4,497	4,667	4,763	4,860
Human Resources	165,420	159,882	186,796	177,188	182,352	197,878	181,450	185,150	188,926	192,779	20,690	37,996	(16,428)	3,700	3,776	3,853
Stores	266,079	294,769	362,775	365,697	382,741	386,420	364,812	302,108	308,757	315,552	20,723	91,651	(21,608)	(62,704)	6,649	6,796
Sub-Total General & Administrative	1,684,630	1,815,613	1,899,023	1,960,935	1,976,958	2,217,786	2,263,868	2,240,119	2,286,527	2,333,902	256,851	402,173	46,082	(23,749)	46,408	47,375
Corporate																
Management Fees	480,000	480,000	480,000	480,000	480,000	489,600	499,392	509,879	520,587	531,519	9,600	9,600	9,792	10,487	10,707	10,932
Post Retirement Benefits expense	1,062,095	1,184,205	1,135,166	724,420	598,457	610,426	622,635	635,710	649,060	662,690	(113,994)	(573,779)	12,209	13,075	13,350	13,630
Insurance - General & Property	263,437	334,807	259,961	316,301	322,286	293,731	299,606	305,898	312,322	318,880	(22,569)	(41,075)	5,875	6,292	6,424	6,559
Regulatory Costs	212,191	246,613	236,253	235,346	250,941	348,166	351,949	356,001	360,138	364,362	112,820	101,553	3,783	4,052	4,137	4,224
Audit, Legal & Consulting Fees	175,207	290,337	276,360	340,756	175,610	258,175	263,339	268,764	274,300	279,951	(82,581)	(32, 162)	5,164	5,425	5,536	5,651
Other Corporate Costs and Adjustments	428,431	477,798	550,746	529,598	613,417	617,554	629,872	642,757	655,906	669,325	87,956	139,755	12,318	12,885	13,149	13,419
											0	0	0	0	0	0
Sub-Total Corporate	2,621,361	3,013,761	2,938,484	2,626,422	2,440,712	2,617,653	2,666,794	2,719,009	2,772,313	2,826,727	(8,768)	(396,108)	49,140	52,215	53,304	54,415
Allocations & Recoveries	1	1				1	1		1	1						
	(4.005.070)	(0.400.400)	(2.052.444)	(4.054.500)	(4 747 000)	(4.750.404)	(4.004.050)	(4.007.500)	(4.044.057)	(4.000.477)	000 470	004.000	(00.700)	(45.700)	(40, 707)	(47.040)
Grid Construction & Maintenance Technical Design & Engineering	(1,995,679)	(2,133,123) (337,056)	(2,052,444)	(1,954,593) (408,517)	(1,717,928) (415.666)	(1,752,121) (472,940)	(1,821,852) (483,581)	(1,867,590) (494,462)	(1,914,357) (505,587)	(1,962,177) (516,963)	202,473	381,003 (135,885)	(69,732) (10,641)	(45,738) (10,881)	(46,767) (11,125)	(47,819) (11,376)
	(470,880)	(139,050)	1	1		1 1 1	1	(494,462)	1	1	V / //				X 7 - 7	
Meter Operations (installs etc) Stores Recoveries	(183,943) (593,426)	(139,050) (259,207)	(157,168) (206,187)	(181,412) (260,543)	(184,587) (265,102)	(212,817) (269,742)	(217,606) (275,811)	(222,502) (282,017)	(227,508) (288,362)	(232,627) (294,850)	(31,405) (9,199)	(73,767) (10,535)	(4,788) (6,069)	(4,896) (6,206)	(5,006) (6,345)	(5,119)
Vehicle Recoveries	(359,426)	(259,207)	(206, 187)	(260,543)	(205, 102)	(209,742)	(822.043)	(840,539)	(200,302)	(878,789)	(9, 199) (27,417)	(10,535) (278,954)	(18,089)	(0,206)	(0,345) (18,912)	(0,466)
		1	N		(190,127) (193,078)	(803,954) (196,457)	Se 12 21		1					X - 7 7	1 1 1 1	
OPA CDM Programs	(167,526)	(164,800)	(178,873)	(189,757)			(200,877)	(205,397) (248,009)	(210,018)	(214,743)	(6,700)	(31,656)	(4,420)	(4,520)	(4,621)	(4,725)
Other Allocated Costs (inc. Shared Services)	(131,878)	(136,007)	(220,167)	(229,171)	(233,171)	(237,241)	(242,565)	(248,009)	(253,576)	(259,267)	(8,070)	(101,234)	(5,324)	(5,444)	(5,567)	(5,692)
Sub-Total Allocations & Recoveries	(3,902,774)	(3,694,243)	(3,680,553)	(4,000,531)	(3,799,659)	(3,945,272)	(4,064,335)	(4,160,516)	(4,258,860)	(4,359,417)	55,260	(251,028)	(119,064)	(96,180)	(98,344)	(100,557)
Property Taxes	144,439	149,350	149,309	152,292	155,338	158,445	161,613	165,007	168,473	172,010	6,153	9,095	3,169	3,394	3,465	3,538
Total	10,322,790	11,480,220	11,240,450	11,210,095	11,291,473	12,145,702	12,614,203	12,886,688	13,109,806	13,183,490	935,607	665,482	468,502	272,484	223,118	73,684
% Change											8.35%	5.80%	3.86%	2.16%	1.73%	0.56%

#### TABLE 4-15 – CHAPTER 2 FILING REQUIREMENT APPENDIX 2-JC - OM&A COST BY PROGRAM 2011-2019 (CONTINUED)

8.35% 5.80% 3.86% 2.16% 1.73% 0.56% Table 4-16 illustrates the compound annual growth rates by program, with 2012 Board-Approved, 2012 Actual and 2013 Actual all compared to 2015 and 2019 Test Years.

Programs	CAGR 2012 Approved to 2015 Test Year	2015 Test	Actuals to 2015 Test	Approved	2019 Test	Actuals to
Operations						
Operations Management	3.76%	6.75%	7.72%	2.75%	4.01%	3.88%
Engineering	2.05%	6.25%	7.15%	5.44%	7.28%	7.75%
Technical Design	11.09%	7.10%	8.23%	5.92%	4.27%	4.17%
Grid Construction & Maintenance	2.56%	3.68%	1.60%	2.24%	2.72%	1.87%
Underground Utility Locates (subcontracted)	3.37%	3.31%	(12.04)%	2.59%	2.56%	(2.91)%
Tree Trimming (subcontracted)	(2.62)%	(2.70)%	(3.89)%	(0.01)%	(0.04)%	(0.00)%
Sub-Total Operations	3.70%	4.50%	2.56%	2.94%	3.28%	2.43%
Metering						
Meter Reading & Data Management	3.95%	(3.50)%	6.19%	2.91%	(0.32)%	3.47%
Meter Operations (installs etc)	4.87%	7.63%	9.69%	5.37%	6.55%	7.04%
Smart Meter Program Incremetal Costs	8.33%	17.42%	13.62%	4.71%	8.39%	5.79%
Sub-Total Metering	4.75%	2.23%	8.30%	4.10%	3.01%	5.15%
Facilities						
Facilities Management	(1.09)%	(1.58)%	1.92%	0.77%	0.55%	2.09%
Rent - Property	3.72%	1.92%	1.89%	2.78%	2.01%	2.01%
Vehicle Expenses	(2.63)%	0.02%	2.00%	0.03%	1.19%	2.05%
Utility Costs	3.48%	5.40%	2.00%	2.68%	3.49%	2.05%
Maintenance, Janitorial & Security	(0.61)%	(4.31)%	1.70%	(4.45)%	(5.99)%	(4.34)%
Sub-Total Facilities	(0.01)%	(0.42)%	1.90%	0.24%	0.07%	0.92%
Customer Service						
Customer Service Management	(0.04)%	3.61%	0.32%	1.13%	2.69%	1.44%
Customer Service General	1.68%	4.02%	4.90%	2.90%		4.18%
Customer Billing	0.92%	2.14%	(1.41)%	1.54%	2.06%	0.85%
Bad Debts	0.78%	15.31%	2.35%	1.52%	7.55%	2.17%
Postage and Printing (Billing)	2.04%	1.65%	3.31%	2.96%	2.80%	3.54%
Collections Reconnects & Notice Serving	14.30%	6.52%	8.35%	7.10%	3.91%	4.08%
LEAP Program	0.00%	4.52%		0.00%		5.34%
Sub-Total Customer Service	1.94%	4.73%	2.83%	2.57%	3.76%	2.97%

TABLE 4-16 - COMPOUND ANNUAL GROWTH RATES BY PROGRAM

Programs (continued)	CAGR 2012 Approved to 2015 Test Year	Actuals to 2015 Test	Actuals to	Approved	2019 Test	Actuals to 2019 Test
General & Administrative						
Finance & Regulatory Affairs	3.36%	3.10%	2.19%	2.63%	2.52%	2.12%
IT Operations	12.56%	15.72%	18.63%	6.42%	7.69%	7.29%
Community Relations	15.86%	17.84%	25.38%	12.03%	12.84%	14.37%
Employee Health & Safety	2.49%	0.89%	1.24%	2.19%	1.51%	1.73%
Human Resources	7.37%	1.94%	5.68%	2.71%	0.45%	1.42%
Stores	9.44%	2.13%	2.79%	0.98%	(1.97)%	(2.43)%
Sub-Total General & Administrative	6.90%	5.31%	6.35%	3.65%	2.99%	2.94%
Corporate						
Management Fees	0.66%	0.66%	1.47%	1.47%	1.00%	1.71%
Post Retirement Benefits expense	(19.82)%	(18.68)%	(7.96)%	(7.40)%	(8.20)%	(1.47)%
Insurance - General & Property	(4.27)%	4.16%	(0.69)%	2.96%	(3.63)%	0.14%
Regulatory Costs	12.18%	13.80%	5.73%	6.38%	21.63%	7.56%
Audit, Legal & Consulting Fees	(3.84)%	(2.24)%	(0.52)%	0.18%	(12.96)%	(3.22)%
Other Corporate Costs and Adjustments	8.93%	3.89%	4.93%	2.82%	7.99%	3.98%
Sub-Total Corporate	(4.59)%	(3.78)%	(0.91)%	(0.55)%	(0.17)%	1.23%
Allocations & Recoveries						
Grid Construction & Maintenance	(6.35)%	(5.14)%	(1.19)%	(0.64)%	(5.32)%	0.06%
Technical Design & Engineering	11.95%	11.96%	6.30%	6.30%	7.60%	4.00%
Meter Operations (installs etc)	15.24%	10.63%	7.63%	5.76%	8.31%	4.23%
Stores Recoveries	1.34%	9.37%	1.86%	5.24%	1.75%	2.08%
Vehicle Recoveries	15.26%	14.99%	7.64%	7.53%	1.75%	2.08%
OPA CDM Programs	6.03%	3.17%	3.85%	2.65%	1.75%	2.08%
Other Allocated Costs (inc. Shared Services)	20.38%	2.52%	9.65%	2.36%	1.75%	2.08%
Sub-Total Allocations & Recoveries	2.22%	2.34%	2.39%	2.45%	(0.69)%	1.44%
Property Taxes	1.99%	2.00%	2.00%	2.04%	2.04%	2.05%
Total	1.90%	2.62%	4.09%	2.00%	2.30%	2.74%

# TABLE 4-16 - COMPOUND ANNUAL GROWTH RATES BY PROGRAM (Continued)

#### **PROGRAM AND FUNCTION OVERVIEW**

OPUCN has provided Appendix 2-JC OM&A Programs in this Exhibit, on the basis of major function/department, in accordance with section 2.7.3 "Program Delivery Costs with Variance Analysis" of the Board's Chapter 2 Filing Requirements. This section provides a brief overview of OPUCN's major programs and functions along with additional background underlying the costs.

#### **Operations Management**

Operations Management is responsible for management and supervision of the grid construction & maintenance, technical design, and metering activities. The current number of FTE's is 5.4, increasing to 6.5 in 2015 with the addition of a supervisor for the technical design department in late 2014. This additional headcount is required to handle the increased volume of design work driven by projected customer and city growth in Oshawa. The resulting compound annual growth is 2.75% from 2012 Board-Approved to 2019 Test Year, 4.01% from 2012 Actual to 2019 Test Year, and 3.88% from 2013 Actual to 2019 Test Year.

#### Engineering

The engineering department is responsible for asset management, distribution system planning, operating standards, smart grid and green energy initiatives, technical support to the design technicians for capital projects, and provision of distribution system asset information to many departments within OPUCN.

The annual cost of the Engineering department approved in the last rebasing application (2012) was \$296,209 which included two FTE's. This application proposes the addition of one FTE in 2016, with, after approximately seven months overlap, an offsetting reduction of one FTE in the stores group. The objective is to hire in Engineering a Manager Asset Management who will also be responsible for procurement and inventory management. As a result, Engineering department costs are projected to see a compound annual growth of 5.44% from 2012 Board-Approved to

2019 Test Year, 7.28% from 2012 Actual to 2019 Test Year, and 7.75% from 2013 Actual to 2019 Test Year.

#### **Technical Design**

The Technical Design department is responsible for designs and estimates related to capital projects, customer service connections and subdivisions. As noted previously, OPUCN is projected to experience significant customer and city growth over the period covered by this application. This growth results in a significant increase in the number of services, plant relocation work, subdivisions and capital rebuild work and as projected by the City, this volume is expected to accelerate especially with the opening of the Hwy 407 extension. The current number of FTE's is 7.4, and is projected to increase to 8.4 with the addition of additional resources to better handle the increased workload. As a result, Technical Design department costs are projected to see a compound annual growth of 5.92% from 2012 Board-Approved to 2019 Test Year, 4.27% from 2012 Actual to 2019 Test Year, and 4.17% from 2013 Actual to 2019 Test Year. The cost increase is partially offset by increased allocations to capital work.

#### **Grid Construction & Maintenance**

The Grid Construction & Maintenance department is responsible for the construction of the capital expansion and enhancement projects, and preventative maintenance programs. They respond to emergency power outages and unplanned events and repair or replace failed or defective equipment to restore services. They also assist with the development, training and enforcement of safe work procedures, through researching various guides and regulations, including: the *Occupational Health & Safety Act* and *Regulations for Construction Projects; Electrical and Utilities Safety Association Rule Book* and *Safe Practice Guides; Utility Work Protection Code; Ministry of Transportation Act* regarding safe work area protection and material transporting; and, Workplace *Hazardous Materials Information System* ("WHMIS").

The Grid Construction & Maintenance workforce of 26 FTE's at September 2014 has 9 men with continuous service ranging from 25 to 32 years, of whom at least 6 are expected to retire in the next 4 years. A succession plan is in place for the period to

ensure replacements are in place, in advance where apprentices are to be hired, early enough to avoid any decline in operational capability and will result in some overlap to facilitate training. Additionally, OPUCN plans to increase the ongoing 'normalised' headcount by 1 to 27 FTE's to reflect the growth during the period 2015 to 2019. Table 4-17 below illustrates the FTE over the period from 2012 Board-Approved to the 2019 Test Year.

	2012	2012	2013	2014	2015	2016	2017	2018	2019
	Approved	Actual	Actual	Bridge	Test	Test	Test	Test	Test
Opening FTE's	26.0	24.3	25.8	26.0	26.7	27.8	29.1	29.6	28.8
Retirements	0.0	0.0	0.0	0.0	(1.3)	(1.7)	(0.5)	(0.8)	(1.8)
Replacements	0.0	0.0	0.0	0.7	1.3	3.0	1.0	0.0	0.0
New Hires	0.0	1.6	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Overlaps			0.2						
Closing FTE's	26.0	25.8	26.0	26.7	27.8	29.1	29.6	28.8	27.0

TABLE 4-17 GRID CONSTRUCTION & MAINTENANCE FTE'S

The cost increase is partially offset by increased allocations to capital work. The resulting compound annual growth is 2.24% from 2012 Board-Approved to 2019 Test Year, 2.72% from 2012 Actual to 2019 Test Year, and 1.87% from 2013 Actual to 2019 Test Year. The 2013 comparison is lower due to non-recurring ice storm costs included in 2013.

#### **Underground Utility Locates**

As part of its' ongoing commitment to operational efficiency, OPUCN has put a lot of effort into enhancing its' Geographic Information System (GIS) system, in particular the ability of the GIS system to deliver underground utility locating services for excavating. The improved GIS system allows OPUCN to clear a higher percentage of "dig requests" remotely using Ontario One-Call than previously, resulting in lower costs per request. The cost of remotely clearing a dig request is on average between 10 to 12 times less than dispatching a resource to the site to do a visual or physical check. 2014 represents the first year in which this enhanced capability will be taken advantage of, resulting in a projected annual saving of \$88,000, despite a similar number of dig requests.

Compared to the years 2010, 2011 and 2012, which had on average 17% less requests, costs in 2014 and through the forecast period of 2015-2019 are estimated to be only marginally higher before inflation.

The resulting compound annual growth is 2.59% from 2012 Board-Approved to 2019 Test Year, 2.56% from 2012 Actual to 2019 Test Year, and negative 2.91% from 2013 Actual to 2019 Test Year. The 2013 comparison is lower due to increased activity in 2013 compared to 2012.

#### Tree Trimming

Tree trimming has been carried out on a four-year cycle in the past, but to help reduce the frequency and cause of outages resulting from tree contact, OPUCN's approach to tree trimming moved towards an improved, less costly and more efficient three-year cycle starting in 2011.

This has enabled OPUCN to reduce annual costs in 2014 by 7.3% compared to 2012 Board-Approved and by 7.5% compared to 2012 Actual. The resulting compound annual growth is 0.01% from 2012 Board-Approved to 2019 Test Year, 0.04% from 2012 Actual to 2019 Test Year, and 0.00% from 2013 Actual to 2019 Test Year.

#### Metering

The OPUCN metering department is responsible for the installation, testing, and commissioning of new and existing simple and complex metering installations, along with administration and management of the Advanced Metering Infrastructure ("AMI") system and other meter data related systems.

Regulatory changes and developing technologies which are expanding meter capabilities and utilisation, along with growth in Oshawa, has led to a significant increase in the volume of work required of OPUCN meter technicians. OPUCN proposes to add 1 FTE to enable it to meet its regulatory obligations and customer service expectations. The meter reading operation has also seen growing cost pressures since the last approved rate application in 2012, with increased software

licensing and support costs associated with OPUCN's Operational Data Store ("ODS") system and increased settlement costs driven by the FIT/MicroFIT programs. These factors are driving the compound annual growth in Metering department costs of 4.10% from 2012 Board-Approved to 2019 Test Year, 3.01% from 2012 Actual to 2019 Test Year, and 5.15% from 2013 Actual to 2019 Test Year.

## Facilities

The facilities function is responsible for general maintenance and security of OPUCN facilities and the management of the OPUCN fleet of vehicles. OPUCN's main facility, rented from the City of Oshawa, is located in downtown Oshawa and includes office space for all employees, a stores/warehouse area, along with a garage and parking lot for all company vehicles.

The OPUCN vehicle fleet was significantly refreshed in 2011 and 2012, with a planned replacement program for remaining aged vehicles scheduled over the course of this rate application period. As a result, forecast maintenance costs are projected to be similar in 2019 to those approved in the 2012 Rate Application for the year 2012 due to a combination of lower repair costs and better fuel economy. The compound annual growth in vehicle expenses is 0.03% from 2012 Board-Approved to 2019 Test Year, 1.19% from 2012 Actual to 2019 Test Year, and 2.05% from 2013 Actual to 2019 Test Year.

In 2013, OPUCN undertook a review of its security systems and services which determined that a system with an increased number of 24-hour monitored video cameras along with improvements to building access systems would offer more effective security to its buildings, equipment and employees. A one-time capital investment of \$55,000 was made in 2013 which is projected to yield annual operating savings of \$120,000 effective from July 2013. This saving is the primary driver behind the Maintenance, Janitorial & Security negative compound annual growth of 4.45% from 2012 Board-Approved to 2019 Test Year, 5.99% from 2012 Actual to 2019 Test Year, and 4.34% from 2013 Actual to 2019 Test Year.

The efficiencies noted above, together with a keen focus on cost control, yield compound annual growth numbers for the facilities function of 0.24% from 2012 Approved to 2019 Test Year, 0.07% from 2012 Actual to 2019 Test Year, and 0.92% from 2013 Actual to 2019 Test Year.

## **Customer Service**

The customer service department is responsible for liaising with OPUCN's approximate 55,000 customers. Activities performed include billing (mostly outsourced to a non-affiliated third party), call centre, collections, and other back office functions.

The number of customers serviced by OPUCN is projected to grow by approximately 9,000 (17%) from actual number at the end of 2013 to 2019. Despite this growth in customer numbers of 17%, total Customer Service costs are projected to see a compound annual growth of just 2.57% from 2012 Board-Approved to 2019 Test Year, 3.76% from 2012 Actual to 2019 Test Year, and 2.97% from 2013 Actual to 2019 Test Year.

OPUCN proposes to add 1 FTE to enable it to meet its regulatory obligations and customer service expectations, resulting in a projected total of 14.0 FTE's compared to current, and 2012 Board-Approved, total of 13.0. This represents an FTE increase of 7.7% and compares to a projected customer increase of 17%. Excluding this additional FTE, total Customer Service costs compound annual growth would be 2.57% from 2012 Approved to 2019 Test Year, 3.76% from 2012 Actual to 2019 Test Year, and 2.97% from 2013 Actual to 2019 Test Year.

In 2012, OPUCN initiated a concerted effort to migrate as many customers as possible to electronic billing with considerable success to date. As of August 2014, 19% of customers receive their bills electronically, compared to below 8% in early 2012. This represents over 6,000 customers since the campaign began, or approximately \$60,000 in cost reductions on an annualised basis. This has, however, only managed to partially offset an average annual growth of 7% in postage costs from 2011 to 2014, with a 15% increase in 2014 alone. With its continued focus on maximising the number of customers receiving bills electronically, OPUCN is nevertheless projecting growth in

customer billing and printing cost growth of 2.96% from 2012 Board-Approved to 2019 Test Year, 2.80% from 2012 Actual to 2019 Test Year, and 3.54% from 2013 Actual to 2019 Test Year.

# **General & Administrative**

The General & Administrative function is made up of the following departments: Finance & Regulatory Affairs; IT Operations; Community Relations; Employee Health & Safety; Human Resources; and Stores. The projected compound annual growth of the General & Administrative function is 3.65% from 2012 Board-Approved to 2019 Test Year, 2.99% from 2012 Actual to 2019 Test Year, and 2.94% from 2013 Actual to 2019 Test Year. This increase is driven primarily by an increase in IT subcontractor costs to help manage the investments in various IT systems related to grid modernization and the addition of subcontracted resources to fulfill additional requirements covering customer engagement, communications and privacy rules, partially offset by the reduction of one stores FTE to be replaced by an engineering position with supervisory duties for stores.

## Corporate

The Corporate functions include holding company management fees, executive compensation, postretirement benefit costs as well as insurance, regulatory, legal, audit, consulting and other costs. These costs in total are projected to grow at a compound annual growth rate of negative 0.91% from 2012 Board-Approved to 2019 Test Year, negative 0.55% from 2012 Actual to 2019 Test Year, and 1.23% from 2013 Actual to 2019 Test Year. The reduction relative to 2012 Board-Approved and actual, and the moderate increase compared to 2013, is driven primarily by a reduction in the post-retirement benefit cost projections driven by the latest (2013) actuarial valuation of the liability.

## **Allocations & Recoveries**

Allocations & recoveries includes the allocation of operations and maintenance labour and vehicle costs to capital and jobbing work where those costs are deemed to be directly attributable, and also allocations to affiliates for services provided and to OPA CDM programs. These costs in total are projected to grow at a compound annual growth rate of 2.39% from 2012 Board-Approved to 2019 Test Year, negative 2.45% from 2012 Actual to 2019 Test Year, and 1.44% from 2013 Actual to 2019 Test Year. Included in these numbers is a reduction in the burden rate driven by the reduction in post-retirement expenses.

# ADDITIONAL DETAILS ON OPERATING COSTS

# **Overview of Additional Details on Operating Costs**

As stated in section 2.7.3 of the Chapter 2 Filing Requirements, the Board requires further detail on the following items:

- Employee Compensation;
- Shared Services and Corporate Cost Allocation;
- Purchase of Non Affiliate Services;
- One-time Costs;
- Regulatory Costs;
- Low Income Energy Assistance Programs ("LEAP"); and
- Charitable and Political Donations.

Further information on each of these categories of costs are detailed on the following pages.

# **EMPLOYEE COMPENSATION**

# Union

OPUCN's unionized employees are represented by the International Brotherhood of Electrical Workers ("IBEW"). The current Collective Bargaining Agreement ("CBA") is effective from March 1 2014 and expires March 2018. The current agreement, which was entered into in 2014, includes annual wage increases of 1.75% per year for 2014 and 2015, and 2.25% per year for 2016 and 2017.

# Executive/Management/Non-Union

Executive and management compensation plan consists of salaries and benefits. Each position within the Company has been placed on a pay scale which is reviewed annually by senior management and the Board of Directors' HR Committee. Each employee's position within their respective range is reviewed based on performance and an inflationary adjustment. Changes to senior management compensation, if any, are approved by the Board of Directors. OPUCN offers an incentive plan to management and non-union staff which ranges between 5% and 10% of base salary, the final payout being made based on performance compared to targets set at the beginning of the year.

# Benefits

A comprehensive and competitive benefits package exists which includes medical insurance, life insurance, long-term disability insurance, vacation, non-pension post-retirement benefits, and matching contributions to the OMERS pension plan.

OPUCN's employees are members of OMERS. Table 4-18 below details the OMERS pension premium information for 2011 Actual through to the 2019 Test Year. OPUCN has forecast future premiums using current rates.

	2011	2012	2012	2013	2014
	Actual	Approved	Actual	Actual	Bridge
OMERS Premiums Paid	449,637	503,465	576,909	674,395	685,838
	2015	2016	2017	2018	2019
	Test	Test	Test	Test	Test
OMERS Premiums Paid	719,850	744,098	753,833	760,900	756,946

### TABLE 4-18 – PENSION PREMIUM INFORMATION

OPUCN pays certain health, dental, and life insurance benefits on behalf of its retired employees. Actual premiums and expenses paid, and expenses accrued for 2011 Actual through to the 2019 Test Year are shown in Table 4-19 below. The 2014 forecast expense is as per the actuarial valuation prepared for 2013. OPUCN has forecast future years expenses based on 2014 estimate plus inflation.

	2011	2012	2012	2013	2014
	Actual	Approved	Actual	Actual	Bridge
Premiums & Expenses Paid	525,204	608,000	519,495	455,470	557,284
Change in Accrued Liability	558,780	512,000	624,300	268,800	0
Total	1,083,985	1,120,000	1,143,795	724,270	557,284
	<u>.</u>				
	2015	2016	2017	2018	2019
	Test	Test	Test	Test	Test
Premiums & Expenses Paid	568,430	579,798	591,904	604,262	616,879
Change in Accrued Liability	0	0	0	0	0
Total	568,430	579,798	591,904	604,262	616,879

TABLE 4-19 – POST-RETIREMENT BENEFIT INFORMATION

OPUCN has commissioned K-W Actuarial Services Inc. to provide an actuarial report updated to December 31, 2014 and plans to update its forecast post-retirement benefit costs for any material differences resulting from the update.

# FTE's and Costs

Information on employee numbers, costs, variances and FTE movements are summarised in the tables below. Employee complement, compensation and benefits are

set out in Table 4-20 (from the Board's Appendix 2-K), year over year changes are illustrated in Table 4-21, while Table 4-22 utilises the data from Appendix 2-K to illustrate the compound annual growth rate, with 2012 Board-Approved, 2012 Actual and 2013 Actual all compared to 2015 and 2019 Test Years.

	2011 Actuals	Last Rebasing Year - 2012 Board Approved	Last Rebasing Year - 2012 Actual	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
Number of Employees (FTEs including Part-Time)										
Management	17	18	18	18	18	19	20	20	20	20
Non-Management	52	57	56	56	57	61	65	64	63	61
Total	69	75	74	74	75	80	85	84	83	81
Total Salary and Wag	Total Salary and Wages including ovetime and incentive pay (\$000's)									
Management	\$1,543	\$1,899	\$1,759	\$1,935	\$1,911	\$2,110	\$2,217	\$2,262	\$2,307	\$2,353
Non-Management	\$4,324	\$4,676	\$4,711	\$5,017	\$5,088	\$5,402	\$5,731	\$5,882	\$5,977	\$5,936
Total	\$5,867	\$6,574	\$6,471	\$6,952	\$6,999	\$7,512	\$7,948	\$8,144	\$8,284	\$8,290
Total Benefits (Curren	nt + Accru	ed) (\$000's	s)							
Management	\$601	\$718	\$710	\$641	\$622	\$652	\$684	\$698	\$713	\$727
Non-Management	\$1,709	\$1,885	\$1,899	\$1,663	\$1,585	\$1,622	\$1,662	\$1,684	\$1,711	\$1,722
Total	\$2,311	\$2,602	\$2,609	\$2,304	\$2,207	\$2,275	\$2,347	\$2,383	\$2,424	\$2,450
Total Compensation	(Salary, W	/ages, & Be	enefits) (\$0	)00's)						
Management	\$2,144	\$2,616	\$2,469	\$2,576	\$2,533	\$2,763	\$2,901	\$2,960	\$3,020	\$3,081
Non-Management	\$6,033	\$6,560	\$6,610	\$6,680	\$6,674	\$7,024	\$7,393	\$7,567	\$7,688	\$7,659
Total	\$8,177	\$9,177	\$9,079	\$9,255	\$9,207	\$9,787	\$10,294	\$10,526	\$10,708	\$10,740

TABLE 4-20 – EMPLOYEE COMPLEMENT AND COMPENSATION (CHAPTER 2 APPENDICES 2-K)

	Last Rebasing Year - 2012 Board Approved	Last Rebasing Year - 2012 Actual	2013 Actuals	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
lumber of Employees (FTEs including Part-Time)									
Management	0.7	0.7	(0.2)	(0.2)	1.8	0.7	0.0	0.0	0.0
Non-Management	5.3	4.2	0.3	1.2	3.7	3.5	(0.2)	(1.3)	(2.3)
Total	6.0	4.8	0.1	1.0	5.5	4.2	(0.2)	(1.3)	(2.3)
Total %	8.7%	7.0%	0.1%	1.4%	7.3%	5.2%	(0.2)%	(1.5)%	(2.8)%
Fotal Salary and Wages including ovetime and incentive pay (\$000's)									
Management	\$356	\$217	\$175	\$(24)	\$199	\$107	\$45	\$45	\$46
Non-Management	\$352	\$387	\$305	\$71	\$314	\$329	\$151	\$95	\$(41)
Total	\$708	\$604	\$481	\$48	\$513	\$436	\$196	\$140	\$6
Total %	12.1%	10.3%	7.4%	0.7%	7.3%	5.8%	2.5%	1.7%	0.1%
Total Benefits (Current	Accrued)	(\$000's)							
Management	\$116	\$108	\$(69)	\$(19)	\$31	\$32	\$14	\$14	\$15
Non-Management	\$175	\$189	\$(236)	\$(77)	\$37	\$40	\$22	\$27	\$11
Total	\$291	\$298	\$(305)	\$(97)	\$67	\$72	\$36	\$41	\$26
Total %	12.6%	12.9%	(11.7)%	(4.2)%	3.1%	3.2%	1.5%	1.7%	1.1%
Total Compensation (Sa	lary, Wage	es, & Bene	efits) (\$00	0's)					
Management	\$472	\$325	\$106	\$(43)	\$230	\$139	\$59	\$60	\$61
Non-Management	\$527	\$577	\$69	\$(6)	\$351	\$369	\$173	\$122	\$(29)
Total	\$999	\$902	\$176	\$(49)	\$580	\$508	\$232	\$182	\$32
Total %	12.2%	11.0%	1.9%	(0.5)%	6.3%	5.2%	2.3%	1.7%	0.3%

# TABLE 4-21 – EMPLOYEE COMPLEMENT AND COMPENSATION YEAR OVER YEAR CHANGE

	CAGR	CAGR	CAGR	CAGR	CAGR	CAGR				
Compound Average	2012	2012	2013	2012	2012	2013				
Annual Growth	Approved		Actuals to	Approved	Actuals	Actuals				
(CAGR)	to 2015				to 2019					
	Test Year	Year	Year	Test Year	Test Year	Test Year				
Number of Employees (FTEs including Part-Time)										
Management	2.4%	2.4%	4.2%	1.5%	1.5%	2.0%				
Non-Management	2.3%	3.0%	4.3%	0.9%	1.2%	1.3%				
Total	2.3%	2.9%	4.3%	1.1%	1.3%	1.5%				
Total Salary and Wag	Total Salary and Wages including ovetime and incentive pay									
Management	3.6%	6.2%	4.4%	3.1%	4.2%	3.3%				
Non-Management	4.9%	4.7%	3.8%	3.5%	3.4%	2.8%				
Total	4.5%	5.1%	4.0%	3.4%	3.6%	3.0%				
Total Benefits (Curre	nt + Accru	ed)								
Management	(3.1)%	(2.8)%	0.9%	0.2%	0.4%	2.1%				
Non-Management	(4.9)%	(5.1)%	(1.2)%	(1.3)%	(1.4)%	0.6%				
Total	(4.4)%	(4.5)%	(0.6)%	(0.9)%	(0.9)%	1.0%				
Total Compensation	(Salary, W	lages, & Be	enefits)							
Management	1.8%	3.8%	3.6%	2.4%	3.2%	3.0%				
Non-Management	2.3%	2.0%	2.5%	2.2%	2.1%	2.3%				
Total	2.2%	2.5%	2.8%	2.3%	2.4%	2.5%				

# **GROWTH (CAGR)**

Outside of inflation, there are three components driving the changes summarized in the tables above:

- Additional 5.8 FTE's to 2012 Board-Approved to handle growth assumed in period (see Table 4-23 below),
- Succession planning to manage high level of retirements in the period, resulting in temporary spike in costs (see Table 4-23 below), and
- Reduced annual costs related to post-retirement benefits, driven by the latest (2013) actuarial valuation. The projected reduction in 2015 is approximately

\$500,000 compared to 2012 Actual, with primarily inflationary increases projected thereafter.

The reasoning behind the addition of 5.8 FTE's to the 2012 Board-Approved number, and the temporary spike in cost due to succession planning, are explained in the 'Program And Function Overview' section earlier in this chapter. Table 4-23 below provides a summary by function of the FTE changes, separately identifying movements by retirements, replacements, new hires and overlaps.

	2012	2012	2013	2014	2015	2016	2017	2018	2019	2012 App	2014 to
	Approved	Actual	Actual	Bridge	Test	Test	Test	Test	Test	to 2019	2019
Opening FTE's	75.0	69.0	73.8	73.9	74.9	80.4	84.6	84.4	83.1	75.0	73.9
Retirements											
Grid Construction &	-	-	-	-	(1.3)	(1.7)	(0.5)	(0.8)	(1.8)	(6.0)	(6.0)
Maintenance											
Technical Design	-	-	-	-	-	-	-	(0.5)	(0.5)	(1.0)	(1.0)
Stores	-	-	-	-	-	(0.3)	(0.7)	-	-	(1.0)	(1.0)
Retirements sub-total	0.0	0.0	0.0	0.0	(1.3)	(2.0)	(1.2)	(1.3)	(2.3)	(8.0)	(8.0)
Replacements											
Grid Construction &	-	-	-	0.7	1.3	3.0	1.0	-	-	6.0	6.0
Maintenance											
Technical Design	-	-	-	-	-	1.0	-	-	-	1.0	1.0
Engineering	-	-	-	-	-	0.7	0.3	-	-	1.0	1.0
Replacements sub-total	0.0	0.0	0.0	0.7	1.3	4.7	1.3	0.0	0.0	8.0	8.0
New Hires											
Grid Construction &	-	1.6	-	-	1.0	-	-	-	-	1.0	1.0
Maintenance											
Customer Service	-	1.0	-	-	-	1.0	-	-	-	1.0	1.0
IT	-	-	-	0.4	1.0	-	-	-	-	0.4	1.4
Technical Design	-	-	-	0.4	1.0	-	-	-	-	1.4	1.4
<b>Operations Management</b>	-	-	-	0.5	0.5	-	-	-	-	1.0	1.0
Metering	-	-	-	-	0.5	0.5	-	-	-	1.0	1.0
New Hires sub-total	0.0	2.6	0.0	1.3	4.0	1.5	0.0	0.0	0.0	5.8	6.8
Overlaps	0.0	2.2	0.1	(1.0)	1.4	(0.1)	(0.3)	-	-	0.0	0.1
Closing FTE's	75.0	73.8	73.9	74.9	80.4	84.6	84.4	83.1	80.8	80.8	80.8

TABLE 4-23 – ANALYSIS OF FTE MOVEMENTS 2012 BOARD-APPROVED TO 2019 TEST YEAR

# SHARED SERVICES AND CORPORATE COST ALLOCATION

Oshawa Power & Utility Corporation ("OPUC") is the parent company of OPUCN and charges OPUCN a management fee. The management fee is currently \$480,000 per year and is projected to increase in line with inflation through the period covered by this rate application.

OPUCN allocates a share of its administrative costs to affiliate companies Oshawa PUC Energy Services Inc. ("OPUCES") and Oshawa PUC Services Inc. (OPUCS"). These allocations are based on the cost of the services provided and are reviewed annually. OPUCN charges a contracted market rate for Pole or Duct space rented by OPUCS.

A summary of charges to affiliates for services provided for each year is provided in Tables 4-24 to 4-32, corresponding to the Board's Appendix 2-N. OPUCN has provided Appendix 2-N for the 2012 Board-Approved Year, historical years 2011 and 2013; for the 2014 Bridge Year; and for the 2015-2019 Test Years.

# TABLE 4-24 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

# ALLOCATIONS 2011 ACTUAL

#### Shared Services

Name o	f Company			Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$51,941	\$48,520
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$92,377	\$86,293
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$24,898	\$24,898
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$21,299	\$21,299
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,691	\$3,691

Name of Company				% of	
		Service Offered	Pricing Methodology	Corporate Costs	Amount Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	61.7%	\$480,000
(Parent)	(LDC)				

# TABLE 4-25 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

# ALLOCATIONS 2012 BOARD APPROVED

Name o	f Company			Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$51,052	\$47,864
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$96,696	\$90,658
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$21,935	\$21,935
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$2,261	\$2,261

#### **Shared Services**

Name of Company				% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	61.7%	\$480,000
(Parent)	(LDC)				

### TABLE 4-26 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

### ALLOCATIONS 2013 ACTUAL

#### Name of Company Price for the Cost for the Service Offered **Pricing Methodology** Service Service From Тο \$ \$ OPUCN OPUCES Admin Fees Actual Cost + Approved Rate of Return \$58,852 \$55,178 OPUCN OPUCS Admin Fees Actual Cost + Approved Rate of Return \$96,696 \$90,658 OPUCN OPUCS Joint Use Pole Rental Actual Cost \$27,356 \$27,356 OPUCS \$22,356 \$22,356 OPUCN Duct Fibre Optic Rental Actual Cost OPUCN OPUCS Miscellaneous work Actual Cost \$9,395 \$9,395

#### Shared Services

#### **Corporate Cost Allocation**

Name o	f Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	59.2%	\$480,000
(Parent)	(LDC)				

### TABLE 4-27 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

#### ALLOCATIONS 2014 BRIDGE YEAR

#### **Shared Services**

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$73,990	\$69,370
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$85,567	\$80,225
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$22,356	\$22,356
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,500	\$3,500

Name o	f Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	55.4%	\$480,000
(Parent)	(LDC)				

### TABLE 4-28 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

### ALLOCATIONS 2015 TEST YEAR

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$75,469	\$70,997
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$87,279	\$82,106
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$22,356	\$22,356
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,570	\$3,570

#### Shared Services

#### **Corporate Cost Allocation**

Name o	f Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	55.4%	\$489,600
(Parent)	(LDC)				

### TABLE 4-29 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

## ALLOCATIONS 2016 TEST YEAR

#### Shared Services

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$76,979	\$72,417
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$89,024	\$83,748
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$22,356	\$22,356
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,641	\$3,641

Name o	f Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	55.4%	\$499,392
(Parent)	(LDC)				

# TABLE 4-30 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

# ALLOCATIONS 2017 TEST YEAR

### **Shared Services**

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$78,518	\$73,865
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$90,805	\$85,423
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$22,356	\$22,356
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,714	\$3,714

Name o	f Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	55.4%	\$509,380
(Parent)	(LDC)				

# TABLE 4-31 – CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

### ALLOCATIONS 2018 TEST YEAR

#### Shared Services

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$80,089	\$75,342
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$92,621	\$87,132
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$22,356	\$22,356
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,789	\$3,789

#### **Corporate Cost Allocation**

Name o	of Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	55.4%	\$519,567
(Parent)	(LDC)				

### TABLE 4-32 - CHAPTER 2 - APPENDIX 2-N - SHARED SERVICES/CORPORATE COST

#### ALLOCATIONS 2019 TEST YEAR

#### **Shared Services**

Name of Company				Price for the	Cost for the
		Service Offered	Pricing Methodology	Service	Service
From	То			\$	\$
OPUCN	OPUCES	Admin Fees	Actual Cost + Approved Rate of Return	\$81,690	\$76,849
OPUCN	OPUCS	Admin Fees	Actual Cost + Approved Rate of Return	\$94,473	\$88,874
OPUCN	OPUCS	Joint Use Pole Rental	Actual Cost	\$27,356	\$27,356
OPUCN	OPUCS	Duct Fibre Optic Rental	Actual Cost	\$22,356	\$22,356
OPUCN	OPUCS	Miscellaneous work	Actual Cost	\$3,864	\$3,864

Name o	f Company			% of	Amount
		Service Offered	Pricing Methodology	Corporate	Allocated
From	То			%	\$
OPUC	OPUCN	Management Fees	Cost Based	55.4%	\$529,959
(Parent)	(LDC)				

# **Reconciliation of Revenue in Appendix 2-N**

The Board's Filing Requirements require applicants to provide a reconciliation of the revenue in Appendix 2-N to the amounts included in Other Revenue in Exhibit 3. Only "Joint Use Pole Rental" and "Duct Fibre Optic Rental" in Tables 4-24 to 4-32 above are also included in Other Revenue as reported in Exhibit 3. Both are reported within USA Account 4610, Rent from Electric Property. Table 4-33 below reconciles the Other Revenue amounts in Tables 4-24 to 4-32 above to the Other Revenue amounts in Exhibit 3.

Extract fro	Extract from Exhibit 3 - Other Revenue												
USA	USA Description		Actual	Actual	Bridge	Test	Test	Test	Test	Test			
		2011	2012	2013	2014	2015	2016	2017	2018	2019			
Pole Rent	tal - OPUCS	24,898	27,356	27,356	27,356	27,356	27,356	27,356	27,356	27,356			
Duct Rent	tal - OPUCS	21,299	21,935	22,356	22,356	22,356	22,356	22,356	22,356	22,356			
Pole Rent	tal - Non-Affiliates	102,585	151,653	129,727	126,676	126,676	126,676	126,676	126,676	126,676			
4210 Rent	t from Electric Property	148,782	200,944	179,439	176,388	176,388	176,388	176,388	176,388	176,388			
Extract fro	Extract from Exhibit 4 - Appendix 2-N Shared Services Allocations												
From	To - Description	Actual	Actual	Actual	Bridge	Test	Test	Test	Test	Test			
		2011	2012	2013	2014	2015	2016	2017	2018	2019			
OPUCN -	OPUCS : Pole Rental	24,898	27,356	27,356	27,356	27,356	27,356	27,356	27,356	27,356			
OPUCN -	OPUCS : Duct Rental	21,299	21,935	22,356	22,356	22,356	22,356	22,356	22,356	22,356			

TABLE 4-33 – RECONCILIATION TO "OTHER REVENUE" IN EXHIBIT 3

# **ONE-TIME COSTS**

With the exception of costs related to this Application discussed below under Regulatory Costs, OPUCN is not proposing to recover any other one-time costs in this Application over a period of time. The estimated cost for completing this Application is being amortized over a period of five years.

## PURCHASE OF NON-AFFILIATE SERVICES

All supplier and contractor expenditures have been sourced and procured using the activities, practices and processes defined within OPUCN's Corporate Procurement and Corporate Expenditure Approval Policies. All procurements of services and materials are supported by an approved Purchase Order ("PO") prior to any commitments, with the exception of services and materials provided for Legal, Consulting, Recruiting, Utilities (water, gas, hydro and telephone), Regulatory, Financial, and Employee benefits. See Appendix 4-2 for OPUCN's Corporate Purchasing Policy.

OPUCN purchases many services and products from third parties. Tables 4-34 to 4-37 disclose the expenditures by vendor where the annual amount exceeded \$100,000 per year, for the years 2011, 2012, 2013 and 2014 (September year to date), respectively.

Purchases for 2014 to 2019 operating and capital works will continue to be based on the methodology contained within OPUCN's Procurement Policy, which has been attached as Appendix 4-2.

	2011		Procurement
Vendor	Amount	Product or Service	Method
CG Power Systems Canada	2,060,086	Transformers	RFI
HD Supply Power Solutions	1,551,224	Material	RFI
OMERS	885,804	Pension Plan for Employees	n/a
ERTH	823,814	Billing Software & Services	Tender
Wajax Industries	735,709	Vehicle Purchases	Quote
Green Shield	698,486	Employee/Retiree Benefits	Tender
Posi-Plus Ontario Inc.	615,943	Vehicle Purchases	Quote
Elster Meters	610,942	Metering Equipment	Tender
City Of Oshawa	480,836	Property Rental & Taxes	n/a
Eaton Industries	465,795	Breaker Replacement	Quote
Canada Post	360,000	Postage	n/a
The Mearie Group	343,843	Insurance	Quote
Guelph Utility Pole Company	342,511	Material	RFI
Optilinx Systems Inc.	314,365	Directional Boring	Tender
Danco Building Services	285,769	Building Repairs & Maintenance	Quote
Promark Telecon Inc.	281,055	Underground Locates	Tender
Brass Industrial Services Inc.	255,756	Vacuum Excavation	Tender
Intergraph Canada Ltd.	229,698	GIS System	RFP
Utilismart Corporation	228,319	Metering (MAS System) Services	Tender
Borden Ladner Gervais	218,025	Legal & Consulting Services	Quote
Guillevin International Inc.	204,400	Material	RFI
Honeywell Limited	193,619	CDM Installations	Quote
Timberland Equipment Ltd.	191,716	Vehicle Purchases	Quote
Ernst & Young	184,957	Auditing Services	Tender
Ontario Line Clearing	172,290	Tree Trimming	Tender
Ogilvy Renault LLP (In Trust)	171,995	Late Payment Class Action Settler	n/a
M.E.T. Utilities Management	162,968	Meter Services	Tender
Black & Macdonald	147,625	Grid Construction Subcontractor	Tender
Securitas Canada Limited	144,178	Security Services	RFP
Lidaco Contracting Ltd	139,004	Backhoe Operater	Tender
Ontario Energy Board	138,981	Regulatory Fees	n/a
Coutts And Flim Surveying Inc.	125,176	Subcontracted Design	Quote
Snyder Construction	119,066	Building Renovations	Quote
PTC Accounting & Finance	117,447	Staffing Agency	Quote
Nedco	112,538	CDM Installations	Quote
Paddy's Market	111,905	Electronic Equipment (Insurance)	Quote
Suncor Energy Products	110,636	Fuel Supplies	Quote
Harper Detroit Diesel-Allison	106,176	Vehicle Repair	RFP
Ontario Motor Sales	104,358	Vehicle Purchases	Quote

# TABLE 4-34-2011 NON-AFFILIATE SUPPLIERS

	2012		Procurement
Vendor	Amount	Product or Service	Method
CG Power Systems Canada	2,918,185	Transformers	RFI
HD Supply Power Solutions	1,746,446	Material	RFI
OMERS	1,124,158	Pension Plan for Employees	n/a
Green Shield	778,870	Employee/Retiree Benefits	Tender
ERTH	590,760	Billing Software & Services	Tender
City Of Oshawa	481,384	Property Rental & Taxes	n/a
Posi-Plus Ontario Inc.	478,738	Vehicle Purchases	Quote
Willis Energy Services (Ont) Ltd.	426,283	CDM Subcontractor	Quote
Canada Post	405,000	Postage	n/a
The Mearie Group	402,486	Insurance	Quote
Eaton Industries	363,432	Breaker Replacement	Quote
ITM Group	360,600	IT Support & Computing Equipme	Quote
Promark Telecon Inc.	288,875	Underground Locates	Tender
Riggs Distler	284,180	Grid Construction Subcontractor	Tender
Elster Meters	271,390	Metering Equipment	Tender
Brass Industrial Services Inc.	244,052	Vacuum Excavation	Tender
Guelph Utility Pole Company	233,260	Material	RFI
Guillevin International Inc.	207,269	Material	RFI
Black & Macdonald	197,994	Grid Construction Subcontractor	Tender
Intergraph Canada Ltd.	179,732	GIS System	RFP
Harper Detroit Diesel-Allison	179,612	Vehicle Repair	RFP
Jomar Softcorp International	179,472	ODS System	Tender
Ontario Line Clearing	168,733	Tree Trimming	Tender
Ernst & Young	163,292	Auditing Services	Tender
Ontario Energy Board	162,725	Regulatory Fees	n/a
M.E.T. Utilities Management	156,715	Meter Services	Tender
Suncor Energy Products	156,551	Fuel Supplies	Quote
Ontario Motor Sales	154,506	Vehicle Purchases	Quote
Securitas Canada Limited	151,828	Security Services	RFP
Lidaco Contracting Ltd	144,572	Backhoe Operater	Tender
Danco Building Services	139,667	Building Repairs & Maintenance	Quote
NBM Engineering Inc.	134,093	Subcontracted Design	Quote
Utilismart Corporation	132,294	Metering (MAS System) Services	Tender
Loblaws Inc.	122,555	CDM Program Incentives	n/a

# TABLE 4-35 - 2012 NON-AFFILIATE SUPPLIERS

#### 2013 Procurement Vendor Method Amount **Product or Service** HD Supply Power Solutions 2,822,815 Material RFI n/a OMERS 1,329,581 Pension Plan for Employees Guelph Utility Pole Company RFI 1,145,794 Material Westmore Poleline And Electric 842,076 Grid Construction Subcontractor Tender **Riggs Distler** 755,503 Grid Construction Subcontractor Tender K-Line Maint & Const Ltd 753,139 Grid Construction Subcontractor Tender CG Power Systems Canada 710,375 Transformers RFI Green Shield 662,314 **Employee/Retiree Benefits** Tender ERTH 605,674 **Billing Software & Services** Tender 549,485 Willis Energy Services (Ont) Ltd. **CDM Subcontractor** Quote City Of Oshawa 483,451 **Property Rental & Taxes** n/a Promark Telecon Inc. 470,854 Underground Locates Tender The Mearie Group 457,741 Insurance Quote G & W Electric Ltd 391,825 Grid Construction Subcontractor Tender n/a Canada Post 390,000 Postage Tender Brass Industrial Services Inc. 352,323 Vacuum Excavation 295,039 Subcontracted Design Quote NBM Engineering Inc. Guillevin International Inc. RFI 292,276 Material **Elster Meters** 268,203 **Metering Equipment** Tender Honeywell Limited 265,134 **CDM** Installations Quote Tender M.E.T. Utilities Management 196,666 **Meter Services** Ontario Line Clearing 185,981 Tree Trimming Tender H.M. Brooks (Oshawa) Limited 159,555 Vault Repairs Tender Ernst & Young 155,923 Auditing Services Tender Sub-Terrain Directional Drilling **Directional Boring** Tender 154,509 Lidaco Contracting Ltd 152,081 **Backhoe Operater** Tender Coco Paving Inc. 151,498 Grid Construction Subcontractor Tender Coutts And Flim Surveying Inc. 147,217 Subcontracted Design Quote Suncor Energy Products 137,652 **Fuel Supplies** Quote **Ontario Energy Board** 134,659 **Regulatory Fees** n/a Intergraph Canada Ltd. 134,067 **GIS System** RFP Hard-Co Construction Ltd. 127,938 Grid Construction Subcontractor Tender Eaton Industries 127,515 **Breaker Replacement** Quote Caldwell Partners 103,163 **HR** Consulting Quote Langley Utlities Contracting Grid Construction Subcontractor 101,925 Tender Harper Detroit Diesel-Allison Vehicle Repair RFP 101,530

#### TABLE 4-36 - 2013 NON-AFFILIATE SUPPLIERS

201	4 (Sep YTD)		Procurement
Vendor	Amount	Product or Service	Method
HD Supply Power Solutions	1,691,256	Material	RFI
OMERS	1,045,922	Pension Plan for Employees	n/a
CG Power Systems Canada	889,310	Transformers	RFI
Green Shield	474,347	Employee/Retiree Benefits	Tender
Guelph Utility Pole Company	417,272	Material	RFI
The Mearie Group	411,742	Insurance	Quote
City Of Oshawa	363,283	Property Rental & Taxes	n/a
G & W Electric Ltd	343,600	Grid Construction Subcontractor	Tender
ERTH	333,130	Billing Software & Services	Tender
Canada Post	270,000	Postage	n/a
Promark Telecon Inc.	259,889	Underground Locates	Tender
Hard-Co Construction Ltd.	234,260	Grid Construction Subcontractor	Tender
Willis Energy Services (Ont) Ltd.	212,810	CDM Subcontractor	Quote
Brass Industrial Services Inc.	211,952	Vacuum Excavation	Tender
Asplundh Canada ULC	151,591	Tree Trimming	Tender
M.E.T. Utilities Management	138,248	Meter Services	Tender
NBM Engineering Inc.	138,019	Subcontracted Design	Quote
Ernst & Young	136,866	Auditing Services	Tender
Guillevin International Inc.	132,143	Material	RFI
Lakeridge Health	130,350	CDM Program Incentives	n/a
Riggs Distler	125,393	Grid Construction Subcontractor	Tender
Gowling Lafleur Henderson LLP	113,772	Consulting (Rate Application)	Quote
Lidaco Contracting Ltd	107,300	Backhoe Operater	Tender
Suncor Energy Products	93,628	Fuel Supplies	Quote
Ontario Energy Board	91,955	Regulatory Fees	n/a
Harper Detroit Diesel-Allison	86,539	Vehicle Repair	RFP
Sub-Terrain Directional Drilling	85,382	Directional Boring	Tender
Elster Meters	78,158	Metering Equipment	Tender
Metsco	71,755	Engineering - Consulting (COS)	Quote

# TABLE 4-37 – 2014 SEPTEMBER YTD NON-AFFILIATE SUPPLIERS

# **REGULATORY COSTS**

Regulatory costs include on-going expenses incurred in connection with Decisions and Orders on Cost Awards for hearings, proceedings, technical sessions, and other matters before the Board or other regulatory bodies. Costs include:

- Annual assessment fees paid to the Board;
- Board costs pursuant to Section 30 of the Ontario Energy Board Act, 1998;
- legal and consulting costs for rate applications and other regulatory matters; and
- Intervenor costs.

Regulatory costs in the 2015 Test Year are estimated to be \$348,166, an increase of \$97,225 from the 2014 Bridge Year. Table 4-38, below identifies the incremental costs expected to be incurred for this Application. OPUCN proposes to recover these costs evenly over the 2015 - 2019 Test Years, as identified in the section on "One Time Costs".

Table 4-38 below details regulatory costs included within Uniform System of Accounts ("USoA") account 5655. OPUCN has not included the costs of regulatory staff or other staff working on regulatory applications in Account 5655. These costs are included in Accounts 5605, 5610, and 5615.

OPUCN estimates that it will incur incremental costs of \$973,694 in respect of this Application. This estimate includes special studies, reports, preparation, defence and adjudication costs, as well as Board and intervenor costs. Increases in costs were budgeted as it is expected that there will be increased requirements for legal and consulting support due to the complexity of this Application and its effective duration. OPUCN identifies these as "one-time" costs under Regulatory. These costs will have been incurred and expensed in 2014 but are excluded from the OM&A amounts reported for those years in this Exhibit. OPUCN is requesting recovery of these costs over the five Test Years included in this Custom IR Application (from 2015 through 2019 inclusive). One-fifth (\$194,739) of the total amount incurred is included as an expense to OM&A in each of the years 2015 through 2019 inclusive.

### TABLE 4-38 – EXTRACT FROM APPENDIX 2-M - REGULATORY COST SCHEDULE 2011 – 2019

Regulatory Cost Category	Ongoing or One- time Cost? 2	Last Rebasing Year (2012 Board Approved)	Most Current Actuals Year 2013	2014 Bridge Year	2015 Test Year	2016 Test Year	2017 Test Year	2018 Test Year	2019 Test Year
OEB Annual Assessment	On-Going	\$ 141,855	\$ 129,211	\$ 144,441	\$ 147,330	\$ 150,277	\$ 153,282	\$ 156,348	\$ 159,475
OEB Section 30 Costs (OEB-initiated)	On-Going	\$-	\$ 4,648	\$ 4,741	\$ 4,836	\$ 4,932	\$ 5,031	\$ 5,132	\$ 5,234
Amortisation of Rate Application costs	One-Time	\$ 100,000	\$ 100,000	\$ 100,000	\$ 194,739	\$ 194,739	\$ 194,739	\$ 194,739	\$ 194,739
Advertisement costs - new rates	On-Going	\$ 4,759	\$ 1,488	\$ 1,759	\$ 2,000	\$ 2,040	\$ 2,081	\$ 2,122	\$ 2,165
Other	On-Going	\$ -	\$ -	\$-	-\$ 739	-\$ 39	\$ 868	\$ 1,798	\$ 2,749
Sub-total - Ongoing Costs <sup>3</sup>		\$ 146,614	\$ 135,347	\$ 150,941	\$ 153,427	\$ 157,211	\$ 161,263	\$ 165,400	\$ 169,624
Sub-total - One-time Costs <sup>4</sup>		\$ 100,000	\$ 100,000	\$ 100,000	\$ 194,739	\$ 194,739	\$ 194,739	\$ 194,739	\$ 194,739
Total - USA Account 5655		\$ 246,614	\$ 235,347	\$ 250,941	\$ 348,166	\$ 351,949	\$ 356,001	\$ 360,138	\$ 364,362

 Annual % Change
 -4.6%
 6.6%
 38.7%
 1.1%
 1.2%
 1.2%
 1.2%

#### One-time costs related to this cost of service application to be amortized over the test year plus the IRM period.

Expert Witness costs	\$ 20,000
Legal costs	\$ 350,000
Consultants' costs	\$ 434,500
Unamortised 2012 Rate Application costs	\$ 47,686
OEB costs	\$ 29,461
Intervenor costs	\$ 92,047
Total	\$ 973,694

\$ 194,739 \$ 194,739 \$ 194,739 \$ 194,739 \$ 194,739

# LOW INCOME ENERGY ASSISTANCE PROGRAMS

OPUCN has actively supported LEAP since 2011. Customer Care works closely with the lead agencies, namely the United Way. In 2013, OPUCN provided \$24,312 in LEAP funding which assisted 48 families in Oshawa by providing financial support.

As prescribed by the Board, OPUCN contributes 0.12% of the Board-Approved distribution revenue requirement annually to LEAP. The contributions for the 2015 through 2019 Test Years are forecast to be \$27,460, \$30,064, \$31,293, \$32,479, and \$33,219, respectively.

OPUCN submits annual LEAP reporting to the Board in compliance with the 2013 LEAP Manual. OPUCN is compliant with the Board's requirements regarding financial assistance opportunities in conjunction with social agencies, CDM initiatives, and customer service changes specific to low-income sector customers.

# CHARITABLE AND POLITICAL DONATIONS

OPUCN has not included any charitable or political donations in the revenue requirement for the Test Years, other than contributions to programs that provide assistance to low income consumers as identified in the preceding Schedule of this Exhibit. The following Table 4-39 summarizes the LEAP donations from 2011 Board-Approved through the 2019 Test Year.

	201	1 Actual	2012 Board Approved		20	)12 Actual	20	13 Actual	20	)14 Bridge Year
LEAP	\$	26,603	\$	24,052	\$	24,052	\$	24,312	\$	26,072

	2015	Test Year	2016	6 Test Year	2017	7 Test Year	2018	Test Year	2019	Test Year
LEAP	\$	27,460	\$	30,064	\$	31,293	\$	32,479	\$	33,219

# DEPRECIATION, AMORTIZATION, AND DEPLETION

# **Overview of Depreciation, Amortization, and Depletion**

OPUCN adheres to Modified International Financial Reporting Standards ("MIFRS") capitalization accounting treatments for rate making and regulatory reporting purposes. OPUCN's most recent rebasing application (EB-2011-0073) included the transition to MIFRS effective January 1, 2012. Depreciation is computed on a straight-line basis over the estimated useful life of the item of PP&E, with six months of depreciation charged in the year of addition. The depreciable amount of an asset is determined after deducting its estimated residual value, if material. OPUCN has no items of PP&E with residual values. In accordance with MIFRS standards, the components of each item of PP&E are depreciated separately.

In its 2012 application, OPUCN adopted, for asset depreciation purposes, the typical useful lives recommended by Kinectrics in its' Asset Depreciation Study prepared for the OEB. OPUCN retained an independent 3<sup>rd</sup> party, Metsco, with the objective of establishing the typical useful life (TUL) of major fixed assets employed on OPUCN's distribution system. The resulting report, completed in January 2014, found the typical useful life of the majority of the assets employed on OPUCN's distribution system were accurately reflected in the Kinectrics report, with the exception of six asset classes. A copy of the Metsco report is included in this application as Appendix 4-3. Table 4-40 below summarizes the asset classes where Metsco recommends a TUL different to Kinectrics.

Asset Class	Typical Useful Life	Typical Useful Life
	(Kinectrics Conclusion)	(Metsco Conclusion)
Power Transformers employed at Distribution		
Stations	45 years	40 years
Station Independent Circuit breakers	45 years	40 years
Overhead conductors	60 years	45 years
Overhead Line switches	45 years	40 years
SCADA System	20 years	8 years
Direct Buried Secondary Cables	35 years	42.5 years

# TABLE 4-40 – OPUCN ASSET DEPRECIATION STUDY CONCLUSIONS

### Power Transformers

Metsco analysed the actual useful service life for a batch of power transformers that have been retired from service at OPCUN during the past five years. The results of this analysis indicate the mean useful life of power transformers at OPUCN to be 39 years.

## Station Independent Circuit breakers

The Kinectrics report indicates that based on broader industry experience, the typical life expectancy of individual circuit breakers is 40 years. It is also noteworthy that only three of the six utilities surveyed by Kinectrics provided information relevant to this asset and there were extremely large deviations in service age data obtained from them. Kinectrics did not investigate the reasons behind such large deviations, but it is possible the deviations were caused by mixing indoor and outdoor mounted circuit breakers in the same category and not excluding the circuit breakers which might have been completely overhauled. One of the utilities reported typical service life of 70 years for circuit breakers, which was likely achieved through major refurbishment or rehabilitation of original breakers with additional capital expenditure.

In Metsco's opinion, because this asset class is composed of a broad category of different types of circuit breakers, some installed indoors and some installed outdoors, the surveys performed by Kinectrics did not correctly reveal the typical useful life of outdoor circuit breakers. For this asset, the typical useful life based on the overall industry experience, as reported by Kinectrics, more accurately represents the typical useful life of circuit breakers employed on OPUCN system.

# **Overhead conductors**

The Kinectrics report, summarizes the typical useful life of overhead line conductors. As shown, it concludes the typical useful life of overhead line conductors to be 60 years. We agree the conductors on distribution lines often outlive the poles and are not usually on the critical path to determine end of life for a line section. But typically, whenever a line is rebuilt with new poles, the conductors are also replaced at the same time, because it is economically prudent to do so.

To avail of the hypothetical useful life of 60 years for the line conductors supported on wood poles with typical useful life of 45 years, the line will need to be rebuild in a piecemeal fashion; i.e. all the wood poles will need be replaced when a majority of them have reached the end of their service life after 45 years and then 15 years later the conductors will need to replaced. Such piece meal construction of medium voltage lines would also require live-line construction techniques. Electric utilities' practical experience indicates that it is more economical to construct the line in a single stage replacing all the components at the same time, rather than constructing the line in a piece meal manner.

Thus while we agree the conductors often outlive poles in terms of their performance degradation, because it is more economical to reconstruct the overhead lines by changing all the components at the same time rather than reconstructing the line in stages, the effective typical useful life for overhead line conductors is equal to the typical useful life of the wood poles. Therefore we believe it is appropriate to employ 45 years to be the typical useful life for overhead line conductors, because a vast majority of the overhead lines at OPUCN are supported on wood poles.

# Overhead Line switches

The Kinectrics report shows that the six utilities responding to their survey reported typical useful life of 30 years (1), 35 years (1), 40 years (2) and 50 years (2), which results in mean useful life of 41 years. Kinectrics has indicated their opinion of the typical useful life for this asset in broader industry to be 50 years, but no evidence is provided in the report to support this belief. Based on the results of the survey gathered

by Kinectrics and based on OPUCN's own operating experience, the correct typical useful life of this asset is 40.

### SCADA System

Metsco investigations into OPUCN SCADA history reveal that the control room hardware and software components were installed in 2008. In late 2013 one of the SCADA Workstation failed and was replaced, providing service life of 5 years. OPUCN also upgraded the two servers at the same time. While performing the above listed computer hardware replacements and upgrades, OPUCN also upgraded the SCADA Software. In the substation RTUs, the original analog and control boards are still in service for about 20 years, but the CPUs required replacement after about 15 years of service.

To maximize the benefits of major investments into the advanced revenue metering systems, many LDCs are implementing major upgrades to their SCADA systems to incorporate smart grid functions, i.e. outage management systems. Such advanced functions require both hardware and software upgrades prior to these components reaching the end of their mechanical life due failure in service.

In view of the foregoing, in our opinion, the typical useful life of SCADA system is of the order of 8 years, rather than 20 years, proposed in Kinectrics report.

### Direct Buried Secondary Cables

The Kinectrics report suggests typical useful life of 35 years for direct buried secondary cables. The six utilities surveyed by Kinectrics reported typical useful life for secondary cables of 20, 40, 40, 45, 50 and 60 years, which yields mean typical mean life of 42.5 years. Kinectrics report suggests typical service life of 35 years for direct buried secondary cables, based on the general industry experience. In our opinion there is no evidence to support this assumption and the typical useful life of this asset should be 42.5 years.

OPUCN is proposing to adopt the typical useful life recommended by Metsco for the asset classes above, resulting in an annual increase in depreciation expense of

approximately \$60,000. Further explanations are provided in the attached Metsco report (Appendix 4-3) for useful lives proposed in the application that differ from those contained in the Kinectrics Report.

OPUCN maintains the proposed levels of depreciation/amortization expense are appropriately reflective of the useful lives of the assets and the Board's accounting policies. Apart from the changes to the estimated useful lives of certain asset classes noted above, there are no other changes to OPUCN's depreciation/amortization policy since the last cost of service filing.

The following Table 4-41 and Table 4-42 details the asset class service lives as recommended by Kinectrics, and compares with the current and proposed service lives adopted by OPUCN.

		Ass	set Details		ι	seful Li	fe			Cur	rent	Prop	osed
Parent*	#	Category  C	Component   Type		MIN UL	TUL	MAX UL	USoA Account Number	USoA Account Description	Years	Rate	Years	Rate
			Overall		35	45	75	1830	Poles, Towers and Fixtures	45	2%		2%
	1	Fully Dressed Wood Poles	Cross Arm	Wood	20	40	55	1830	Poles, Towers and Fixtures	40	3%	40	3%
			Closs All	Steel	30	70	95						
			Overall		50	60	80	1830	Poles, Towers and Fixtures	60	2%		2%
	2	Fully Dressed Concrete Poles	Cross Arm	Wood	20	40	55	1830	Poles, Towers and Fixtures	40	3%	40	3%
	_			Steel	30	70	95						
			Overall		60	60	80		Dverhead Conductors and Devices 45 Dverhead Conductors and Devices 45 Dverhead Conductors and Devices 60 ine Transformers 40 Distribution Station Equipment 45				
	3	Fully Dressed Steel Poles	Cross Am         Steel         30         70         95           30         45         55         1835         Overhead Conductors and Devices           tor         15         25         25         0           U         15         20         20         0           es         35         45         60         1835         Overhead Conductors and Devices           Voltage Regulators         35         45         60         1835         Overhead Conductors and Devices           Voltage Regulators         30         40         60         1850         Line Transformers           r Banks         25         30         40         60         1850         Line Transformers           S         Qverall         30         45         60         1820         Distribution Station Equipment           s         Bushing         10         20         30         60         1820         Distribution Station Equipment										
он				Steel									
	4	OH Line Switch						1835	Overhead Conductors and Devices	45	2%	40	3%
	5	OH Line Switch Motor	Line Switch Motor Line Switch RTU Integral Switches Conductors Transformers & Voltage Regulators Shunt Capacitor Banks		-		-			_	-	-	
	6											. –	
	7												2%
	8						-						2%
	9							1850	Line Transformers	40	3%	40	3%
	10				-					_			
	11	Reclosers			-	-				_		-	
								1820	Distribution Station Equipment	45	2%	45	2%
	12	Power Transformers								_	-	-	
			Tap Changer										
	13	Station Service Transformer			30	45	55	1820	Distribution Station Equipment	45	2%	40	3%
	14	Station Grounding Transformer			30	40	40						
			Overall		10	20	30						
	15	Station DC System	Battery Bank		10	15	15				3%         40           2%         40           2%         40           2%         45           3%         40           2%         45           3%         40           2%         45           3%         40           2%         45           3%         40           3%         40           3%         40           2%         40           2%         40           2%         40           2%         40           2%         50		
			Charger		20	20	30						
TS & MS	16	Station Metal Clad Switchgear	Overall		30	40	60	1820	Distribution Station Equipment	40	3%	40	3%
			Removable Break	er	25	40	60			_			
	17	Station Independent Breakers			35	45	65	1820	Distribution Station Equipment	45	2%	40	3%
	18	Station Switch			30	50	60	1820	Distribution Station Equipment	50	2%	50	2%
	19	Electromechanical Relays			25	35	50	1820	Distribution Station Equipment	35	3%	35	3%
	20	Solid State Relays			10	30	45						
	21	Digital & Numeric Relays			15	20	20						
	22	Rigid Busbars			30	55	60						
	23	Steel Structure			35	50	90						
	24	Primary Paper Insulated Lead Co	vered (PILC) Cables		60	65	75			-			
	25	Primary Ethylene-Propylene Rub			20	25	25						
		Primary Non-Tree Retardant (TR)	( )										-
	26	Polyethylene (XLPE) Cables Dire			20	25	30						
	27	Primary Non-TR XLPE Cables in			20	25	30						<u> </u>
	28	Primary TR XLPE Cables Direct B			25	30	35						<u> </u>
	29	Primary TR XLPE Cables in Duct			35	40	55	1845	Underground Conductors and Devices	40	3%	40	3%
	30	Secondary PILC Cables			70	75	80	1040			070	-0	5 /0
	31	Secondary Cables Direct Buried			25	35	40	1845	Underground Conductors and Devices	35	3%	42.5	2%
UG	32	Secondary Cables Direct Dured			35	40	40 60	1845	Underground Conductors and Devices	40	3%	40	3%

# TABLE 4-41 – APPENDIX 2-BB – SERVICE LIFE COMPARISON (PART I OF II)

# TABLE 4-42 – APPENDIX 2-BB – SERVICE LIFE COMPARISON (PART II OF II)

33	Network Tranformers	Overall	20	35	50						
33	Network traniormers	Protector	20	35	40					40 35 55 60 35 30 50 55 8	
34	Pad-Mounted Transformers		25	40	45	1850	Line Transformers	40	3%	40	3%
35	Submersible/Vault Transformers		25	35	45	1850	Line Transformers	35	3%	35	3%
36	JG Foundation		35	55	70	1845&1850	Underground Conductors and Devices	55	2%	55	2%
37	IG Vaults	Overall	40	60	80	1850	Line Transformers	60	2%	60	2%
57		Roof	20	30	45						
38	UG Vault Switches	Rool		35	50	1845	Underground Conductors and Devices	35	3%	35	3%
39	Pad-Mounted Switchgear		20	30	45	1845	Underground Conductors and Devices	30	3%	30	3%
40	Ducts		30	50	85	1845	Underground Conductors and Devices	50	2%	50	2%
41	Concrete Encased Duct Banks		35	55	80	1845	Underground Conductors and Devices	55	2%	55	2%
42	Cable Chambers		50	60	80						
43	Remote SCADA		15	20	30	1975	Load Management Controls - Utility Pren	20	5%	8	13%

### Table F-2 from Kinetrics Report<sup>1</sup>

		Asset Details		USoA Account		Cur	rent	Proposed	
#	Category  Component   Type		Useful Life Range	Number	USoA Account Description	Years	Rate	Years	Rate
1	Office Equipment		5-15	1955&1960	Communication & Misc. Equipment	10	10%	10	10%
		Trucks & Buckets	5-15	1930	Transportation Equipment	10	10%	10	10%
2	Vehicles	Trailers	5-20	1930	Transportation Equipment	12	8%	12	8%
		Vans	5-10	1930	Transportation Equipment	8	13%	8	13%
3	Administrative Buildings		50-75						
4	Leasehold Improvements		Lease dependent	1910	Leasehold Improvements	5	20%	5	20%
		Station Buildings	50-75	1808	Buildings and Fixtures	62	2%	62	2%
5	Station Buildings	Parking	25-30	1808	Buildings and Fixtures	42	2%	42	2%
5		Fence	25-60	1808	Buildings and Fixtures	42	2%	42	2%
		Roof	20-30	1808	Buildings and Fixtures	42	2%	42	2%
6	Computer Equipment	Hardware	3-5	1920	Computer Equipment - Hardware	4	25%	4	25%
0	Computer Equipment	Software	2-5	1611	Computer Software	3	33%	3	33%
	Equipment	Power Operated	5-10						
7		Stores	5-10						
1		Tools, Shop, Garage Equipment	5-10	1940	Tools, Shop and Garage Equipment	7	14%	7	14%
		Measurement & Testing Equipment	5-10	1945	Measurement and Testing Equipment	7	14%	7	14%
8	Communication	Towers	60-70						
0	Communication	Wireless	2-10						
9	9 Residential Energy Meters		25-35	1860	Meters	30	3%	30	3%
10	10 Industrial/Commercial Energy Meters		25-35	1860	Meters	30	3%	30	3%
11	Wholesale Energy Meters		15-30						
12	Current & Potential Transformer (CT & PT)		35-50	1860	Meters	42	2%	42	2%
13	Smart Meters	5-15	1860	Meters	10	10%	10	10%	
14	Repeaters - Smart Metering	10-15							
15	Data Collectors - Smart Meter	ing	15-20						

# ASSET RETIREMENT OBLIGATIONS

OPUCN does not have any Asset Retirement Obligations ("AROs"), or associated depreciation or accretion expenses in relation to the AROs, to report as part of this Application.

# DETAILS FOR DEPRECIATION, AMORTIZATION AND DEPLETION BY ASSET GROUP

OPUCN has provided details for Depreciation, Amortization and Depletion by asset group for the Historical, Bridge and Test Years, including asset amount and depreciation rate in Appendices 2-CA to 2-CE below (Tables 4-43 to 4-52). These amounts agree to the balances in Appendix 2-BA - Fixed Asset Continuity Schedules provided in Appendix 2-1 of Exhibit 2. Appendices 2-CA to 2-CE have been provided in CGAAP for 2011 and in MIFRS for 2012 to 2019.

Account	Description	Opening Regulatory Gross PP&E as at Jan 1, 2011 (a)	Less Fully Depreciated (b)	Net for Depreciation (c)	Additions (d)	Total for Depreciation (e) = (c) + $\frac{1}{2} x$ (d) <sup>1</sup>	Years (f)	Depreciation Rate (g) = 1 / (f)	Depreciation Expense (h) = (e) / (f)	2011 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance <sup>2</sup> (m) = (h) - (l)
1611	Computer Software (Formally known as Account	(-7	(-)		<u> </u>				(.) (.)		(, (.) (.)
1011	1925)	235,770	225,929	9,841	395,951	207,817	2	50%	103,909	103,908	0
1612	Land Rights (Formally known as Account 1906)	0		0	0	0		0%	0	0	-
1805	Land	293,875		293,875	0	293,875		0%	0	0	-
1808	Buildings	570,963	41,469	529,494	0	529,494	42	2%	12,607	10,360	2,247
1810	Leasehold Improvements	0		0	0	0		0%	0	0	
1815	Transformer Station Equipment >50 kV	0		0	0	0		0%	0	0	-
1820	Distribution Station Equipment <50 kV	12,057,872	3,239,548	8,818,324	2,744,991	10,190,820	30	3%	339,694	341,272	(1,578)
1825	Storage Battery Equipment	0		0	0	0		0%	0	0	
1830	Poles, Towers & Fixtures	0		0	0	0		0%	0	0	0
1835	Overhead Conductors & Devices	50,225,428	8,696,990	41,528,438	3,040,545	43,048,711	27	4%	1,594,397	1,631,888	(37,492)
1840	Underground Conduit	0		0	0	0		0%	0	0	0
1845	Underground Conductors & Devices	63,940,852	11,642,615	52,298,237	3,317,591	53,957,032	23	4%	2,345,958	2,310,962	34,996
1850	Line Transformers	15,755,642	3,250,175	12,505,467	68,951	12,539,942	35	3%	358,284	361,878	(3,594)
1855	Services (Overhead & Underground)	0		0	0	0		0%	0	0	0
1860	Meters	9,133,509	777,566	8,355,943	0	8,355,943	30	3%	278,531	319,708	(41,177)
1860	Meters (Smart Meters)	0		0	6,780,571	3,390,286	10	10%	339,029	877,708	(538,679)
1905	Land	0		0	0	0		0%	0	0	0
1908	Buildings & Fixtures	0		0	0	0		0%	0	0	0
1910	Leasehold Improvements	296,465	124,275	172,190	334,285	339,332	10	10%	33,933	20,314	13,619
1915	Office Furniture & Equipment (5 years)	0		0	0	0		0%	0	0	0
1915	Office Furniture & Equipment (10 years)	707,745	600,028	107,717	10,958	113,196	10	10%	11,320	13,588	(2,268)
1920	Computer Equipment - Hardware	2,074,786	1,904,300	170,486	37,421	189,197	4	25%	47,299	53,177	(5,877)
1920	Computer EquipHardware(Post Mar. 22/04)	0		0	0	0		0%	0	0	0
1920	Computer EquipHardware(Post Mar. 19/07)	0		0	0	0		0%	0	0	0
1930	Transportation Equipment	3,622,595	2,446,926	1,175,669	585,197	1,468,267	8	13%	183,533	179,915	3,619
1935	Stores Equipment	24,516	23,366	1,150	0	1,150	7	14%	164	115	49
1940	Tools, Shop & Garage Equipment	1,415,480	615,228	800,252	110,102	855,303	7	14%	122,186	93,569	28,617
1945	Measurement & Testing Equipment	405,788	330,208	75,580	0	75,580	7	14%	10,797	56,592	(45,795)
1950	Power Operated Equipment	0		0	0	0		0%	0	0	0
1955	Communications Equipment	264,585	96,488	168,097	2,000	169,097	5	20%	33,819	9,611	24,209
1955	Communication Equipment (Smart Meters)	0		0	0	0		0%	0	0	0
1960	Miscellaneous Equipment	23,602	23,602	0	0	0		0%	0	0	0
1970	Load Management Controls Customer Premises	107,035	107,035	(0)	0	(0)		0%	0	0	0
1975	Load Management Controls Utility Premises	1,021,693	490,179	531,514	0	531,514	10	10%	53,151	42,448	10,704
1980	System Supervisor Equipment	293,582	293,582	0	0	0	5	20%	0	0	0
1985	Miscellaneous Fixed Assets	0		0	0	0		0%	0	0	
1990	Other Tangible Property	0		0	0	0		0%	0	0	
1995	Contributions & Grants	(28,454,846)	(23,602)	(28,431,244)	(930,791)	(28,896,639)	45	2%	(642,148)	(1,156,810)	514,662
etc.			(	0	(	0		0%	0	( ),)	0
				0		0		0%	0		0
	Total	134.016.940	34.905.907	99.111.032	16.497.773	107.359.919			5.226.465	5,270,203	(43,738)

# TABLE 4-43 – APPENDIX 2-CA - 2011 CGAAP: DEPRECIATION AND AMORTIZATION EXPENSE

Account	Description	Opening NBV as at Jan 1, 2011 <sup>5</sup>	Additions	Average Remaining Life of Opening NBV <sup>4</sup>	Years (new additions only) <sup>3</sup>	Rate on New	Depreciation Expense on Opening NBV	Depreciation Expense on Additions <sup>1</sup>	2011 Depreciation Expense	2011 Depreciation Expense per Appendix 2-B Fixed Assets, Column K	Variance <sup>2</sup>	Depreciation Expense on 2011 Full Year Additions	Less Depreciation Expense on Assets Fully Depreciated during the year (o)	2011 Full Year Depreciation <sup>6</sup>
		(a)	(d)	(i)	(f)	(g) = 1 / (f)	(j) = (a) / (i)	(h)=((d)*0.5)/(f)	(k) = (j) + (h)	(I)	(m) = (k) - (l)	(n) = (d)/(f)	(0)	(p) = (j) + (n) - (o)
1611	Computer Software (Formally known as Account 1925)	57.768	395.951	1.5	3	33.33%	38.512	65.992	104.504	103.908	595	131.984	40.490	130.006
1612	Land Rights (Formally known as Account 1906)	0	0			0.00%	0	0	0	0	0	0	0	0
1805	Land	293.875	0			0.00%	0	0	0	0	0	0	0	0
	Buildings	360,134	0	39.2	62	1.61%	9,198	0	9,198	10.360	(1,162)	0	(5.037)	14,236
1810	Leasehold Improvements	0	0			0.00%	0	0	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0	0			0.00%	0	0	0	0	0	0	0	0
	Distribution Station Equipment <50 kV	5.311.308	2,744,991	17.0	45	2.22%	312.430	30.500	342.930	341.272	1.658	61.000	118.521	254.909
1825	Storage Battery Equipment	0	0			0.00%	0	0	0	0	0		0	0
1830	Poles, Towers & Fixtures	15.393.255	0	22.0	45	2.22%	699.693	0	699.693	0	699.693	0	313.314	386.379
1835	Overhead Conductors & Devices	7.375.320	3.040.545	23.0	55	1.82%	320,666	27.641	348.307	1.631.888	(1.283.581)	55.283	172,774	203,174
	Underground Conduit	0	0,010,010	20.0		0.00%	020,000	0		1,001,000	(1,200,001)		0	200,114
1845	Underground Conductors & Devices	20.570.108	3,317,591	22.0	38	2.63%	935.005	43.653	978.657	2,310,962	(1,332,305)	87.305	359.190	663,120
1850	Line Transformers	20,271,338	68,951	20.0	40	2.50%	1.013.567	43,055	1.014.429	361.878	652.551	1.724	372,956	642,335
1855	Services (Overhead & Underground)	20,271,330	00,951	20.0	40	0.00%	1,013,307	002	1,014,429	301,078	052,551		0	042,333
	Meters	3.275.990	0	14.0	30	3.33%	233.999	0	233.999	1,197,416	(963,417)	0	(478,728)	712,727
	Meters (Smart Meters)	190.564	6,780,571	9.0	10	10.00%	21,174	339.029	360.202	1,137,410	360.202	678.057	711.630	(12,399
1905	Land	190,564	0,760,571	9.0	10	0.00%	21,174	339,029	360,202	0	300,202	,	/11,030	(12,399
	Buildings & Fixtures	0	0			0.00%	0	0		0	0		0	0
1908	Leasehold Improvements	169.642	334.285	3.0	5	20.00%	56.547	33.428	89.976	20,314	69.662	66.857	(27,206)	150.610
	Office Furniture & Equipment (10 years)	109,042	334,265	3.0	5	0.00%	56,547	33,420	69,976	20,314	09,002	00,057	(27,200)	150,610
1915	Office Furniture & Equipment (10 years)	43.621	10.958	2.0	5	20.00%	21.810	1.096	22,906	13.588	9.318	2,192	15.594	8.408
1915	Computer Equipment - Hardware	43,621	37.421	3.0	4	25.00%	39.898	4,678	44.575	53,177		9,355	49.253	-,
1920	Computer Equipment - Hardware Computer EquipHardware(Post Mar. 22/04)		37,421	3.0	4	25.00%	39,898	4,6/8	44,575		(8,601) 0	-,		0
		(57,524)	-		-			0	0	0	0		(1,209)	1,209
1920	Computer EquipHardware(Post Mar. 19/07)	0	0		4	25.00%	0						0	0
1930	Transportation Equipment	527,400	585,197	4.0	10	10.00%	131,850	29,260	161,110	179,915	(18,805)	58,520	89,424	100,945
	Stores Equipment	403	0	4.0	7	14.29%	101	0	101	115	(14)	0	(187)	288
1940	Tools, Shop & Garage Equipment	670,450	110,102	6.0	7	14.29%	111,742	7,864	119,606	93,569	26,037	15,729	(83,536)	211,007
1945	Measurement & Testing Equipment	212,545	0	5.0	7	14.29%	42,509	0	42,509	56,592	(14,083)	0	30,099	12,410
1950	Power Operated Equipment	0	0			0.00%	0	0		0	0		0	0
1955	Communications Equipment	22,797	2,000	3.0	10	10.00%	7,599	100	7,699	9,611	(1,911)	200	2,438	5,361
1955	Communication Equipment (Smart Meters)	0	0		10	10.00%	0	0	0	0	0	0	0	0
1960	Miscellaneous Equipment	35,809	0	5.0	10	10.00%	7,162	0		0	7,162	0	(9,087)	16,249
1970	Load Management Controls Customer Premises	70,871	0	10.0	20	5.00%	7,087	0		0	7,087	0	7,087	0
1975	Load Management Controls Utility Premises	321,804	0	12.0	20	5.00%	26,817	0		42,448	(15,631)	0	9,323	17,494
1980	System Supervisor Equipment	(1)	0			0.00%	0	0	-	0	0	-	0	0
	Miscellaneous Fixed Assets	0	0			0.00%	0	0	-	0	0		0	0
	Other Tangible Property	0	0			0.00%	0	0	0	0	0		0	0
1995	Contributions & Grants	(22,617,001)	(930,791)	20.0	45	2.22%	(1,130,850)	(10,342)	(1,141,192)	(1,156,810)	15,617	(20,684)	(596,796)	(554,738
etc.		0	0			0.00%	0	0			0			0
						0.00%	0	0	0		0	0		0
	Total	52,620,170	16,497,773				2,906,516	573,760	3,480,276	5,270,203	(1,789,927)	1,147,520	1,090,306	2,963,730
	Depreciation exp. adj. from gain or loss on the re	tirement of acc	ets (nool of like	accoto)				•	0			•		· · · · ·

# TABLE 4-44 – APPENDIX 2-CB - 2011 MIFRS DEPRECIATION AND AMORTIZATION EXPENSE

Total

3,480,276

Account	Description	Additions	Years (new additions only)	Depreciation Rate on New Additions	2012 Depreciation Expense <sup>1</sup> (h)=2011 Full Year Deprecation +	2012 Depreciation Expense per Apppendix 2-B Fixed Assets, Column K	Variance <sup>2</sup>	Depreciation Expense on 2012 Full Year Additions	Less Depreciation Expense on Assets Fully Depreciated during the year (o)	2012 Full Year Depreciation <sup>3</sup> (p) = 2011 Full Year Depreciation
		(d)	(f)	(g) = 1 / (f)	((d)*0.5)/(f)	(I)	(m) = (h) - (l)	(n)=((d))/(f)		+ (n) - (o)
1611	Computer Software (Formally known as	450 445		00.000/		000 505		150.000	0.404	
4005	Account 1925)	459,115	3	33.33% 0.00%	206,525	206,525	0	153,038 0	2,464	280,580
1805	Land	0	62		0 14.236	14,236	0	0	0	v
1808	Buildings		62	1.61%	1			-		14,236
1810 1815	Leasehold Improvements Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
		-	45			304,486	0	-	52	0
1820	Distribution Station Equipment <50 kV Storage Battery Equipment	4,461,905	45	2.22%	304,486	304,486	0	99,153 0	52	354,010
1825 1830	Poles, Towers & Fixtures	1,593,281	45	2.22%	404,082	404,082	0	35.406	0	421,786
		806.545	45 55	1.82%		210,507	0	35,406	111	
1835 1840	Overhead Conductors & Devices Underground Conduit	806,545	55	0.00%	210,507	210,507	0	14,004	0	217,728
1845	Underground Conductors & Devices	878,003	38	2.63%	674,673	674,673	0	23,105	1,981	684,244
1845		1.865.329	40	2.63%	665.651	665,651	0	46,633	1,981	684,244
1850	Line Transformers Services (Overhead & Underground)	1,805,329	40	2.50%	000,000	0	0	40,033	0	688,968
1860	Meters	0	30	3.33%	712,727	712,727	0	0	609	712,118
1860	Meters (Smart Meters)	247,975	10	10.00%	0	0	0	24.798	009	12,399
1905	Land	247,975	10	0.00%	0	0	0	24,790	0	12,399
1905	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1908	Leasehold Improvements	200.046	5	20.00%	170.615	170,615	0	40.009	1,402	189,218
1910	Office Furniture & Equipment (10 years)	200,046	5	20.00%	170,615	170,015	0	40,009	978	(978)
1915	Office Furniture & Equipment (10 years)	6,911	10	10.00%	8,754	8,754	0	691	9/0	9,099
1915	Computer Equipment - Hardware	0,911	4	25.00%	0,734	0,734	0	091	3,008	(3.008)
1920	Computer Equipment - Hardware Computer EquipHardware(Post Mar. 22/04)	129,776	4	25.00%	17,430	17,430	0	32.444	3,000	33,652
1920	Computer EquipHardware(Post Mar. 22/04) Computer EquipHardware(Post Mar. 19/07)	129,110	4	25.00%	0	17,430	0	32,444		33,032
1920	Transportation Equipment	1.405.317	10	10.00%	171.211	171.211	0	140.532	0	241.477
1930	Stores Equipment	1,405,517	7	14.29%	288	288	0	140,532	288	241,477
1935	Tools, Shop & Garage Equipment	84.728	7	14.29%	217.059	217,059	0	12.104	42.543	180.567
1940	Measurement & Testing Equipment	14.905	7	14.29%	13.475	13.475	0	2.129	42,545	14.539
1945	Power Operated Equipment	14,905	/	0.00%	13,475	13,475	0	2,129	0	14,539
1955	Communications Equipment	147,267	10	10.00%	12,724	12,724	0	14,727	19	20,068
1955	Communication Equipment (Smart Meters)	147,207	10	10.00%	12,724	12,724	0	14,727	19	20,000
1955	Miscellaneous Equipment	62,078	10	10.00%	19,353	19,353	0	6,208	3,313	19,144
1900	Load Management Controls Customer Premises	02,078	20	5.00%	19,333	19,555	0	0,208	0	13,144
1970	Load Management Controls Customer Premises	0	20	5.00%	17,494	17,494	0	0	0	17,494
1975	System Supervisor Equipment	0	20	0.00%	17,494	17,494	0	0	0	17,494
1985	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1985	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1990	Contributions & Grants	(1,271,166)	45	2.22%	(568,862)	(572,038)	3,176	(28,248)	(642)	(582,344)
1995			45	2.22%					· · · · ·	
L	Total	11,092,013			3,272,427	3,269,251	3,176	617,394	56,126	3,524,998
	Depreciation exp. adj. from gain or loss on the re	urement of ass	ets (pool of I	ke assets)	(3,176)					

#### TABLE 4-45 – APPENDIX 2-CC - 2012 MIFRS DEPRECIATION AND AMORTIZATION EXPENSE

Total

3,269,251

Account	Description	Additions	Years (new additions only)	Depreciation Rate on New Additions	2013 Depreciation Expense <sup>1</sup> (h)=2012 Full Year Deprecation +	2013 Depreciation Expense per Apppendix 2-B Fixed Assets, Column K	Variance <sup>2</sup>	Depreciation Expense on 2013 Full Year Additions	Less Depreciation Expense on Assets Fully Depreciated during the year	2013 Full Year Depreciation <sup>3</sup> (p) = 2012 Full Year Depreciation
		(d)	(f)	(g) = 1 / (f)	((d)*0.5)/(f)	(I)	(m) = (h) - (l)	(n)=((d))/(f)	(o)	+ (n) - (o)
1611	Computer Software (Formally known as Account 1925)	377,372	3	33.33%	343,476	366.622	(23,146)	125,791	0	406,371
1612	Land Rights (Formally known as Account 1906)	· · · · ·								
-	<b>3</b> ( )	0		0.00%	0	0	0	0	0	0
1805	Land	0		0.00%	0	0	0	0	0	0
1808	Buildings	0	62	1.61%	14,236	14,197	39	0	0	14,236
1810	Leasehold Improvements	0		0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
1820	Distribution Station Equipment <50 kV	3,998	45	2.22%	354,055	322,548	31,507	89	0	354,099
1825	Storage Battery Equipment	0		0.00%	0	0	0	0	0	0
1830	Poles, Towers & Fixtures	4,590,574	45	2.22%	472,792	481,215	(8,423)	102,013	0	523,798
1835	Overhead Conductors & Devices	1,587,521	55	1.82%	232,160	268,031	(35,871)	28,864	0	246,592
1840	Underground Conduit	0		0.00%	0	0	0	0	0	0
1845	Underground Conductors & Devices	2,500,792	38	2.63%	717,149	803,428	(86,279)	65,810	220	749,834
1850	Line Transformers	2,370,264	40	2.50%	718,596	738,775	(20,179)	59,257	0	748,225
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0	0	0
1860	Meters	57,203	30	3.33%	713,072	0	713,072	1,907	491	713,534
1860	Meters (Smart Meters)	514,823	10	10.00%	38,140	747,565	(709,425)	51,482		63,881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1910	Leasehold Improvements	18,265	5	20.00%	191,044	153,806	37,238	3,653	39,781	153,090
1915	Office Furniture & Equipment (10 years)	0	10	0.00%	(978)	0	(978)	0	3,777	(4,754)
1915	Office Furniture & Equipment (5 years)	31,131	10	10.00%	10,656	9,661	995	3,113	44.004	12,213
1920 1920	Computer Equipment - Hardware	241,584	4	25.00% 25.00%	27,190 33.652	86,794	(59,604) 33.652	60,396	11,294	46,093 33.652
	Computer EquipHardware(Post Mar. 22/04)					0		0		
1920 1930	Computer EquipHardware(Post Mar. 19/07)	0	4	25.00% 10.00%	0	0	0	0 1.754	2,470	0
1930	Transportation Equipment	17,542	10	14.29%	242,354	274,279	(31,925)	1,754	3,470	239,761
1935	Stores Equipment	112.253	7	14.29%	188,586	200.143	÷	16,036	55,988	140,615
1940	Tools, Shop & Garage Equipment Measurement & Testing Equipment	112,253	7	14.29%	188,586	200,143	(11,557) 1.117	2.738		
1945	Power Operated Equipment	19,169	/	0.00%	15,909	14,792	1,117	2,738	0	17,278
1950	Communications Equipment	4,280	10	10.00%	20,282	20,482	(200)	428	4,628	15,868
1955	Communications Equipment (Smart Meters)	4,280	10	10.00%	20,282	20,482	(200)	428	4,020	13,888
1955	Miscellaneous Equipment	0	10	10.00%	19,144	19,187	(43)	0	6.430	12,714
1960	Load Management Controls Customer Premises	0	20	5.00%	19,144	19,187	(43) 0	0	0,430	12,714
1970	Load Management Controls Utility Premises	0	20	5.00%	17,494	17,447	47	0	0	17,494
1975	System Supervisor Equipment	0	20	0.00%	0	0		0	0	0
1985	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1985	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1995	Contributions & Grants	(1.699.267)	45	2.22%	(601.225)	(687,172)	85.947	(37.761)	(1.934)	(618,172)
etc.		(1,000,207)	40	0.00%	001,223)	(007,172)	03,347	(37,701)	(1,004)	010,172)
610.				0.00%	0		0	0		0
				0.0070	v					· · · ·
	Total	10.747.504			3.767.783	3.851.800	(84.017)	485.570	124.146	3.886.421

3,851,800

#### TABLE 4-46 – APPENDIX 2-CD – 2013 MIFRS DEPRECIATION AND AMORTIZATION EXPENSE

Total

Account	Description	Additions	Years (new additions only)	Depreciation Rate on New Additions	2014 Depreciation Expense <sup>1</sup> (h)=2013 Full Year Depreciation +	2014 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance <sup>2</sup>	Depreciation Expense on 2014 Full Year Additions	Less Depreciation Expense on Assets Fully Depreciated during the year	2014 Full Year Depreciation <sup>3</sup> (p) = 2013 Full Year Depreciation
		(d)	(f)	(g) = 1 / (f)	((d)*0.5)/(f)		(m) = (h) - (l)	(n)=((d))/(f)	(o)	+ (n) - (o)
1611	Computer Software (Formally known as Account 1925)	354,000	3	33.33%	465,371	406,214	59,157	118,000	89,202	435,169
1612	Land Rights (Formally known as Account 1906)	0		0.00%	0	0	0	0	0	0
1805	Land	0		0.00%	0	0	0	0	0	0
1808	Buildings	0	62	1.61%	14,236	14,197	39	0	0	14,236
1810	Leasehold Improvements	0		0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
1820	Distribution Station Equipment <50 kV	1,083,303	45	2.22%	366,136	390,557	(24,421)	24,073	4,735	373,437
1825	Storage Battery Equipment	0		0.00%	0	0	0	0	0	0
1830	Poles, Towers & Fixtures	2,927,293	45	2.22%	556,324	554,572	1,752	65,051	16,001	572,848
1835	Overhead Conductors & Devices	2,386,694	55	1.82%	268,289	252,090	16,199	43,394	8,872	281,114
1840	Underground Conduit	0		0.00%	0	0	0	0	0	0
1845	Underground Conductors & Devices	3,626,126	38	2.63%	797,546	817,879	(20,332)	95,424	9,292	835,967
1850	Line Transformers	490,969	40	2.50%	754,362	774,738	(20,376)	12,274	2,174	758,325
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0	0	0
1860	Meters	275,544	30	3.33%	718,126	776,351	(58,225)	9,185	552	722,167
1860	Meters (Smart Meters)	0	10	10.00%	63,881	0	63,881	0		63,881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1910	Leasehold Improvements	180,000	5	20.00%	171,090	133,851	37,238	36,000	4,687	184,402
1915	Office Furniture & Equipment (10 years)	0		0.00%	(4,754)	0	(4,754)	0	1,382	(6,136)
1915	Office Furniture & Equipment (5 years)	20,000	10	10.00%	13,213	7,441	5,772	2,000		14,213
1920	Computer Equipment - Hardware	186,000	4	25.00%	69,343	128,947	(59,604)	46,500	0	92,593
1920	Computer EquipHardware(Post Mar. 22/04)	0	4	25.00%	33,652	0	33,652	0		33,652
1920	Computer EquipHardware(Post Mar. 19/07)	0	4	25.00%	0	0	0	0		0
1930	Transportation Equipment	52,906	10	10.00%	242,406	274,109	(31,703)	5,291	0	245,051
1935	Stores Equipment	0	7	14.29%	0	0	0	0	0	0
1940	Tools, Shop & Garage Equipment	136,397	7	14.29%	150,358	176,452	(26,094)	19,485	42,816	117,284
1945	Measurement & Testing Equipment	9,933	7	14.29%	17,987	16,817	1,171	1,419	41	18,656
1950	Power Operated Equipment	0		0.00%	0	0	0	0	0	0
1955	Communications Equipment	0	10	10.00%	15,868	15,854	14	0	0	15,868
1955	Communication Equipment (Smart Meters)	0	10	10.00%	0	0	0	0		0
1960	Miscellaneous Equipment	0	10	10.00%	12,714	12,757	(43)	0	0	12,714
1970	Load Management Controls Customer Premises	0	20	5.00%	0	0	0	0	0	0
1975	Load Management Controls Utility Premises	0	8	12.50%	17,494	17,447	48	0	0	17,494
1980	System Supervisor Equipment	0		0.00%	0	0	0	0	0	0
1985	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1990	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1995	Contributions & Grants	0	45	2.22%	(618,172)	(706,399)	88,227	0	(80)	(618,092)
etc.				0.00%	0		0	0		0
				0.00%	0		0	0		0
	Total	11,729,165			4,125,470	4,063,873	61,596	478,097	179,674	4,184,844
	Depreciation exp. adj. from gain or loss on the reti	rement of assets	(pool of like	assets)	(61,596)					

Total Depreciation expense to be included in the test year revenue requirement

4,063,873

#### TABLE 4-48 – APPENDIX 2-CE - 2015 MIFRS TEST YEAR DEPRECIATION AND AMORTIZATION EXPENSE

Account	Description	Additions	Years (new additions only)	Depreciation Rate on New Additions	2015 Depreciation Expense 1 (h)=2014 Full Year Depreciation + ((d)*0.5)/(f)	2015 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance $^{2}$	Depreciation Expense on 2015 Full Year Additions	Less Depreciation Expense on Assets Fully Depreciated during the year (o)	2015 Full Year Depreciation <sup>3</sup> (p) = 2014 Full Year Depreciation + (n) - (o)
	Computer Software (Formally known as Account	(d)	(f)	(g) = 1 / (f)	((u) 0.5)/(i)		(m) = (h) - (l)	(n)=((d))/(f)		+ (ii) - (0)
1611	1925)	739,565	3	33.33%	558,430	433,162	125,268	246,522	64,648	617,043
1612	Land Rights (Formally known as Account 1906)	0		0.00%	0	435,102	0	240,322	04,040	017,045
1805	Land	0		0.00%	0	0	0	0	0	0
	Buildings	750.000	62	1.61%	20.284	20.245	39	12.097	2.264	24.068
1810	Leasehold Improvements	0	02	0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
1820	Distribution Station Equipment <50 kV	1.820.436	45	2.22%	393.664	455,298	(61.634)	40.454	5.731	408.160
1825	Storage Battery Equipment	0		0.00%	0	0	0	0	-,	0
1830	Poles. Towers & Fixtures	3.293.076	45	2.22%	609.438	609.644	(206)	73.179	30.276	615.751
1835	Overhead Conductors & Devices	1.806.925	55	1.82%	297.541	352,536	(54,995)	32.853	15,942	298.025
	Underground Conduit	0		0.00%	0	0	0	0		0
1845	Underground Conductors & Devices	2.940.615	38	2.63%	874,659	824,580	50,079	77,385	17,522	895,829
1850	Line Transformers	461,496	40	2.50%	764.094	784.527	(20,434)	11.537	4,245	765,617
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0		0
1860	Meters	612,278	30	3.33%	732,371	805,129	(72,758)	20,409	4,670	737,906
1860	Meters (Smart Meters)	0	10	10.00%	63.881	0	63.881	0		63.881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1910	Leasehold Improvements	247.500	5	20.00%	209.152	171.269	37.883	49,500	0	233.902
1915	Office Furniture & Equipment (10 years)	0		0.00%	(6,136)	0	(6,136)	0	240	(6,377)
1915	Office Furniture & Equipment (5 years)	27,500	10	10.00%	15,588	9,434	6,154	2,750		16,963
1920	Computer Equipment - Hardware	266,511	4	25.00%	125,907	180,849	(54,942)	66,628	8,196	151,026
1920	Computer EquipHardware(Post Mar. 22/04)	0	4	25.00%	33.652	0	33,652	0		33,652
1920	Computer EquipHardware(Post Mar. 19/07)	0	4	25.00%	0	0	0	0		0
1930	Transportation Equipment	420,000	10	10.00%	266,051	293,863	(27,811)	42,000	12,745	274,307
1935	Stores Equipment	0	7	14.29%	0	0	0	0	0	0
1940	Tools, Shop & Garage Equipment	112,216	7	14.29%	125,300	147,464	(22,164)	16,031	17,064	116,252
1945	Measurement & Testing Equipment	11,781	7	14.29%	19,497	18,346	1,151	1,683	2,077	18,261
1950	Power Operated Equipment	0		0.00%	0	0	0	0	0	0
1955	Communications Equipment	0	10	10.00%	15,868	15,854	14	0	0	15,868
1955	Communication Equipment (Smart Meters)	0	10	10.00%	0	0	0	0		0
1960	Miscellaneous Equipment	0	10	10.00%	12,714	12,757	(43)	0	0	12,714
1970	Load Management Controls Customer Premises	0	20	5.00%	0	0	0	0	0	0
1975	Load Management Controls Utility Premises	0	8	12.50%	17,494	58,017	(40,523)	0	0	17,494
1980	System Supervisor Equipment	0		0.00%	0	0	0	0	0	0
1985	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1990	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1995	Contributions & Grants	0	45	2.22%	(618,092)	(701,387)	83,295	0	(6,708)	(611,384)
etc.				0.00%	0		0	0		0
				0.00%	0		0	0		0
	Total	13,509,900			4,531,358	4,491,588	39,771	693,028	178,912	4,698,960
		rement of assets			(39,771)					

Total Depreciation expense to be included in the test year revenue requirement

4,491,588

TABLE 4-49 – APPENDIX 2-CE - 2016 MIFRS TEST YEAR DEPRECIATION AND AMORTIZ	<b>RTIZATION EXPENSE</b>
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Account	Description	Additions	Years (new additions only)	Depreciation Rate on New Additions	2016 Depreciation Expense 1 (h)=2015 Full Year Depreciation +	2016 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance <sup>2</sup>	Depreciation Expense on 2016 Full Year Additions	Less Depreciation Expense on Assets Fully Depreciated during the year	2016 Full Year Depreciation <sup>3</sup> (p) = 2015 Full Year Depreciation
		(d)	(f)	(g) = 1 / (f)	((d)*0.5)/(f)		(m) = (h) - (l)	(n)=((d))/(f)	(0)	+ (n) - (o)
1611	Computer Software (Formally known as Account									
1011	1925)	445,026	3	33.33%	691,214	502,319	188,895	148,342	63,627	701,759
1612	Land Rights (Formally known as Account 1906)	0		0.00%	0	0	0	0	0	0
1805	Land	0		0.00%	0	0	0	0	0	
1808	Buildings	1,000,000	62	1.61%	32,133	32,094	39	16,129	0	
1810	Leasehold Improvements	0		0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
1820	Distribution Station Equipment <50 kV	2,209,912	45	2.22%	432,715	503,368	(70,653)	49,109	8,041	449,229
1825	Storage Battery Equipment	0		0.00%	0	0	0	0		0
1830	Poles, Towers & Fixtures	2,465,328	45	2.22%	643,144	664,493	(21,349)	54,785	39,578	630,959
1835	Overhead Conductors & Devices	1,330,295	55	1.82%	310,118	383,286	(73,168)	24,187	20,703	301,509
1840	Underground Conduit	0		0.00%	0	0	0	0		0
1845	Underground Conductors & Devices	2,293,927	38	2.63%	926,012	883,051	42,962	60,366	24,161	932,035
1850	Line Transformers	403,769	40	2.50%	770,664	793,616	(22,952)	10,094	5,889	769,822
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0		0
1860	Meters	615,546	30	3.33%	748,165	849,076	(100,911)	20,518	7,825	750,599
1860	Meters (Smart Meters)	0	10	10.00%	63,881	0	63,881	0		63,881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1910	Leasehold Improvements	90,000	5	20.00%	242,902	171,591	71,312	18,000	42,418	209,485
1915	Office Furniture & Equipment (10 years)	0		0.00%	(6,377)	0	(6,377)	0	0	(6,377)
1915	Office Furniture & Equipment (5 years)	10,000	10	10.00%	17,463	11,069	6,394	1,000		17,963
1920	Computer Equipment - Hardware	172,405	4	25.00%	172,576	211,296	(38,720)	43,101	16,222	177,905
1920	Computer EquipHardware(Post Mar. 22/04)	0	4	25.00%	33,652	0	33,652	0		33,652
1920	Computer EquipHardware(Post Mar. 19/07)	0	4	25.00%	0	0	0	0		0
1930	Transportation Equipment	415,000	10	10.00%	295,057	324,118	(29,061)	41,500	0	315,807
1935	Stores Equipment	0	7	14.29%	0	0	0	0	0	0
1940	Tools, Shop & Garage Equipment	113,630	7	14.29%	124,368	121,070	3,299	16,233	5,867	126,618
1945	Measurement & Testing Equipment	62,162	7	14.29%	22,702	21,581	1,120	8,880	100	27,042
1950	Power Operated Equipment	0		0.00%	0	0	0	0	0	0
1955	Communications Equipment	0	10	10.00%	15,868	15,854	14	0	0	15,868
1955	Communication Equipment (Smart Meters)	0	10	10.00%	0	0	0	0		0
1960	Miscellaneous Equipment	0	10	10.00%	12,714	11,074	1,640	0	0	12,714
1970	Load Management Controls Customer Premises	0	20	5.00%	0	0	0	0	0	0
1975	Load Management Controls Utility Premises	0	8	12.50%	17,494	46,497	(29,003)	0	45,562	(28,068)
1980	System Supervisor Equipment	0		0.00%	0	0	0	0	0	0
1985	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1990	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1995	Contributions & Grants	0	45	2.22%	(611,384)	(698,115)	86,731	0	(19)	(611,365)
etc.				0.00%	0		0	0		0
				0.00%	0		0	0		0
	Total	\$ 11,627,000			4,955,083	4,847,338	107,745	512,246	279,973	4,931,233
	Depreciation exp. adj. from gain or loss on the reti				(107,745)	. ,				

Depreciation exp. adj. from gain or loss on the retirement of assets (pool of like assets) Total Depreciation expense to be included in the test year revenue requirement

4,847,338

TABLE 4-JU - AFFENDIA 2-OL - 2017 WIII ING TEGT TEAR DEFRECIATION AND AWORTIZATION EAFENGE	TABLE 4-50 – APPENDIX 2-CE -	2017 MIFRS Test Year Depreciation and a	AMORTIZATION EXPENSE
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Account	Description	Additions (d)	Years (new additions only) (f)	Depreciation Rate on New Additions (q) = 1 / (f)	2017 Depreciation Expense 1 (h)=2016 Full Year Depreciation + ((d)*0.5)/(f)	2017 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance <sup>2</sup> (m) = (h) - (l)	Depreciation Expense on 2017 Full Year Additions (n)=((d))/(f)	Less Depreciation Expense on Assets Fully Depreciated during the year (o)	2017 Full Year Depreciation <sup>3</sup> (p) = 2012 Full Year Depreciation + (n) - (o)
	Computer Software (Formally known as Account	(u)	()	(g) = 17(1)	((u) 0.5)/(i)		(11) = (1) - (1)	(n)=((a))/(i)		+ (ii) - (0)
1611	1925)	135,847	3	33.33%	724,400	476,505	247,895	45,282	0	747,041
1612	Land Rights (Formally known as Account 1906)	0	0	0.00%	124,400	0	241,000		0	0
1805	Land	0		0.00%	0	0	0	0	0	0
1808	Buildings	0	62	1.61%	40,197	40,158	39	0	0	40,197
1810	Leasehold Improvements	0		0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
1820	Distribution Station Equipment <50 kV	3,752,553	45	2.22%	490,924	576,258	(85,334)	83,390	9,681	522,938
1825	Storage Battery Equipment	0		0.00%	0	0	0	0		0
1830	Poles, Towers & Fixtures	2,513,403	45	2.22%	658,885	715,642	(56,757)	55,853	43,827	642,985
1835	Overhead Conductors & Devices	1,678,904	55	1.82%	316,771	415,322	(98,550)	30,526	23,041	308,993
1840	Underground Conduit	0		0.00%	0	0	0	0		0
1845	Underground Conductors & Devices	2,343,596	38	2.63%	962,872	933,285	29,586	61,674	30,968	962,740
1850	Line Transformers	427,447	40	2.50%	775,165	801,198	(26,032)	10,686	6,931	773,577
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0		0
1860	Meters	748,515	30	3.33%	763,074	898,798	(135,724)	24,951	11,694	763,855
1860	Meters (Smart Meters)	0	10	10.00%	63,881	0	63,881	0		63,881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1910	Leasehold Improvements	45,000	5	20.00%	213,985	127,163	86,822	9,000	15,510	202,975
1915	Office Furniture & Equipment (10 years)	0		0.00%	(6,377)	0	(6,377)	0	1	(6,378)
1915	Office Furniture & Equipment (5 years)	5,000	10	10.00%	18,213	11,387	6,825	500	00.400	18,463
1920 1920	Computer Equipment - Hardware Computer EquipHardware(Post Mar. 22/04)	98,267	4	25.00%	190,189 33.652	198,711 0	(8,522)	24,567	30,198	172,274
		0	4	25.00% 25.00%	33,652	-	33,652 0	0		33,652
1920 1930	Computer EquipHardware(Post Mar. 19/07) Transportation Equipment	440,000	4	25.00%	337,807	0 335,065	2,741	44,000	172	0 359,635
1930	Stores Equipment	440,000	7	14.29%	337,807	335,005	2,741	44,000	0	359,635
1940	Tools, Shop & Garage Equipment	111,444	7	14.29%	134,578	117,558	17,020	15,921	4,082	138,457
1945	Measurement & Testing Equipment	72,023	7	14.29%	32,186	23,646	8.541	10,289	155	37,176
1950	Power Operated Equipment	0		0.00%	02,100	0	0,041	0	0	0,,,,0
1955	Communications Equipment	0	10	10.00%	15,868	15,854	14	0	0	15,868
1955	Communication Equipment (Smart Meters)	0	10	10.00%	0	0	0	0	· · · · · ·	0
1960	Miscellaneous Equipment	0	10	10.00%	12,714	6,299	6,414	0	738	11,976
1970	Load Management Controls Customer Premises	0	20	5.00%	0	0	0	0	0	0
1975	Load Management Controls Utility Premises	0	8	12.50%	(28,068)	790	(28,858)	0	0	(28,068)
1980	System Supervisor Equipment	0		0.00%	0	0	0	0	0	0
1985	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1990	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1995	Contributions & Grants	0	45	2.22%	(611,365)	(692,669)	81,304	0	(4)	(611,361)
etc.				0.00%	0		0	0		0
				0.00%	0		0	0		0
	Total	\$ 12,372,000			5,139,552	5,000,972	138,580	416,638	176,995	5,170,876
	Depreciation exp. adj. from gain or loss on the reti	rement of assets	(pool of like	assets)	(138,580)					

Depreciation exp. adj. from gain or loss on the retirement of assets (pool of like assets) Total Depreciation expense to be included in the test year revenue requirement

5,000,972

TABLE 4-51 – APPENDIX 2-CE– 2018 MIFRS TEST YEAR DEPRECIATION AND AMORTIZATION EXPENSE
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Account	Description	Additions (d)	Years (new additions only) (f)	Depreciation Rate on New Additions (g) = 1 / (f)	2018 Depreciation Expense 1 (h)=2017 Full Year Depreciation + ((d)*0.5)/(f)	2018 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance <sup>2</sup> (m) = (h) - (l)	Depreciation Expense on 2018 Full Year Additions (n)=((d))/(f)	Less Depreciation Expense on Assets Fully Depreciated during the year (o)	2018 Full Year Depreciation <sup>3</sup> (p) = 2012 Full Year Depreciation + (n) - (o)
1611	Computer Software (Formally known as Account 1925)					057.057				
1612		242,233	3	33.33%	787,413	357,257 0	430,156 0	80,744	0	827,785
1805	Land Rights (Formally known as Account 1906) Land	0		0.00%	0		0	0	0	0
1808	Buildings	0	62	1.61%	40,197	40,158	39	0	0	40.197
1808	Leasehold Improvements	0	62	0.00%	40,197	40,158	39	0	0	
		0		0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV		45						-	0
1820	Distribution Station Equipment <50 kV	1,509,126	45	2.22%	539,706 0	640,394 0	<u>(100,688)</u> 0	33,536	11,317	545,157
1825	Storage Battery Equipment	<b>v</b>				-	-	÷		0
1830	Poles, Towers & Fixtures	2,768,562	45 55	2.22%	673,747	765,551	(91,804)	61,524	52,281	652,228
1835	Overhead Conductors & Devices	1,960,089	55	1.82%	326,812	452,569	(125,756)	35,638	27,699	316,932
1840	Underground Conduit	0		0.00%	0	0	0	0	0	0
1845	Underground Conductors & Devices	4,137,983	38	2.63%	1,017,187	1,008,014	9,173	108,894	38,192	1,033,442
1850	Line Transformers	467,856	40	2.50%	779,425	808,842	(29,417)	11,696	8,636	776,637
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0	0	0
1860	Meters	602,576	30	3.33%	773,898	949,960	(176,062)	20,086	15,576	768,365
1860	Meters (Smart Meters)	0	10	10.00%	63,881	0	63,881	0	-	63,881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	-	0	0	0	0
1910	Leasehold Improvements	45,000	5	20.00%	207,475	118,827	88,648	9,000	1,827	210,148
1915	Office Furniture & Equipment (10 years)	0		0.00%	(6,378)	0	(6,378)	0	0	(6,378)
1915	Office Furniture & Equipment (5 years)	5,000	10	10.00%	18,713	11,848	6,864	500		18,963
1920	Computer Equipment - Hardware	261,160	4	25.00%	204,919	190,191	14,728	65,290	0	237,564
1920	Computer EquipHardware(Post Mar. 22/04)	0	4	25.00%	33,652	0	33,652	0		33,652
1920	Computer EquipHardware(Post Mar. 19/07)	0	4	25.00%	0	0	0	0		0
1930	Transportation Equipment	190,000	10	10.00%	369,135	366,143	2,991	19,000	0	378,635
1935	Stores Equipment	0	7	14.29%	0	0	0	0	0	0
1940	Tools, Shop & Garage Equipment	118,548	7	14.29%	146,924	119,736	27,188	16,935	22,101	133,291
1945	Measurement & Testing Equipment	135,915	7	14.29%	46,884	38,436	8,449	19,416	176	56,416
1950	Power Operated Equipment	0		0.00%	0	0	0	0	0	0
1955	Communications Equipment	31,950	10	10.00%	17,466	17,452	14	3,195	2,646	16,418
1955	Communication Equipment (Smart Meters)	0	10	10.00%	0	0	0	0		0
1960	Miscellaneous Equipment	0	10	10.00%	11,976	6,286	5,689	0	0	11,976
1970	Load Management Controls Customer Premises	0	20	5.00%	0		0	0	0	0
1975	Load Management Controls Utility Premises	0	8	12.50%	(28,068)	0	(28,068)	0	0	(28,068)
1980	System Supervisor Equipment	0		0.00%	0	-	0	0	0	0
1985	Miscellaneous Fixed Assets	0		0.00%	0		0	0	0	0
1990	Other Tangible Property	0		0.00%	0	-	0	0	0	0
1995	Contributions & Grants	0	45	2.22%	(611,361)	(688,593)	77,232	0	(4,923)	(606,437)
etc.				0.00%	0		0	0		0
				0.00%	0		0	0		0
	Total	\$ 12,476,000			5,413,604	5,203,071	210,533	485,456	175,527	5,480,805
	Depreciation exp. adj. from gain or loss on the reti		(pool of like a	assets)	(210,533)					

Depreciation exp. adj. from gain or loss on the retirement of assets (pool of like assets) Total Depreciation expense to be included in the test year revenue requirement

5,203,071

#### TABLE 4-52- APPENDIX 2-CE - 2019 MIFRS TEST YEAR DEPRECIATION AND AMORTIZATION EXPENSE

Account	Description	Additions (d)	Years (new additions only) (f)	Depreciation Rate on New Additions (g) = 1 / (f)	2019 Depreciation Expense 1 (h)=2018 Full Year Depreciation + ((d)*0.5)/(f)	2019 Depreciation Expense per Appendix 2-B Fixed Assets, Column K (I)	Variance <sup>2</sup> (m) = (h) - (l)	Depreciation Expense on 2019 Full Year Additions (n)=((d))/(f)	Less Depreciation Expense on Assets Fully Depreciated during the year (o)	2019 Full Year Depreciation 3
1011	Computer Software (Formally known as Account	(/	(7				(, (.), (.)	(., (.,, ()		
1611	1925)	194,233	3	33.33%	860,158	232,570	627,588	64,744	0	892,530
1612	Land Rights (Formally known as Account 1906)	0		0.00%	0	0	0	0	0	0
1805	Land	0		0.00%	0	0	0	0	0	0
1808	Buildings	0	62	1.61%	40,197	40,158	39	0	0	40,197
1810	Leasehold Improvements	0		0.00%	0	0	0	0	0	0
1815	Transformer Station Equipment >50 kV	0		0.00%	0	0	0	0	0	0
1820	Distribution Station Equipment <50 kV	2,506,205	45	2.22%	573,004	686,847	(113,843)	55,693	15,055	585,795
1825	Storage Battery Equipment	0		0.00%	0	0	0	0	0	0
1830	Poles, Towers & Fixtures	2,553,440	45	2.22%	680,599	817,672	(137,073)	56,743	59,002	649,969
1835	Overhead Conductors & Devices	1,658,650	55	1.82%	332,011	490,445	(158,434)	30,157	31,289	315,800
1840	Underground Conduit	0		0.00%	0	0	0	0	0	0
1845	Underground Conductors & Devices	2,204,630	38	2.63%	1,062,450	1,081,624	(19,174)	58,017	44,755	1,046,703
1850	Line Transformers	439,264	40	2.50%	782,128	816,309	(34,181)	10,982	10,065	777,553
1855	Services (Overhead & Underground)	0		0.00%	0	0	0	0	0	0
1860	Meters	602,200	30	3.33%	778,402	985,260	(206,858)	20,073	28,024	760,414
1860	Meters (Smart Meters)	0	10	10.00%	63,881	0	63,881	0		63,881
1905	Land	0		0.00%	0	0	0	0	0	0
1908	Buildings & Fixtures	0		0.00%	0	0	0	0	0	0
1910	Leasehold Improvements	45,000	5	20.00%	214,648	126,000	88,648	9,000	0	219,148
1915	Office Furniture & Equipment (10 years)	0		0.00%	(6,378)	0	(6,378)	0	0	(6,378)
1915	Office Furniture & Equipment (5 years)	5,000	10	10.00%	19,213	12,214	6,999	500		19,463
1920	Computer Equipment - Hardware	99,160	4	25.00%	249,959	178,667	71,292	24,790	0	262,354
1920	Computer EquipHardware(Post Mar. 22/04)	0	4	25.00%	33,652	0	33,652	0		33,652
1920	Computer EquipHardware(Post Mar. 19/07)	0	4	25.00%	0	0	0	0		0
1930	Transportation Equipment	170,000	10	10.00%	387,135	384,165	2,970	17,000	169	395,466
1935	Stores Equipment	0	7	14.29%	0	0	0	0	0	0
1940	Tools, Shop & Garage Equipment	115,431	7	14.29%	141,536	115,985	25,551	16,490	11,959	137,822
1945	Measurement & Testing Equipment	135,836	7	14.29% 0.00%	66,119	57,291	8,828	19,405	758	75,063
1950 1955	Power Operated Equipment Communications Equipment	31,950	10	10.00%	0 18,015	20,647	(2,632)	3,195	0	19,613
1955	Communications Equipment (Smart Meters)	0	10	10.00%	18,015	20,047	(2,032)	3,195	0	19,013
1955	Miscellaneous Equipment	0	10	10.00%	11,976	6,286	5,689	0	0	-
1960	Load Management Controls Customer Premises	0	20	5.00%	11,976	0,280	5,689	0	0	11,976
1970	Load Management Controls Utility Premises	0	20	12.50%	(28,068)	0	(28,068)	0	0	(28,068)
1975	System Supervisor Equipment	0	8	0.00%	(28,068)	0	(28,068)	0	0	(28,068)
1980	Miscellaneous Fixed Assets	0		0.00%	0	0	0	0	0	0
1985	Other Tangible Property	0		0.00%	0	0	0	0	0	0
1995	Contributions & Grants	0	45	2.22%	(606,437)	(681,444)	75,007	0	(2,867)	(603,571)
etc.		Ŭ	40	0.00%	000,401	(00.,444)	0	0	(2,007)	0
				0.00%	0		0	0		0
	Total	\$ 10,761,000			5,674,200	5,370,697	303,503	386,790	198,211	5,669,384
L	Depreciation exp. adj. from gain or loss on the reti		(nool of like	assats)	(303,503)	5,5. 5,001	000,000	000,100	,	0,000,004

Depreciation exp. adj. from gain or loss on the retirement of assets (pool of like assets) Total Depreciation expense to be included in the test year revenue requirement

5,370,697

# PAYMENTS IN LIEU OF CORPORATE TAXES CALCULATION AND PROPERTY TAX

OPUCN is liable for the payment of PILs on its taxable income computed in accordance with Section 93 of the *Electricity Act* 1998 (Ontario) as amended. OPUCN is exempt from paying income taxes under the *Income Tax Act* (Canada) and the *Corporations Tax Act* (Ontario). OPUCN proposed 2015 Test Year PILs are \$148,243, a decrease of \$100,241 or 40.3% as compared to the 2012 COS Board-Approved allowance for PILs. This reduction is primarily due to increased timing differences between depreciation of assets for accounting purposes and depreciation of assets for income tax purposes (Capital Cost Allowance or "CCA") driven by high levels of capital expenditure. OPUCN follows the guidance as specified in the Board's Accounting Procedures Handbook. Due to significant capital investments in recent years and the disparity between useful asset lives for taxation as compared to accounting, CCA materially exceeds depreciation creating timing differences which reduces the effective amount of PILs payable on taxable income well below the amount otherwise computed by applying the combined federal and Ontario rates of PILs to regulatory income before PILs.

Table 4-53 below provides a summary by year of PILs payable for the years 2011 to 2019.

Year	PILs
2011 Actual	\$1,826,054
2012 Board Approved	\$248,484
2012 Actual	\$69,600
2013 Actual	\$149,015
2014 Bridge Year	\$122,986
2015 Test Year	\$148,243
2016 Test Year	\$303,736
2017 Test Year	\$365,184
2018 Test Year	\$468,774
2019 Test Year	\$485,017

TABLE 4-53 – PILS PAYABLE 2011 – 2019

Tables 4-54 and 4-55 below provide summary details behind the PILs calculations, including adjustments to taxable income, for the years 2011 to 2019.

Description		2011 4 4 1	2012 Board	2012 4 4 1	2012 4 4 1	2014 D 11
Description		2011 Actual	Approved	2012 Actual	2013 Actual	2014 Bridge
Net Income Before Taxes (Return on Equity)		6.053.748	3.045.203	3,563,158	3.063.500	2,428,803
Tax Adjustments to Accounting Income (Detai	l below)	764,481	(1,756,692)	(2,306,945)	(2,130,679)	(1,832,629)
Regulatory Taxable Income	A	6,818,229	1,288,511	1,256,213	932,821	596,175
	_					
Ontario Income Taxes	В	11.75%	11.25%	11.50%	11.50%	11.50%
Income tax payable	C = A * B	801,142	144,957	144,464	107,274	68,560
Ontario Small Business Threshold	D	500,000	500,000	500,000	500,000	500,000
Rate reduction	E	-7.25%	-6.75%	-7.00%	-7.00%	-7.00%
Ontario Small business credit	F = D * E	(36,250)	(33,750)	(35,000)	(35,000)	(35,000)
СМТ	G			30,000		
Ontario Income tax	J = C + F + G	764,892	111,207	139,464	72,274	33,560
			· · · ·			
Combined Tax Rate and PILs						
Effective Ontario Tax Rate	K = J / A	11.22%	8.63%	11.10%	7.75%	5.63%
Federal tax rate	L	16.50%	15.00%	15.00%	15.00%	15.00%
Combined tax rate	M = L + L	27.72%	23.63%	26.10%	22.75%	20.63%
Total Income Taxes	N = A * M	1,889,900	304,484	327,896	212,198	122,986
Investment Tax Credits	0	63,846	0	227,269	59,183	0
Miscellaneous Tax Credits	Р	0	56,000	31,027	4,000	0
Total Tax Credits	Q = O + P	63,846	56,000	258,296	63,183	0
Corporate PILs/Income Tax Provision for Year	R = N - Q	1,826,054	248,484	69,600	149,015	122,986
corporate FILSINCOME Tax FIONSION for fear	R = N - Q	1,020,004	240,404	09,000	149,010	122,900
Corporate PILs/Income Tax Provision Gross Up <sup>1</sup>	S = 1 - M	n/a	76.37%	n/a	n/a	n/a
	T = R / S - N	0	76,888	0	0	0
		4 000 05 1	005 070	00.000	440.045	100.000
Income Tax (grossed-up) -Test Years Only	U = R + T	1,826,054	325,372	69,600	149,015	122,986

# TABLE 4-54 – TAX CALCULATIONS 2011 – 2014

#### Adjustments to Taxable Income

		2012 Board			
Description	2011 Actual	Approved	2012 Actual	2013 Actual	2014 Bridge
Additions to Accounting Income:					
Amortization of tangible assets	5,076,100	3,076,184	3,269,200	3,851,800	4,063,873
Amortization of MIFRS PP&E Deferral Account	0	(218,490)	(237,300)	(199,656)	(218,490)
Reserves from financial statements- balance at end of year	11,053,051	11,243,273	11,632,961	12,047,773	11,868,800
Loss on disposal of assets	0	0	78,877	208,000	302,875
SR&ED expenditures deducted on financial statements	0	0	463,987	136,113	0
Recapture of SR&ED expenditures	217,314	0	0	12,854	0
Apprenticeship Tax Credits	3,045	56,000	31,222	0	0
Other Additions	32,241	0	52,438	98,840	23,144
Total Additions	16,381,751	14,156,967	15,291,385	16,155,723	16,040,202

#### Deductions from Accounting Income:

Capital cost allowance from Schedule 8	4,799,454	5,182,386	5,856,744	6,437,002	5,751,725
Reserves from financial statements - opening balance	10,282,728	10,731,273	11,053,051	11,632,961	12,047,773
SR&ED expenses claimed in year	143,088	0	594,885	0	0
Capitalized Interest	245,400	0	90,821	107,078	73,333
Gain on disposal of assets	141,000	0	0	0	0
ITC's recorded for accounting	0	0	0	111,362	0
Other Deductions	5,600	0	2,829	(2,000)	0
Total Deductions	15,617,270	15,913,659	17,598,330	18,286,402	17,872,831
Tax Adjustments to Accounting Income	764,481	(1,756,692)	(2,306,945)	(2,130,679)	(1,832,629)

Description		2015 Test	2016 Test	2017 Test	2018 Test	2019 Test
Net Income Before Taxes (Return on Equity) Tax Adjustments to Accounting Income (Detail	below)	3,905,649 (3,176,430)	4,198,129 (2,882,143)	4,459,929 (2,912,063)	4,729,159 (2,790,390)	4,955,089 (2,955,025)
Regulatory Taxable Income	Â	729,220	1,315,986	1,547,865	1,938,770	2,000,064
Ontario Income Taxes	В	11.50%	11.50%	11.50%	11.50%	11.50%
Income tax payable	C = A * B	83,860	151,338	178,005	222,959	230,007
Ontario Small Business Threshold	D	500,000	500,000	500,000	500,000	500,000
Rate reduction	E	-7.00%	-7.00%	-7.00%	-7.00%	-7.00%
Ontario Small business credit	F = D * E	(35,000)	(35,000)	(35,000)	(35,000)	(35,000)
CMT	G					
Ontario Income tax	J = C + F + G	48,860	116,338	143,005	187,959	195,007
Combined Tax Rate and PILs						
Effective Ontario Tax Rate	K = J / A	6.70%	8.84%	9.24%	9.69%	9.75%
Federal tax rate	L	15.00%	15.00%	15.00%	15.00%	15.00%
Combined tax rate	M = L + L	21.70%	23.84%	24.24%	24.69%	24.75%
Total Income Taxes	N = A * M	158,243	313,736	375,184	478,774	495,017
Investment Tax Credits	0	5,000	5,000	5,000	5,000	5,000
Miscellaneous Tax Credits	P	5,000	5,000	5,000	5,000	5,000
Total Tax Credits	Q = O + P	10,000	10,000	10,000	10,000	10,000
Corporate PILs/Income Tax Provision for Year	R = N - Q	148,243	303,736	365,184	468,774	485,017
Corporate PILs/Income Tax Provision Gross Up <sup>1</sup>	S = 1 - M	78.30%	76.16%	75.76%	75.31%	75.25%
	T = R / S - N	41,085	95,079	116,836	153,724	159,524
Income Tax (grossed-up) -Test Years Only	U = R + T	189,328	398,815	482,020	622,498	644,541

#### TABLE 4-55 – TAX CALCULATIONS 2015 – 2019

#### Adjustments to Taxable Income

Description	2015 Test	2016 Test	2017 Test	2018 Test	2019 Test
Additions to Accounting Income:					
Amortization of tangible assets	4,491,588	4,847,338	5,000,972	5,203,071	5,370,697
Amortization of MIFRS PP&E Deferral Account	(595,125)	0	0	0	0
Reserves from financial statements- balance at end of year	11,868,800	11,868,800	11,868,800	11,868,800	11,868,800
Loss on disposal of assets	396,446	265,096	182,214	403,265	381,240
SR&ED expenditures deducted on financial statements	0	0	0	0	0
Recapture of SR&ED expenditures	0	0	0	0	0
Apprenticeship Tax Credits	5,000	5,000	5,000	5,000	5,000
Other Additions	23,144	23,144	23,144	23,144	23,144
Total Additions	16,189,853	17,009,379	17,080,130	17,503,280	17,648,881
Deductions from Accounting Income:					
Capital cost allowance from Schedule 8	7,424,149	7,949,389	8,050,060	8,351,536	8,661,772
Reserves from financial statements - opening balance	11,868,800	11,868,800	11,868,800	11,868,800	11,868,800
SR&ED expenses claimed in year	0	0	0	0	0
Capitalized Interest	73,333	73,333	73,333	73,333	73,333
Gain on disposal of assets	0	0	0	0	0
ITC's recorded for accounting	0	0	0	0	0
Other Deductions	0	0	0	0	0
Total Deductions	19,366,283	19,891,522	19,992,193	20,293,669	20,603,906

 Tax Adjustments to Accounting Income
 (3,176,430)
 (2,882,143)
 (2,912,063)
 (2,790,390)
 (2,955,025)

Tables 4-56 to 4-58 provide details behind the calculation of Capita Cost Allowance ("CCA") for each of the years 2011 through to 2019.

2011	Actual									
CCA Class	Description	UCC Opening Balance	Additions	Adjustments	Proceeds of Dispositions	50% Rule	Reduced UCC	CCA %	CCA	UCC Closing Balance
1	Buildings, distr equipment	43,616,635	0	0	0	0	43,616,635	4.0%	1,744,665	41,871,970
8	Office Equip, other machinery & Equip.	900,614	123,060	0	0	61,530	962,144	20.0%	192,429	831,245
10	Rolling stock, computer hardware	514,817	573,908	(44,398)	94,000	239,954	710,373	30.0%	213,112	737,215
10.1	Chevrolet Volt	0	31,500	0	0	15,750	15,750	30.0%	4,725	26,775
12	Computer software	0	395,951	0	0	197,976	197,976	100.0%	197,976	197,976
13	Leasehold Improvements - Straight Line	0	334,285	0	0	167,143	167,143	16.7%	27,857	306,428
42	Fibre optics	38,671	0	0	0	0	38,671	12.0%	4,641	34,030
45	Computer hardware- accelerated	20,859	0	0	0	0	20,859	45.0%	9,387	11,472
45.1	Computers-1921	17,795	0	0	0	0	17,795	55.0%	9,787	8,008
47	Transmission/Distribution equip	22,915,461	14,776,457	0	1,961,287	6,407,585	29,323,046	8.0%	2,345,844	33,384,787
50	Gen. Purpose DP equip/sw	8,426	0	0	0	0	8,426	55.0%	4,634	3,792
52	Gen. Purpose DP equip/sw (pre2009)	0	0	44,398	0	0	44,398	100.0%	44,398	0
Total		68,033,278	16,235,161	0	2,055,287	7,089,937	75,123,215		4,799,454	77,413,698

# TABLE 4-56 -CCA CALCULATIONS 2011 - 2013 ACTUAL

#### 2012 Actual

	71010101									
CCA Class	Description	UCC Opening Balance	Additions	Adjustments	Proceeds of Dispositions	50% Rule	Reduced UCC	CCA %	CCA	UCC Closing Balance
1	Buildings, distr equipment	41,871,970	0	0	0	0	41,871,970	4.0%	1,674,879	40,197,091
8	Office Equip, other machinery & Equip.	831,245	315,890	0	0	157,945	989,190	20.0%	197,838	949,297
10	Rolling stock, computer hardware	737,215	1,437,117	0	0	718,559	1,455,774	30.0%	436,732	1,737,600
10.1	Chevrolet Volt	26,775	0	0	0	0	26,775	30.0%	8,033	18,743
12	Computer software	197,976	459,115	0	0	229,558	427,533	100.0%	427,533	229,558
13	Leasehold Improvements - Straight Line	306,428	200,046	0	0	100,023	406,451	16.7%	65,716	440,758
42	Fibre optics	34,030	0	0	0	0	34,030	12.0%	4,084	29,947
45	Computer hardware- accelerated	11,472	0	0	0	0	11,472	45.0%	5,163	6,310
45.1	Computers-1921	8,008	0	0	0	0	8,008	55.0%	4,404	3,603
47	Transmission/Distribution equip	33,384,787	8,458,926	(204,515)	150,734	4,154,096	37,538,883	8.0%	3,003,111	38,485,354
50	Gen. Purpose DP equip/sw	3,792	129,776	0	0	64,888	68,680	55.0%	37,774	95,794
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		77,413,698	11,000,870	(204,515)	150,734	5,425,068	82,838,766		5,865,265	82,194,054

#### 2013 Actual

CCA Class	Description	UCC Opening Balance	Additions	Adjustments	Proceeds of Dispositions	50% Rule	Reduced UCC	CCA %	CCA	UCC Closing Balance
1	Buildings, distr equipment	40,197,091	0	0	. 0	0	40,197,091	4.0%	1,607,884	38,589,207
8	Office Equip, other machinery & Equip.	949,297	185,308	0	0	92,654	1,041,951	20.0%	208,390	926,215
10	Rolling stock, computer hardware	1,737,600	49,342	0	0	24,671	1,762,271	30.0%	528,681	1,258,261
10.1	Chevrolet Volt	18,742	0	0	0	0	18,742	30.0%	5,622	13,119
12	Computer software	229,558	377,372	0	0	188,686	418,244	100.0%	418,244	188,686
13	Leasehold Improvements - Straight Line	440,758	18,265	0	0	9,133	449,891	16.7%	76,734	382,289
42	Fibre optics	29,946	0	0	0	0	29,946	12.0%	3,593	26,352
45	Computer hardware- accelerated	6,310	0	0	0	0	6,310	45.0%	2,839	3,470
45.1	Computers-1921	3,604	0	0	0	0	3,604	55.0%	1,982	1,622
47	Transmission/Distribution equip	38,485,354	9,622,688	0	0	4,811,344	43,296,698	8.0%	3,463,736	44,644,306
50	Gen. Purpose DP equip/sw	95,794	242,213	0	0	121,107	216,900	55.0%	119,295	218,712
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		82,194,053	10,495,188	0	0	5,247,594	87,441,647		6,437,002	86,252,239

#### TABLE 4-57 – CCA CALCULATIONS 2014 BRIDGE & 2015/6 TEST YEARS

#### 2014 Bridge Year

		UCC								UCC
CCA		Opening			Proceeds of		Reduced			Closing
Class	Description	Balance	Additions	Adjustments	Dispositions	50% Rule	UCC	CCA %	CCA	Balance
1	Buildings, distr equipment	38,589,207	0	0	0	0	38,589,207	4.0%	1,543,568	37,045,639
8	Office Equip, other machinery & Equip.	926,215	166,330	0	0	83,165	1,009,380	20.0%	201,876	890,669
10	Rolling stock, computer hardware	1,258,261	238,906	0	0	119,453	1,377,714	30.0%	413,314	1,083,853
10.1	Chevrolet Volt	13,119	0	0	0	0	13,119	30.0%	3,936	9,183
12	Computer software	188,686	354,000	0	0	177,000	365,686	100.0%	365,686	177,000
13	Leasehold Improvements - Straight Line	382,289	180,000	0	0	90,000	472,289	10.0%	47,229	515,060
42	Fibre optics	26,352	0	0	0	0	26,352	12.0%	3,162	23,190
45	Computer hardware- accelerated	3,470	0	0	0	0	3,470	45.0%	1,562	1,909
45.1	Computers-1921	1,622	0	0	0	0	1,622	55.0%	892	730
47	Transmission/Distribution equip	44,644,306	10,789,929	(73,333)	0	5,358,298	50,002,604	8.0%	3,050,208	52,310,694
50	Gen. Purpose DP equip/sw	218,712	0	0	0	0	218,712	55.0%	120,291	98,420
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		86,252,239	11,729,165	(73,333)	0	5,827,916	92,080,155		5,751,725	92,156,346

#### 2015 Test Year

CCA		UCC Opening			Proceeds of		Reduced			UCC Closing
Class	Description	Balance	Additions	Adjustments	Dispositions	50% Rule	UCC	CCA %	CCA	Balance
1	Buildings, distr equipment	37,045,639	0	0	0	0	37,045,639	4.0%	1,481,826	35,563,813
8	Office Equip, other machinery & Equip.	890,669	151,496	0	0	75,748	966,417	20.0%	193,283	848,881
10	Rolling stock, computer hardware	1,083,853	686,511	0	0	343,256	1,427,108	30.0%	428,132	1,342,232
10.1	Chevrolet Volt	9,183	0	0	0	0	9,183	30.0%	2,755	6,428
12	Computer software	177,000	739,565	0	0	369,782	546,782	100.0%	546,782	369,782
13	Leasehold Improvements - Straight Line	515,060	247,500	0	0	123,750	638,810	10.0%	63,881	698,679
42	Fibre optics	23,190	0	0	0	0	23,190	12.0%	2,783	20,407
45	Computer hardware- accelerated	1,909	0	0	0	0	1,909	45.0%	859	1,050
45.1	Computers-1921	730	0	0	0	0	730	55.0%	401	328
47	Transmission/Distribution equip	52,310,694	11,684,827	(73,333)	0	5,805,747	58,116,441	8.0%	4,649,315	59,272,872
50	Gen. Purpose DP equip/sw	98,420	0	0	0	0	98,420	55.0%	54,131	44,289
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		92,156,346	13,509,900	(73,333)	0	6,718,283	98,874,629		7,424,149	98,168,763

#### 2016 Test Year

CCA		UCC Opening			Proceeds of		Reduced			UCC Closing
Class	Description	Balance	Additions	Adjustments	Dispositions	50% Rule	UCC	CCA %	CCA	Balance
1	Buildings, distr equipment	35,563,813	0	0	0	0	35,563,813	4.0%	1,422,553	34,141,261
8	Office Equip, other machinery & Equip.	848,881	185,792	0	0	92,896	941,777	20.0%	188,355	846,318
10	Rolling stock, computer hardware	1,342,232	587,405	0	0	293,702	1,635,934	30.0%	490,780	1,438,856
10.1	Chevrolet Volt	6,428	0	0	0	0	6,428	30.0%	1,929	4,500
12	Computer software	369,782	445,026	0	0	222,513	592,295	100.0%	592,295	222,513
13	Leasehold Improvements - Straight Line	698,679	90,000	0	0	45,000	743,679	10.0%	74,368	714,311
42	Fibre optics	20,407	0	0	0	0	20,407	12.0%	2,449	17,958
45	Computer hardware- accelerated	1,050	0	0	0	0	1,050	45.0%	472	577
45.1	Computers-1921	328	0	0	0	0	328	55.0%	181	148
47	Transmission/Distribution equip	59,272,872	10,318,778	(73,333)	0	5,122,722	64,395,595	8.0%	5,151,648	64,366,669
50	Gen. Purpose DP equip/sw	44,289	0	0	0	0	44,289	55.0%	24,359	19,930
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		98,168,763	11,627,000	(73,333)	0	5,776,833	103,945,597		7,949,389	101,773,042

# TABLE 4-58 – CCA CALCULATIONS 2017- 2019 TEST YEARS

#### 2017 Test Year

CCA Class	Description	UCC Opening Balance	Additions	Adjustments	Proceeds of Dispositions	50% Rule	Reduced UCC	CCA %	CCA	UCC Closing Balance
1	Buildings, distr equipment	34,141,261	0	0	0	0	34,141,261	4.0%	1,365,650	32,775,610
8	Office Equip, other machinery & Equip.	846,318	188,467	0	0	94,234	940,551	20.0%	188,110	846,675
10	Rolling stock, computer hardware	1,438,856	538,267	0	0	269,134	1,707,990	30.0%	512,397	1,464,726
10.1	Chevrolet Volt	4,500	0	0	0	0	4,500	30.0%	1,350	3,150
12	Computer software	222,513	135,847	0	0	67,924	290,437	100.0%	290,437	67,924
13	Leasehold Improvements - Straight Line	714,311	45,000	0	0	22,500	736,811	10.0%	73,681	685,630
42	Fibre optics	17,958	0	0	0	0	17,958	12.0%	2,155	15,803
45	Computer hardware- accelerated	577	0	0	0	0	577	45.0%	260	318
45.1	Computers-1921	148	0	0	0	0	148	55.0%	81	67
47	Transmission/Distribution equip	64,366,669	11,464,418	(73,333)	0	5,695,543	70,062,212	8.0%	5,604,977	70,152,777
50	Gen. Purpose DP equip/sw	19,930	0	0	0	0	19,930	55.0%	10,962	8,969
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		101,773,042	12,372,000	(73,333)	0	6,149,333	107,922,375		8,050,060	106,021,648

#### 2018 Test Year

		UCC								UCC
CCA		Opening			Proceeds of		Reduced			Closing
Class	Description	Balance	Additions	Adjustments	Dispositions	50% Rule	UCC	CCA %	CCA	Balance
1	Buildings, distr equipment	32,775,610	0	0	0	0	32,775,610	4.0%	1,311,024	31,464,586
8	Office Equip, other machinery & Equip.	846,675	291,413	0	0	145,706	992,381	20.0%	198,476	939,611
10	Rolling stock, computer hardware	1,464,726	451,160	0	0	225,580	1,690,306	30.0%	507,092	1,408,795
10.1	Chevrolet Volt	3,150	0	0	0	0	3,150	30.0%	945	2,205
12	Computer software	67,924	242,233	0	0	121,117	189,040	100.0%	189,040	121,117
13	Leasehold Improvements - Straight Line	685,630	45,000	0	0	22,500	708,130	10.0%	70,813	659,817
42	Fibre optics	15,803	0	0	0	0	15,803	12.0%	1,896	13,907
45	Computer hardware- accelerated	318	0	0	0	0	318	45.0%	143	175
45.1	Computers-1921	67	0	0	0	0	67	55.0%	37	30
47	Transmission/Distribution equip	70,152,777	11,446,193	(73,333)	0	5,686,430	75,839,207	8.0%	6,067,137	75,458,501
50	Gen. Purpose DP equip/sw	8,969	0	0	0	0	8,969	55.0%	4,933	4,036
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		106,021,648	12,476,000	(73,333)	0	6,201,333	112,222,982		8,351,536	110,072,779

#### 2019 Test Year

CCA		UCC Opening			Proceeds of		Reduced			UCC Closing
	Description	Balance	Additions	Adjustments		50% Rule	UCC	CCA %	CCA	Balance
1	Buildings, distr equipment	31,464,586	0	0	0	0	31,464,586	4.0%	1,258,583	30,206,003
8	Office Equip, other machinery & Equip.	939,611	288,218	0	0	144,109	1,083,720	20.0%	216,744	1,011,085
10	Rolling stock, computer hardware	1,408,795	269,160	0	0	134,580	1,543,375	30.0%	463,012	1,214,943
10.1	Chevrolet Volt	2,205	0	0	0	0	2,205	30.0%	661	1,543
12	Computer software	121,117	194,233	0	0	97,117	218,233	100.0%	218,233	97,117
13	Leasehold Improvements - Straight Line	659,817	45,000	0	0	22,500	682,317	10.0%	68,232	636,585
42	Fibre optics	13,907	0	0	0	0	13,907	12.0%	1,669	12,238
45	Computer hardware- accelerated	175	0	0	0	0	175	45.0%	79	96
45.1	Computers-1921	30	0	0	0	0	30	55.0%	16	13
47	Transmission/Distribution equip	75,458,501	9,964,389	(73,333)	0	4,945,528	80,404,028	8.0%	6,432,322	78,917,234
50	Gen. Purpose DP equip/sw	4,036	0	0	0	0	4,036	55.0%	2,220	1,816
52	Gen. Purpose DP equip/sw (pre2009)	0	0	0	0	0	0	100.0%	0	0
Total		110,072,779	10,761,000	(73,333)	0	5,343,833	115,416,612		8,661,772	112,098,673

#### CONSERVATION AND DEMAND MANAGEMENT COSTS

#### **CDM Costs**

Funding for OPUCN's CDM activities is provided through the OPA.

OPUC has not applied to the OEB for a Board-Approved CDM program and is not planning to do so in this Application.

#### Lost Revenue Adjustment Mechanism

OPUCN is not making an LRAM claim for CDM programs at this time.

# APPENDIX 4-1 – ACTUARIAL REPORT ON POST-RETIREMENT BENEFITS AS AT DECEMBER 31, 2013

# K-W ACTUARIAL SERVICES INC.

102 - 515 Riverbend Drive	Phone: (519) 579-1255
Kitchener ON N2K 3S2	Fax: (519) 579-5010

January 23, 2014

Mr. Phil Martin Vice President, Finance and Regulatory Compliance Oshawa Power and Utilities Commission 100 Simcoe Street South Oshawa ON L1H 7M7 sent by email only

Dear Phil:

#### Re: 2013 Report for Accounting Purposes for Oshawa Power and Utilities Commission

As requested, we have prepared extrapolations for 2013 expense purposes. This report covers Oshawa Power and Utilities Commission's (the Company) post-employment benefits plan.

I am pleased to confirm the following:

- a) I am aware that the Company intends to use this work as audit evidence;
- I am a member in good standing with the Canadian Institute of Actuaries (the CIA);
- We have been engaged by the Company's management to prepare the disclosure information;
- My work has been performed in accordance with the standards of the CIA and our understanding of CPA Canada Handbook Section 2461 accounting standards;
- e) The extrapolation includes all employee future benefit plans for which we have been retained.
- f) A materiality level of no higher than \$50,000 has been applied;
- g) No matters have come to my attention between the extrapolation date and the date of this report that would have a material effect on the results;
- I have included the effect of all known substantive commitments in my calculations;
- To the best of my knowledge, there were no events subsequent to the fiscal year end date and prior to the date of the report which would have a material impact on the results of the year-end disclosures.
- J am not aware of any settlements or curtailments during the fiscal period;
- k) The following information outlines the plans and methods used to value them:
  - (i) The December 2012 valuation performed on the plan was based on membership

as summarized	in the fol	llowing tabl	es:		
Age	Ac	tive Employ	vees	Average	Average
Group	Male	Female	Total	Service	Life Ins.
Up to 25	1	0	1	1.2	99,000
25 to 30	4	0	4	1.8	105,000
30 to 35	1	2	3	3.0	125,333
35 to 40	2	2	4	7.6	114,500
40 to 45	9	6	15	10.6	139,067
45 to 50	14	7	21	13.8	131,905
50 to 55	10	б	16	19.0	140,375
55 to 60	4	4	8	17.2	127,375
60 to 65	3	0	3	17.3	134,667
Totals	48	27	75	13.2	131,707
Category 1	26	15	41	20.5	
Category 2	6	4	10	7.4	
Category 3	2	1	3	4.6	
Category 4	7	2	9	2.2	
Category 5	7	5	12	3.4	
Totals	48	27	75	13.2	
Life Option 1	22	13	35		
Life Option 2	2	1	3		
Life Option 3	0	1	1		
Life Option 4	24	12	36		
Totals	48	27	75		

Age	Retired Employees Avera			Average
Group	Male	Female	Total	Life Ins.
55 to 60	1	3	4	32,045
60 to 65	15	7	22	28,444
65 to 70	10	10	20	30,794
70 to 75	6	5	11	31,263
75 to 80	7	1	8	42,537
80 to 85	9	1	10	43,771
85 to 90	2	0	2	49,350
Totals	50	27	77	33,642
Single	3	4	7	
Family	47	23	70	

K-W Actuarial Services Inc.

#### 2013 Oshawa PUC disclosure

2013 Oshawa PUC disclosure

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(ii) Claims for the three years from 2010 through 2012 averaged \$376,421 per year. These average of these claims were divided by the retiree exposure to establish monthly claims cost of:

	Single	Family
Health under 65	222.63	445.26
Health 65 +	90.81	181.62
Dental under 65	99.47	198.94
Dental 65+	34.75	69.50

- (iii) Plan Provisions summary:
  - Life insurance benefits are provided to employees who retire under the following circumstances:
    - Employees who retire under Plan Option 1 receive an insurance benefit of \$2,000 payable on the retiree's death.
    - Employees who retire under Plan Option 2, 3, or 4 receive an insurance benefit equal to 50% of final annual earnings, reducing by 2.5% per year to an ultimate benefit of 25% of final earnings.
  - Supplemental health (drugs, vision, semi-private hospital, and extended health services) and dental benefits are provided to retirees under the following circumstances:
    - Category 1 employees are provided lifetime health and dental benefits; surviving spouses are covered for the survivor's lifetime.
    - Category 2 employees who retire with a minimum of 20 years of continuous service receive lifetime health benefits and dental benefits to age 65; surviving spouses receive lifetime health benefits and dental benefits payable to the employee's age 65.
    - Category 3 employees who retire with a minimum of 25 years of continuous service receive lifetime health benefits and dental

2013 Oshawa PUC disclosure

benefits to age 65; surviving spouses receive lifetime health benefits and dental benefits to the employee's age 65.

- Category 4 employees who retire with at least 25 years of continuous service receive lifetime health benefits and dental benefits to age 65; surviving spouses receive health and dental benefits for two years. Benefits are 80% paid by the Company and 20% paid by the retiree.
- Category 5 employees are not eligible for post-employment health and dental benefits.
- Dispensing fee payments are limited to \$12.99.
- As of the end of 2013, the following number of employees/retirees are eligible under the above Category groups:

Group	Active	Retired
Category 1	40	90
Category 2	10	
Category 3	3	
Category 4	9	
Category 5	9	

- (iv) The following summarizes the assumptions used:
  - Discount rate 4.00% for the extrapolation from January 1, 2013 to December 31, 2013; a rate of 4.75% is used to value benefits as at December 31, 2013. The single discount rate is the rate, rounded to the nearest 0.25%, that duplicates the plan's obligations determined using the Fiera Capital/CIA yield curve as at December 31, 2013.
  - · Returns on invested funds are moot as the plan is not funded.
  - Salary growth rate 3.0% per year.
  - Inflation 2.0% per year.
  - Mortality is on the basis of the 1994 Uninsured Pensioner Mortality Table projected on a generational basis using scale AA.
  - Termination of employment is assumed using the Ontario Light termination rates with no termination after the attainment of age 55.
  - · Age nearest birthday for current age.
  - Retirement is assumed to occur at the later of age 60 and current age plus one year.
  - Health care costs are presumed to increase 8% in the year following the valuation, this rate decreasing each year to an ultimate rate of 4% after 6 years. Similarly, dental costs are presumed to increase 6% after one year, this

2013 Oshawa PUC disclosure

rate reducing to an ultimate rate of 4% over 6 years. The dispensing fee portion of these costs is limited to the current \$12.99 maximum.

- No provision for disability is included.
- The cost method is the accrued benefit method with projected benefits prorated by service.
- Attribution age is the age at which benefits could, with continued future service, become available (i.e. attainment of age 55 and service requirements).
- The following table shows a sample of the mortality and termination rates:

	UP	1994			Light
	Mortali	ty Table	Projection	n Scale AA	Termination
Age	Male	Female	Male	Female	Rate
25	0.000711	0.000313	0.010	0.014	0.100
30	0.000862	0.000377	0.005	0.010	0.056
35	0.000915	0.000514	0.005	0.011	0.032
40	0.001153	0.000763	0.008	0.015	0.022
45	0.001697	0.001046	0.013	0.016	0.017
50	0.002773	0.001536	0.018	0.017	0.012
55	0.004758	0.002466	0.019	0.008	
60	0.008576	0.004773	0.016	0.005	
65	0.015629	0.009286	0.014	0.005	
70	0.025516	0.014763	0.015	0.005	
75	0.040012	0.024393	0.014	0.008	
80	0.066696	0.042361	0.010	0.007	
85	0.104559	0.072836	0.007	0.006	
90	0.164442	0.125016	0.004	0.003	
95	0.251189	0.200229	0.002	0.002	

The attached tables provide details of the 2013 disclosure; 2012 amounts are included for comparison purposes.

Please let me know if you require further information.

Sincerely,

NIA

W.M. (Bill) Loucks, FSA, FCIA Direct 519-804-2894 Att:

K-W Actuarial Services Inc.

	2013 Oshawa PUC disclo			
Oshawa PUC				
Fiscal Year	2012	2013		
Discount rate at start of period	5.60%	4.00%		
Discount rate at end of period	4.00%	4.75%		
Interest rate on assets	N/A	N/A		
EARSL Period	12.02	10.90		
Reconcile Obligation				
Obligation at start of year	13,203,400	10,713,718		
Revaluation	0	0		
Transfer	0	0		
Plan amendments in year	0	0		
Employer current service cost	286,700	189,118		
Member contributions	0	0		
Benefit payments	(495,700)	(345,535)		
Interest on obligation	739,500	425,420		
Obligation at end of year	13,733,900	10,982,721		
Actual obligations at end of year	10,713,718	<u>9,897,792</u>		
(Gain)/Loss recognized at end of year	(3,020,182)	(1,084,929)		
Reconcile Plan Funds				
Asset at start of period	0	(		
Employer contributions	495,700	345,535		
Benefit payments	(495,700)	(345,535)		
Fund earnings	<u>0</u>	<u>(</u>		
Asset at end of period	0	(		
Expense				
Current service cost	286,700	189,118		
Interest on obligation	739,500	425,420		
Interest on assets	0	C		
Amortize transition amount	0	0		
Amortize plan improvements	0	0		
Amortize gains and losses	93,800	<u>(</u>		
Expense	1,120,000	614,538		

2013 Oshawa PUC di				
Oshawa PUC				
Fiscal Year	2012	2013		
Transition obligation (asset)				
Transition amount at start of period	0	0		
Amortization during period	0	<u>0</u>		
Transition amount at end of period	0	0		
Prior service costs				
Unamortized amount at start if period	0	0		
Past service in period	0	0		
Amortization during period	<u>0</u>	<u>0</u>		
Unamortized amount at end of period	0	0		
Actuarial (gains) & losses				
Unamortized amount at start	2,447,700	(666,282)		
10% Window	1,320,300	1,071,400		
Amount subject to amortization	1,127,400	0		
(Gain) or Loss in period	(3,020,182)	(1,084,929)		
Amortization during period	93,800	<u>0</u>		
Unamortized (gain)/loss at end	(666,282)	(1,751,211)		
Balance sheet asset (liability)				
Amount at start of period	(10,755,700)	(11,380,000)		
Expense in period	(1,120,000)	(614,538)		
Employer contribution	495,700	<u>345,535</u>		
Amount at end of period	(11,380,000)	(11,649,003)		
Reconcile funded status				
Benefit obligation at end of period	10,713,718	9,897,792		
Asset value at end of period	<u>0</u>	<u>0</u>		
Funded status - surplus (deficit)	(10,713,718)	(9,897,792)		
Unamortized transition obligation (asset)	0	0		
Unamortized prior service costs	0	0		
Unamortized (gains) & losses	(666,282)	<u>(1,751,211)</u>		
Balance sheet asset (liability)	(11,380,000)	(11,649,003)		

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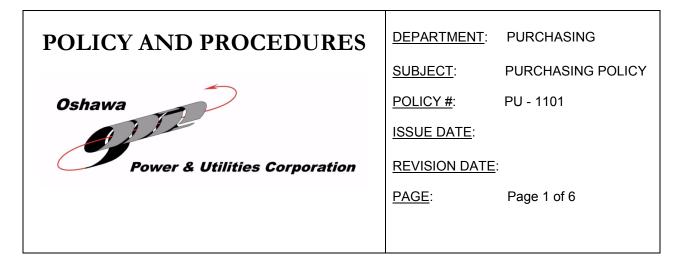
	2013 Osh	awa PUC disclos
Oshawa PUC		
Fiscal Year	2012	2013
Sensitivity Testing:		
Obligation at end of fiscal year:		
Obligation using current discount rate	10,713,718	9,897,792
Change with 1.0% lower rate	1,791,469	1,499,720
Change with 1.0% higher rate	(1,409,742)	(1,195,901)
Estimated expense for next year:		
Expense using current discount rate	614,538	557,284
Change with 1.0% lower rate	1,341	3,329
Change with 1.0% higher rate	(3,740)	(4,963)
Projected Benefit Payments		
In 1st year following fiscal year	469,000	513,000
In 2nd year following fiscal year	513,000	504,000
In 3rd year following fiscal year	504,000	496,000
In 4th year following fiscal year	496,000	480,000
In 5th year following fiscal year	480,000	505,000
In 6th through 10th year following fiscal year	2,722,000	2,801,000

K-W Actuarial Services Inc.

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# **APPENDIX 4-2 - CORPORATE PURCHASING POLICY**

#### **Purchasing Policy**



## Policy

Oshawa Power & Utilities Corporation and its subsidiaries (OPUC) promote decision making processes for procurement that are consistent with the strategic objectives of the Corporation. Established guidelines for purchasing and binding the corporation in contractual agreements with Vendors or Contractors is clearly defined and laid out in the Procedures section of this policy. Modification to the guidelines of this policy can occur only on revision to the Policy.

Employees must adhere to the authority level, procurement process and associated dollar values found in the guidelines as set out in Appendix "A" for such occurrences as the placing and handling of Purchase Orders, drafting Tenders, Request for Proposals, Request for Quotes, and Contracts.

#### Procedure

The Materials Manager is designated as the person responsible for Purchasing.

Purchase requisitions are forwarded to the Materials Manager for, monitoring of authority limits, procurement process, possible supply from or inclusion in inventory and tax considerations, if applicable.

#### For purchase of materials or services \$200.00 or less

A small pad order, petty cash or credit/purchasing card is used.

(Small pad orders and petty cash are available in Purchasing/Stores)

#### For purchase of materials over \$200.00 and less than \$2,000.00

A purchase order is required for the acquisition of all materials and services exceeding \$200.00 in value when a credit/purchasing card is not the method of procurement. Exceptions are listed in Appendix "B".

#### For Purchases up to \$500.00 by Purchasing Card

A purchasing card is used by designated employees, for purchases up to \$500.00.

#### For Purchases over \$2,000.00

The Materials Manager in consultation with staff will procure all materials or services greater than \$2,000.00 using the competitive procurement process as set out in "Tenders, Request for Proposals and Request for Quotations".

The purchase of goods and/or services having pricing or value in excess of \$2,000.00, including taxes shall not be authorized unless:

The required goods and/or services have been requisitioned in accordance with this Policy and prescribed procedure

A method of purchase permitted under this Policy has been used and the purchase has been approved, in writing, by the appropriate level of authority as detailed in Appendix "A"

#### For Purchases over \$10,000.00

All purchases of materials and services greater than \$10,000.00 must be approved, in writing, by two Executive Officers before the requisition is forwarded to the Materials Manager, except for materials to fulfill requirements of an approved work order.

Work Orders must be authorized by the VP, of Engineering and Operations.

### Tenders, Request for Proposals and Request for Quotations

Tenders, RFP and RFQ approval of purchases relative to dollar value are set out in Appendix "A".

Tenders require at least three written sealed quotes, received on or before a specified closing date and time, to be opened by the Materials Manager and the Department Head or their designate for evaluation and formalization for the Purchase Order.

All records of tenders, RFPs and RFQs including the original copies should be retained by Purchasing.

Reports will be prepared by the Materials Manager, forwarded to the Department Head for approval/signature and then forwarded to the Executive for approval/signatures {minimum two}.

#### Sole source purchases

These purchases must be approved by two Executive Officers.

# Confirmation of purchase orders

Confirmation of approved purchase orders will only be issued as per the approval requirements listed in Appendix "A".

# Confidentiality, Contingency Agreements

Any agreement that binds the corporation must be approved by the Department Head and forwarded to the Executive for review. If approved, it will be signed by one of the Executive Officers.

Signed Contracts/Agreements related to purchasing must be forwarded to the Materials Manager for record keeping and contract management.

# Materials Manager's Responsibilities

The Materials Manager is responsible to see that the following ideals are attained during the purchasing process.

Procure the necessary quality and quantity of goods and/or services in an efficient, timely and cost effective manner, while maintaining the controls necessary for OPUC, in accordance with approved Purchasing Procedures.

Encourage a transparent, competitive bidding process practical for the acquisition and disposal of goods and/or services.

Delegate the appropriate level of authority to enable OPUC to meet service requirements.

Ensure that employees who are responsible for the requisitioning and purchasing of goods and/or services have a clear set of guidelines to take an appropriate action or make the appropriate decision.

It is the responsibility of the Materials Manager to administer and review the Corporate Purchasing Policy on an annual basis. The Materials Manager is responsible for issuing and receiving quotations, tenders, contracts and proposals.

The Materials Manager in consultation with a Department Head may remove a vendor from consideration for contracts under this Policy on the basis of poor performance or non-performance on an OPUC contract.

#### Department Head's Responsibilities

The Department Head is responsible for reporting, in writing, to the Materials Manager all instances of unsatisfactory vendor performance.

When the process is non compliant with the Policy and Procedures, the Department Head is required to obtain the written approval of two Executive Officers and forward such approval to Purchasing, authorizing the purchase to proceed.

#### Staff's Responsibilities

All staff is responsible for following the Purchasing Policy as outlined within, for ensuring that all items purchased meet the Corporation's Standards and/or an approved Electrical Standard as per Ontario Regulation 22/04.

### APPENDIX "A"

# **Authority Limits**

Dollar Range	Procurement Process	Authority Level
Any Dollar Value	Emergency Purchase	Department Head
0 – 200.00	Small Pad Order	Employee
0 – 500.00	Purchasing Card	Employee
0 – 2,000.00	Credit Card	Department Head
0 – 5,000.00	Credit Card	Executive Officer
0 - 10,000.00	Credit Card	Executive Assistant
Training and Conference Booking		
2,000.00 - 10,000.00	Informal or Formal Quotation	Materials Manager & Department Head
10,000.00 + Capital Works Projects Only	Informal or Formal Quotation, Tender, Request for Proposal	Materials Manager & Executive Officer
10,000.00 +	Formal Quotation/Tender	Two Executive Officers
	Direct Negotiation	
	Contract Extension	
	Request for Proposal	
Sole Source Purchase		Two Executive Officers

# APPENDIX "B"

The following items are not subject to the OPUC's purchasing policy and procedures and a purchase order is not required:

- 1.0 Purchasing Card Purchases
- 2.0 Petty Cash Items
- 3.0 Cheque Requisition
- 4.0 Training and Education
  - (a) Conferences
  - (b) Courses
  - (c) Seminars
  - (d) Conventions
  - (e) Memberships
  - (f) Periodicals
  - (g) Magazines
  - (h) Subscriptions
  - (i) Staff Training
  - (j) Staff Development
  - (k) Staff Workshops
- 5.0 Refundable Employee Expenses
  - (a) Cash Advances
  - (b) Meal Allowances
  - (c) Travel Expenses
  - (d) Entertainment
  - (e) Miscellaneous Non-Travel
  - (f) Hotel Accommodation
  - (g) Mileage

6.0 General Expenses

(a) Licences (vehicles, elevators, radios, etc.)

- (b) Banking and underwriting services where covered by agreements
- (c) Real Estate including land, buildings, leasehold interests, easements, encroachments and licenses
- (d) Items of a confidential nature
- (e) Professional and special services, including appraisals, medical, etc.
- (f) Freight charges
- 7.0 Utilities
  - (a) Postage
  - (b) Water and Sewage Charges
  - (c) Hydro
  - (d) Natural Gas
  - (e) Telephone Service i.e. Bell
  - Canada

Filed: 2015-01-29 EB-2014-0101 Exhibit 4 Page 102 of 104

## **APPENDIX 4-3 – ASSET DEPRECIATION STUDY**

See attached.

# APPENDIX 4-4 – ANNUAL ELECTRICAL UTILITY CUSTOMER SATISFACTION SURVEY

See Exhibit 1, Tab D, Schedule 1.

Filed: 2015-01-29 EB-2014-0101 Exhibit 4 Page 104 of 104

## APPENDIX 4-5-2013 CORPORATE TAX RETURN

See attached.

Filed: 2015-01-29 EB-2014-0101 Exhibit 4, Appendix 4-3, Page 1 of 37 OPUCN Asset Depreciation Study



# **ASSET DEPRECIATION STUDY**

Prepared by:



January, 2014

Filed: 2015-01-29 EB-2014-0101 Exhibit 4, Appendix 4-3, Page 2 of 37



# **OPUCN Asset Depreciation Study**

Dotal

Prepared by:

Shawn Otal, MBA, P.Eng.

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Peer Review by:

Thor Hjartarson, M.A.Sc., P.Eng.

January, 2014

Filed: 2015-01-29 EB-2014-0101 Exhibit 4, Appendix 4-3, Page 3 of 37

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# DISCLAIMER

This report was prepared by METSCO Energy Solutions Inc. (METSCO) for the sole benefit of – Oshawa PUC Networks Inc. (OPCUN) - (the Client), in accordance with the terms of METSCO proposal and the Client's Purchase Order.

Neither the Client nor METSCO, nor any other person acting on their behalf makes any warranty, expressed or implied, or assumes any legal responsibility for the accuracy of any information or for the completeness or usefulness of any apparatus, product or process disclosed, or accept liability for the use, or damages resulting from the use, thereof. Neither do they represent that their use would not infringe upon privately owned rights.

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# **CREDENTIALS OF THE CONSULTANT**

This report has been prepared by METSCO Energy Solutions Inc. (METSCO), a Canadian corporation engaged in the business of providing consulting services to electricity generating transmission and distribution companies. The firm routinely provides consulting services aimed at improving the operating efficiency and financial performance of power systems, covering a broad area, including asset condition assessment, asset management and investment planning into transmission and distribution (T&D) systems' asset sustainment. These report has been prepared by Mr. Shawn Otal and Mr. Thor Hjartarson.

Mr. Shawn Otal is a professional electrical engineer with MBA from Schulich School of Business, specializing in Economics. Mr. Otal has over 35 years of experience in the power sector, spanning a broad area including power system planning, design, operations, research and development. He is the CEO and President of METSCO Energy Solutions Inc., and has previously served in senior professional roles with Kinectrics Inc., Acres International Inc., Westinghouse Canada and ENMAX Power Corporation. Over the recent years, Mr. Otal has worked extensively on consulting assignments aimed at improving the financial and operating performance of power delivery systems in Canada and around the world. His clients include provincial and municipal electric utilities in Canada, electrical equipment manufacturers, electrical safety authorities, Canadian Electricity Association (CEA and CEATI), the World Bank, Asian Development Bank and Ontario Energy Board. He is a member of Professional Engineers Ontario (PEO) and Association of Professional Engineers and Geoscientists of Alberta (APEGA) and is a Senior Member of IEEE. Mr. Otal has authored sixteen major R&D publications.

Mr. Thor Hjartarson is a professional electrical engineer with over 20 years of experience in electrical and power engineering. He graduated from the University of Iceland, Reykjavik, and received a M.A.Sc degree in Electrical Engineering from the University of British Columbia, Vancouver, BC, Canada. In former role at Toronto Hydro he lead a large asset management division with responsibilities for planning, engineering, reliability analysis, system studies, record management, data quality, mobility and GIS improvements where he was recognized for transforming an existing older culture of engineering practice to a dynamic powerhouse of technical innovation and knowledge. He has strong technical background in transmission and distribution engineering leadership in innovation of asset management principles. One of the founders of Health Index methodology in utility asset condition assessment and has lead comprehensive implementations of a risk based investment planning methodologies. In his previous consulting career, he has had experience with over 30 well known electrical power companies around the world. He has authored several technical papers focusing on T&D asset management.

# **EXECUTIVE SUMMARY**

This report summarizes the results of an Asset Depreciation Study, completed by METSCO in January 2014 on behalf of OPUCN with the objective establishing the typical useful life of major fixed assets employed on OPUCN's distribution system.

In 2010 Ontario Energy Board retained an independent contractor - Kinectrics Inc. to perform a detailed depreciation study covering all fixed assets employed on Ontario's distribution systems, to assist the LDCs in making the transition from GAAP to IFRS. In determining the typical useful life of various assets employed by OPUCN, rather than duplicating the work effort previously spent by Kinectrics in carrying out additional surveys, we have used the Kinectrics report as a reference in preparing this depreciation study.

The assets covered by the report have been grouped into the following four sections:

- a) Distribution station assets;
- b) Overhead distribution system assets;
- c) Underground distribution system assets; and
- d) Auxiliary assets.

Our conclusions, duly supported by the facts, arguments and analysis provided in this report, differ from the Kinectrics' conclusions for the assets tabulated below:

Asset Class	Typical Useful Life (Kinectrics Conclusion)	Typical Useful Life (Our Conclusion)
Power Transformers employed at Distribution Stations	45 years	40 years
Station Independent Circuit breakers	45 years	40 years
Overhead conductors	60 years	45 years
Overhead Line switches	45 years	40 years
SCADA System	20 years	8 years
Direct Buried Secondary Cables	35 years	42 years

For all of the remaining assets employed on OPUCN's distribution system, including the solid state relays and all of the auxiliary assets, in our opinion the estimates of typical useful life provided in the Kienctrics report accurately represent the typical useful life for each of those assets. It is also noted that all of the protection and control relays employed at OPUCN substations are microprocessor /solid state type.

# **1** Introduction

This report summarizes the results of an Asset Depreciation Study, completed by METSCO in January 2014 on behalf of OPUCN with the objective establishing the typical useful life of major fixed assets employed on OPUCN's distribution system.

Effective January 1, 2011, Ontario Energy Board (OEB) mandated all local distribution companies (LDCs) in Ontario to adopt International Financial Reporting Standards (IFRS). Under IFRS rules, business entities are required to amortize the cost of fixed assets, including property, plant, and equipment used in business, over the period of time that they provide useful service, with the depreciation rates determined through assets' service life studies. Prior to adoption of IFRS, asset service lives were arbitrarily specified by the regulator and up until 2010, all electricity distributors in Ontario including OPUCN; used the amortization rates for fixed assets prescribed by Ontario Hydro (the regulator prior to restructuring of the electricity business in Ontario).

In 2010 Ontario Energy Board retained an independent contractor - Kinectrics Inc. to perform a detailed depreciation study covering all fixed assets employed on Ontario's distribution systems, to assist the LDCs in making the transition from GAAP to IFRS. This approach was chosen to minimize the need and cost to Ontario consumers of a myriad of detailed studies by individual distributors. Therefore, in determining the typical useful life of various assets, rather than duplicating the work effort previously spent by Kinectrics in carrying out additional surveys, we have used the Kinectrics report as a reference in preparing this depreciation study. To allow an easy comparison of this report with the reference, we have used the same terms and definitions in this report as were used in the Kinectrics report.

The assets covered by the report have been grouped into the following four sections:

- a) Distribution station assets;
- b) Overhead distribution system assets;
- c) Underground distribution system assets; and
- d) Auxiliary assets.

# **2 DISTRIBUTION STATION ASSETS**

#### 2.1. Power Transformers

The key role of station transformers is to step down transmission or sub-transmission voltage to distribution voltage. In case of OPUCN, a total of 16 station transformers employed in 8 municipal stations step down from 44 kV sub-transmission voltages to 13.2 kV.

The main components of power transformers employed at municipal stations are:

- > primary and secondary coils, made of copper or aluminium conductors
- magnetic core made of iron laminations
- > insulation system, commonly consisting of cellulose paper and mineral oil
- ▶ transformer tank, either sealed or breather type, and
- > primary and secondary bushings and auxiliary devices.

The most critical component in transformer aging and eventual end of life consideration is the insulation system, consisting of mineral oil and cellulose paper. Transformer oil consists of hydrocarbon compounds that degrade with time due to oxidation, resulting in formation of moisture, organic acids and sludge. The oil oxidation rate is a function of operating temperature. Increased acidity and moisture content in insulating oil causes accelerated degradation of insulation paper. Formation of sludge adversely impacts the cooling efficiency of transformer, resulting in higher operating temperatures and further increasing the rate of oxidation of both the oil and the paper. Condition assessment of transformer oil, therefore, provides extremely useful information in assessing the health and condition of a transformer.

The paper insulation consists of long cellulose chains, that break as the paper ages (oxidizes). Tensile strength and ductility of insulation paper are important properties that are determined by the average length of the cellulose chains. As the paper oxidizes, its mechanical strength is gradually reduced, making it weak and brittle. This can lead to insulation failure if the transformer is subjected to mechanical shocks that are common in normal operating conditions. Insulation degradation and failure can also result from electrical activity inside insulation, such as partial discharge activity, which is initiated if the level of moisture in oil builds up or if other minor defects develop within the insulation. Partial discharge and other electrical and thermal faults in the transformer can be detected and monitored by measurement of hydrocarbon gases in the oil through Dissolved Gas Analysis (DGA).

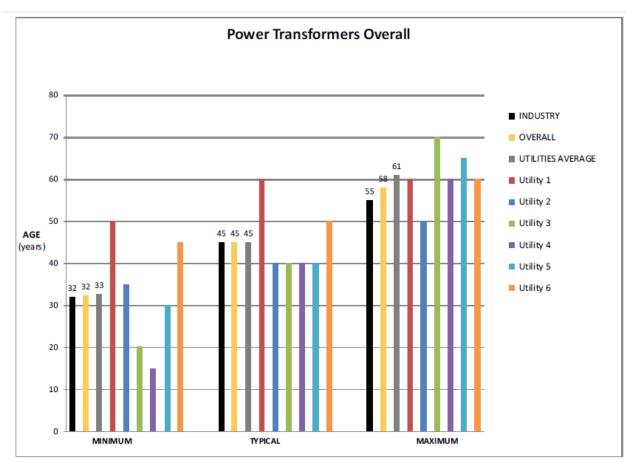
Because the failure of a power transformer in service has serious impacts on reliability and can also lead to catastrophic tank failures, power transformers are generally retired from service when the results of lab tests, visual inspections combined with service age indicate high probability of failure in service.

Transformer operating temperature (determined by typical load levels), environmental factors (ambient temperature, pollution levels and exposure to rain/snow/ice), operating practices (short time overloading of transformers) and preventative maintenance (drying and reconditioning of insulation system) impact the useful service life of power transformers. For example a lightly

loaded transformer typically provides a significantly longer service life in comparison to a heavily loaded transformer. Similarly, transformer service life can be extended beyond its typical life through rehabilitation of the insulation system, i.e. periodic removal of moisture from insulation system replacement of winding coils, but such programs are not always an economic option for power transformers with small and medium ratings.

Exhibit 1, reproduced below from the Kinectrics report, summarizes their report's conclusions and documents the results of surveys performed by Kinectrics:

ASSET	USE FUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
Overall	30	45	60
Bushing	10	20	30
Tap Changer	20	30	60



**Exhibit 1: Useful Life of Power Transformers** 

As shown in Exhibit 1, Kinectrics report concludes typical useful life of power transformers to be 45 years. In case of on-load tap changers the typical useful life is concluded to be 30 years,

which is significantly less due to the faster degradation of their condition caused by the presence of electrical arcing during tap changer operation.

As shown in Exhibit 1, Utility 1 reported minimum useful life of 50 years, maximum useful life of 60 years and the typical useful life also equal to 60 years for this asset. There appears to be an error in Utility 1's response, because the typical life expectancy is expected to lie in between the maximum and minimum useful life values. Four of the remaining five LDCs surveyed by Kinectrics, reported typical useful life of 40 years for this asset. Since the transformer loading, operating and maintenance practices as well as environmental conditions within the service territory of OPUCN are similar to all other LDCs operating in Southern Ontario, the typical useful life of power transformers at OPUCN is also expected to be the same as reported by the vast majority of surveyed LDCs, i.e. 40 years. All of the power transformers employed at OPUCN are equipped with on-load tap changers and the OLTC operation results in faster degradation of the insulation system.

We have independently analysed the actual useful service life for a batch of power transformers that have been retired from service at OPCUN during the past five years. The results of this analysis are summarized in Exhibit 2 and indicate the mean useful life of power transformers at OPUCN to be 39 years.

Station	Transformer	Installed Date	Removal Date	Age (years)
MS 2	T1	1975	2012	37
	T2	1968	2012	44
MS 11	T1	1971	2011	40
	T2	1979	2011	32
MS 13	T1	1968	2011	43
	T2	1968	2013	45
MS 15	T1	1976	2012	36
	T2	1967	2012	36
				Average:39

#### Exhibit 2: Actual Service Life Provided by Power Transformers at OPUCN

In view of the foregoing, in our opinion, 40 years is a more accurate value for the typical useful life of power transformers at OPUCN, rather than the 45 year estimate proposed in Kinectrics report.

#### 2.2. Metal Clad Switchgear and Circuit Breakers

OPUCN employs 15kV class medium voltage metal-clad switchgear in indoor applications at each of the eight municipal substations. The original switchgear employed magnetic-air circuit breakers with arc-chutes, which are being replaced by OPCUN with vacuum circuit breakers in the original switchgear cells, as they reach the end of their useful service life.

A number of factors influence the overall rate of wear and severity of degradation of circuit breakers, including type of the insulating medium, design of the contacts, operating environment, and the duty cycle of the circuit breaker. Load current switching or fault current interruption seldom lead to sudden failure of circuit breakers, but repeated operations result in overall wear and tear which lead to eventual end of life.

Air magnetic breakers employ the magnetic effect of the current in their design, by forcing the electric arc produced during opening on the contacts into an arc chute. The arc chute causes elongation of the arc path and allows cooling, splitting and eventual extinction of the arc. In some designs, an auxiliary puffer is employed to blast air into the arc, which allows successful interruption of low-level currents with weaker magnetic fields. Air magnetic breakers represent the second oldest technology in circuit breaker design, next to OCBs. They are no longer in manufacture and have been superseded by SF6 and vacuum technologies since the late 1970s.

When a circuit breaker interrupts current, an electrical arc is produced in the ionized insulation medium. In order for the circuit breaker action to succeed, the large amount of energy contained in the arc must be successfully extinguished by the breaker's interrupting medium. Depending on the type of arc interrupting medium employed, circuit breakers are classified as oil circuit breakers, magnetic air circuit breakers, SF-6 circuit breakers or vacuum circuit breakers. In order to deliver the desired functions, circuit breakers are required to possess the following properties and characteristics:

- a) Highly conductive contact material, capable of withstanding repeated arcs;
- b) High quality of contact make with extremely low resistance;
- c) High quality contact mating, capable of retaining high conductivity over time;
- d) Adequate contacts parting distance in open position for the rated voltage;
- e) Adequate line to ground insulation for the rated voltage;
- f) Stable insulating medium, capable of withstanding repeated arcs;
- g) Fast speed during opening and closing of contacts;
- h) Appropriate arc blowing techniques to extinguish arcs;
- i) Adequate energy imparting mechanisms for making or breaking of short circuit currents.

The operating mechanism of circuit breakers consists of numerous moving parts that are subject to wear and tear during breaker operation. Because circuit breakers are required to frequently "make" and "break" heavy currents, the contacts are subjected to arcing that accompanies such operations. Each time a circuit breaker opens or closes the contact surfaces undergo some degradation and degraded contacts produces higher degree of arcing in subsequent operations. Heat produced during contact arcing also decomposes the metal surface from the contacts as well as the insulation medium and the by-products so decomposed are deposited in surrounding insulation materials. The mechanical energy required to generate high contact velocities also results in wear and tear of the mechanical parts in operating mechanism.

The findings and conclusions of the Kinectrics' report are summarized in Exhibit 3. As shown, their report concludes 40 years to be the typical useful life for metal clad switchgear and removable breakers used in metal clad switchgear. During the utility surveys, four of the six

surveyed LDC indicated 40 years to be the typical useful life of metal clad switchgear on their systems.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAXUL
Overall	30	40	60
Removable Breaker	25	40	60

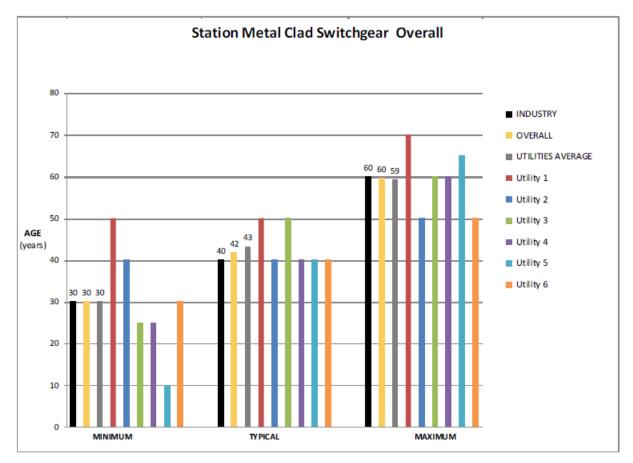


Exhibit 3: Typical Useful Life of Metal Clad Switchgear (Kinectrics Report)

Based on OPUCN's own experience, circuit breakers in metal clad switchgear, employed at MS-9, MS-7, MS-11, MS-13, and MS-14 have been replaced after mean useful service life of approximately 40 years. In view of the above, we concur with Kinectrics recommendation for the typical useful life of metal clad switchgear and circuit breakers in metal-clad switchgear to be 40 years.

#### 2.3. Station Independent Breakers

The asset class covers both outdoor and indoor mounted circuit breakers, not in metal clad enclosures. In accordance with the definitions provided in the Kinectrics report, the 44 kV outdoor circuit breakers employed at OPUCN stations fall within this category. OPUCN has a total of sixteen (16) circuit breakers in service that fall in this category. The mean service life of these circuit breakers is currently 38 years and most of these circuit breakers are intended to be replaced during the next five years, which would yield an average service life of approximately 40 years.

Generally speaking, in relation to the indoor mounted circuit breakers, the outdoor mounted circuit breakers experience more adverse and hostile environmental conditions, that increase the rate and severity of circuit breaker condition degradation. The following factors represent additional environmental degradation of outdoor mounted circuit breakers:

- Corrosion of enclosures and metal parts;
- > Potential ingress of moisture into operating parts and insulating system;
- > Bushing/insulator deterioration under the influence of moisture, fog, ice; and
- > Deterioration of mechanical parts and linkages in operating mechanism.

On the other hand, the 44 kV breakers are less frequently called upon to operate and break short circuit current and therefore, the wear and tear from operational use is expected to be less than those experienced by 13.8 kV circuit breakers in indoor metal clad switchgear.

Exhibit 4 summarizes Kinectrics findings for this asset class. As shown, the Kinectrics report indicates that based on broader industry experience, the typical life expectancy of individual circuit breakers is 40 years. It is also noteworthy that only three of the six utilities surveyed by Kinectrics provided information relevant to this asset and there were extremely large deviations in service age data obtained from them. Kinectrics did not investigate the reasons behind such large deviations, but it is possible the deviations were caused by mixing indoor and outdoor mounted circuit breakers in the same category and not excluding the circuit breakers which might have been completely overhauled. One of the utilities reported typical service life of 70 years for circuit breakers, which was likely achieved through major refurbishment or rehabilitation of original breakers with additional capital expenditure.

In our opinion, because this asset class is composed of a broad category of different types of circuit breakers, some installed indoors and some installed outdoors, the surveys performed by Kinectrics did not correctly reveal the typical useful life of outdoor circuit breakers. For this asset, the typical useful life based on the overall industry experience, as reported by Kinectrics, more accurately represents the typical useful life of circuit breakers employed on OPUCN system. We recommend OPUCN to adopt 40 years to be the typical useful life for this asset, to match the broader industry experience reported by Kinectrics.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
Station Independent Breakers 🛛	35	45	<mark>6</mark> 5

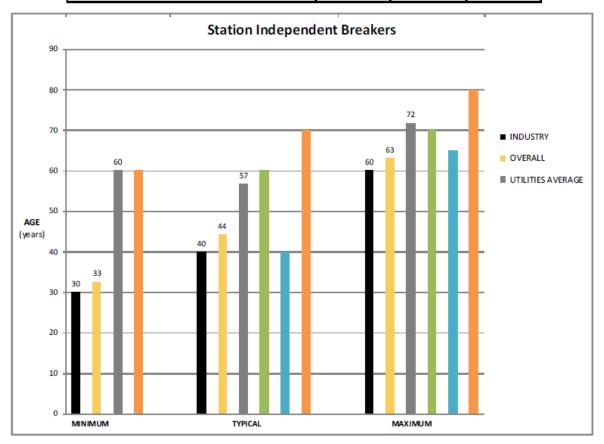


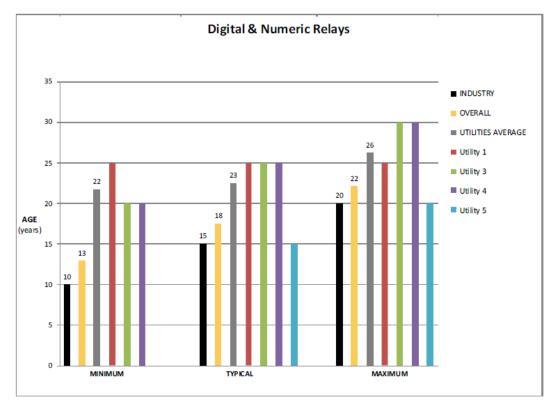
Exhibit 4: Typical Useful Life of Independent Circuit Breakers (Kinectrics Report)

## 2.4. Microprocessor Relays

The function of protection relays on distribution systems is to detect and annunciate abnormal operating conditions and initiate circuit breaker or recloser trip to isolate faulty circuits from healthy circuits. Protection relays obtain their input from instrument transformers, process the information and automatically take corrective action with adequate speed and selectivity. Electro-mechanical designs of protection relays have been in use in the industry for several decades, but the industry best practice has been to replace these relays with solid state and microprocessor relays. The micro-processor and the solid state relays do not require frequent calibrations, but they are vulnerable to damage from voltage and current surges.

All of the protection and control relays employed at OPUCN substations are microprocessor type. As shown in Exhibit 5, the Kinectrics report recommends 20 years to be the typical useful life for this asset and we agree this is an accurate estimate of the typical useful life for this asset.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
Digital & Numeric Relays	15	20	20



#### Exhibit 5: Typical Useful Life of Digital Microprocessor Relays (Kinectrics Report)

#### 2.5. Remote Supervisory Control and Data Acquisition System (SCADA)

SCADA systems on power distribution systems are used for data acquisition related to status and condition of field mounted equipment as well as for remote control of field mounted equipment. While SCADA systems have traditionally been employed by local distribution companies for remote control of substation equipment, however modern SCADA systems can provide much more advanced functions, i.e. automated isolation of feeder sections through operation of line mounted switches, automated outage management, automated demand control etc.

As shown in Exhibit 6, the Kinectrics report recommends 20 years to be the typical useful life for this asset.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
Remote SCADA	15	20	30

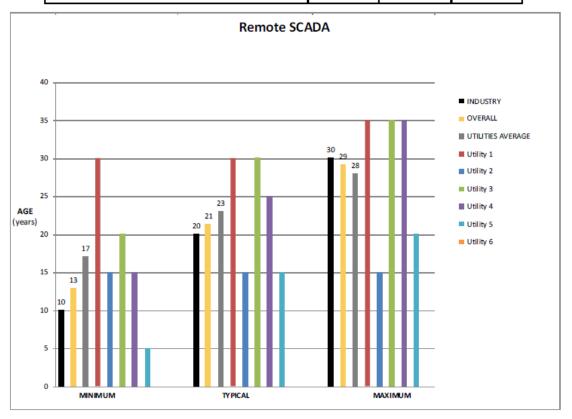


Exhibit 6: Typical Useful Life of Remote SCADA System (Kinectrics Report)

SCADA systems consist of multiple sub-systems, as listed below:

- (a) Remote terminal units (RTUs) that connect to sensors and convert sensor signals to digital data. They have telemetry hardware capable of sending digital data to the supervisory system, as well as receiving digital commands from the supervisory system. RTUs have embedded control capabilities such as ladder logic to accomplish boolean logic operations.
- (b) Telemetry system which connects RTUs with control centers. Telemetry systems include both wired communications media such as leased telephone lines and WAN circuits and wireless telemetry media, such as satellite, licensed and unlicensed radio, cellular and microwave.

- (c) Data acquisition server –the software service that allows clients to access data from the field devices using standard protocols. It uses industrial protocols to connect software services, via telemetry, with field devices such as RTUs.
- (d) A human-machine interface or HMI is the apparatus or device which presents processed data to a human operator, and through this, the human operator monitors and interacts with the process. The HMI is a client that requests data from a data acquisition server.

Components employed on the above described SCADA subsystems can be categorized into three main groups: (i) computer hardware, (ii) computer software, and (iii) the communications architecture. The typical useful life of SCADA system is a function of the typical useful life of these components. While the SCADA components may provide a service life of 20 years without component failures, as proposed in the Kinectrics report, the end of life for the SCADA systems is typically caused much earlier, due to hardware failures or the software becoming obsolete. The hardware and software components in most cases require upgrades after service life of approximately 5 years, while the communications infrastructure components may provide a service life of 10 to 20 years.

Our investigations into OPUCN SCADA history reveal that the control room hardware and software components were installed in 2008. In late 2013 one of the SCADA Workstation failed and was replaced, providing service life of 5 years. OPUCN also upgraded the two servers at the same time. While performing the above listed computer hardware replacements and upgrades, OPUCN also upgraded the SCADA Software. In the substation RTUs, the original analog and control boards are still in service for about 20 years, but the CPUs required replacement after about 15 years of service.

To maximize the benefits of major investments into the advanced revenue metering systems, many LDCs are implementing major upgrades to their SCADA systems to incorporate smart grid functions, i.e. outage management systems. Such advanced functions require both hardware and software upgrades prior to these components reaching the end of their mechanical life due failure in service.

In view of the foregoing, in our opinion, the typical useful life of SCADA system is of the order of 8 years, rather than 20 years, proposed in Kinectrics report.

#### 2.6. Other Assets Employed in Distribution Stations

For all of the remaining assets employed in Distribution Stations, in our opinion the estimates of typical useful life provided in the Kinectrics report accurately represent the typical useful life for each of those assets.

## **3** Overhead Distribution System Assets

#### 3.1. Fully Dressed Wood Poles

This asset class includes the wood pole, cross arm, bracket, insulator, cutouts, arresters, anchors and guys. The most significant component of this asset is the wood pole itself, commonly utilizing Red Pine, Jack Pine, and Western Red Cedar (WRC) species. The poles are either butt treated or full length treated with preservatives.

The most critical degradation process for wood poles involves biological and environmental mechanisms such as fungal decay, wildlife damage and effects of weather. Fungi attack both external surfaces and the internal heartwood of wood poles. The process of fungal decay requires the presence of fungus spores in the presence of water and oxygen. For this reason, the area of the pole most susceptible to fungal decay is at and around the ground line, although pole rot is also known to begin at the top of the pole. To prevent the decay of wood poles, utilities treat them with preservatives before installation. Wood preservatives have two basic functions:

- keep out moisture that supports fungi by sealing the surfaces, and
- ➢ kill off the fungal spores.

The following factors represent some of the more critical factors affecting wood pole strength as poles age:

- Original type and class of wood pole;
- Original defects in wood (e.g. knots, cracks or rot);
- Rate of decay in service life which depends on type of treatment and environmental conditions;
- > Pole damage by woodpeckers, insects, and other wildlife; and
- ➢ Wood burns.

Several types of damage can also deform bolt holes in poles. Generally, such deformities do not present immediate problems. However, in some cases deformed holes can result in both failure of the structure and failure of other components attached to the pole. Bolts also can become loose, elongated, bent, cracked, sheared/broken and lost.

The types of insulators and configurations typically used in distribution systems include deadend, suspension, post and pin types. The insulating portion may consist of porcelain or polymer. The metallic parts usually are made from zinc coated ductile or malleable iron. Both electrical and mechanical stresses may affect insulators. Degradation and eventual failure generally result from the loss of either dielectric or mechanical strength. Mechanical loading on suspension and line post insulators consists of a combination of tensile, torsional, cantilever, vibration and compression forces resulting from factors such as conductor vibration and galloping, accumulation of high density snow or ice, and sudden ice shedding. Line post, strut and pin type insulators are unique since they may experience a combination of cantilever, transverse and tensile forces simultaneously. Impact or contact induced damage also may occur. Contamination of insulator surface with road salt, freezing rain, and snow accumulation may induce flashovers resulting in dielectric failure of insulators. Electrical flashovers can cause both external and internal damage to porcelain and composite insulators.

Degradation or reduction in strength of insulator hardware may occur due to the following:

- Loss of galvanization and corrosion of steel members;
- Loss in strength due to fatigue;
- Loosening of hardware due to conductor vibrations; or
- Hardware failure during major storm events.

ASSET COMPONENTIZATION		l	USEFULLIFE (years)	1
		MINUL	TUL	MAX UL
Overall		35	45	75
Cross Arm	Wood	20	40	55
Cross Ann	Steel	30	70	95

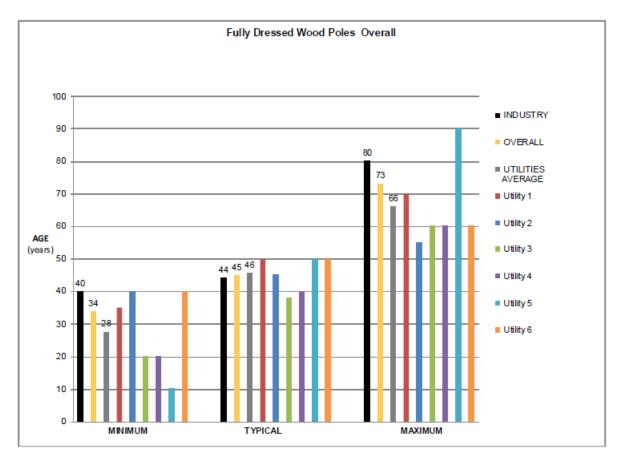


Exhibit 7: Typical Useful Life of Fully Dressed Wood Poles (Kinectrics Report)

Exhibit 7 documents the results of utility surveys performed by Kinectrics and summarizes their conclusions of the typical useful of this asset class. The Kinectrics report recommends a typical useful life of 45 years for this asset.

We analysed relevant data from the OPUCN records. The number of poles removed from service on various line rebuild projects, completed during the recent years, and their useful service life are indicated in Exhibit 8 below. The data indicate mean service life of approximately 45 years was achieved for the wood poles. Therefore, we conclude 45 years to an accurate estimate of the typical useful life of wood poles at OPUCN.

	Useful
Number of	Service Life
Poles	(years)
21	40
22	45
3	30
27	40
24	40
2	45
15	45
3	40
3	50
18	40
37	50
77	40
70	50
42	45
109	50
Mean	
Service Life	
(Years)	45.22

#### Exhibit 8: Actual Service Life of Wood Poles on OPCUN Distribution System

#### 3.2. Overhead Line Conductors

Line conductors allow flow of current through them facilitating the movement of power from substations to customers' premises. Overhead line conductors are typically supported on wood pole structures to which they are attached by insulators suitable for the voltage at which the lines operate. The conductors on a line are sized by taking into account the amount of current to be carried. The maximum current carrying capacity of conductors is determined by their thermal rating. However distribution line conductors are commonly sized to provide the right balance between energy loss in conductors (copper loss) and the capital cost of conductors. As a result

the distribution lines often operate under loads significantly below the thermal rating of the conductors.

Overhead line conductors must have adequate tensile strength, enabling them to be stretched between poles. Distribution lines typically have span length of 40 m to 60 m. Three different types of conductors are commonly used on distribution lines:

- Aluminium Conductors Steel Reinforced (ACSR),
- Aluminium Stranded Conductors (ASC),
- Aluminium Alloy Conductors (AAC).

Steel reinforced aluminium conductors have galvanized steel core strands that supply most of their tensile strength. The steel core has both tensile and ductile properties, allowing the core to withstand both longitudinal forces and bending movements without failure. AAC conductors cost less in relation to ACSR conductors, but their tensile strength is significantly lower than those of the ACSR conductors. Both the price and tensile strength of AAC conductors lie in between those of ASC and ACSR conductors.

Because of the relatively short span lengths employed on distribution lines in relation to transmission lines, the tensile strength of conductors on distribution lines is not as critical as it is on transmission lines. Most distribution utilities these days, therefore, employ all aluminium conductors on distribution lines. Aluminium alloy conductors are sometimes used on distribution lines with longer span lengths.

As current passes through the conductors, the resistance causes its temperature to rise, the temperature change is proportional to the square of the load current passing through the conductor. The rise in temperature causes the conductor to lengthen and sag between points of support, reducing the height of the conductor above ground. Although it seldom happens on distribution lines, line operation at loads beyond conductors' thermal rating of approximately 90° C may lead to annealing of conductors, resulting in permanent loss of its tensile strength.

To provide their intended functions on distribution lines, conductors must retain both their conductive properties and mechanical (i.e., tensile) strength. Aluminium conductors have three primary modes of degradation, corrosion, fatigue and creep. The rate of each degradation mode depends on several factors, including the size and construction of the conductor as well as environmental and operating conditions.

Generally, corrosion represents the most critical life-limiting factor for ACSR conductors. Environmental conditions affect degradation rates from corrosion. Both aluminium and zinccoated steel core conductors are susceptible to corrosion from chlorine-based pollutants, even in low concentrations, but the rate of corrosion of steel core is significantly greater than that of aluminium. While fatigue degradation is a serious concern for transmission lines that are strung with significantly higher tension, it is commonly not a serious issue for distribution lines.

Overloaded lines operating beyond their thermal capacity can suffer from a loss of tensile strength due to annealing at elevated operating temperatures. Each elevated temperature event

adds cumulative damage to the conductors. After loss of 10% of a conductor's rated tensile strength, significant sag occurs, requiring either re-sagging or replacement of the conductor. ACSR conductors can withstand greater annealing degradation compared to ASC.

Phase to phase power arcs can result from conductor galloping during severe storm events. This can cause localized burning and melting of a conductor's aluminium strands, reducing strength at those sites and potentially leading to conductor failures.

Other forms of conductor damage include:

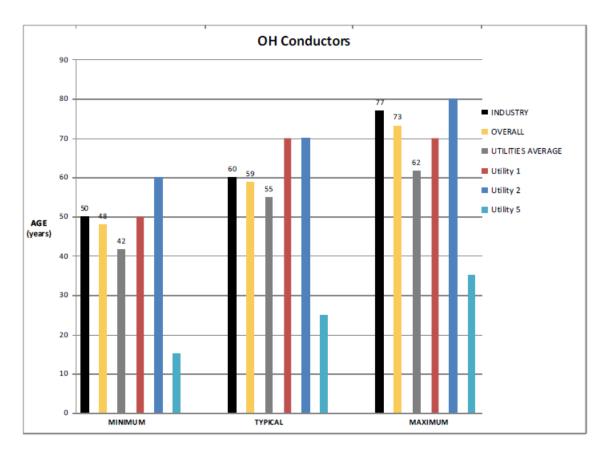
- Broken strands (i.e., outer and inners)
- Strand abrasion
- Elongation (i.e., change in sags and tensions)
- Burn damage (i.e., power arc/clashing)
- Bird-caging.

Exhibit 9, reproduced below from the Kinectrics report, summarizes the typical useful life of overhead line conductors. As shown, it concludes the typical useful life of overhead line conductors to be 60 years. We agree the conductors on distribution lines often outlive the poles and are not usually on the critical path to determine end of life for a line section. But typically, whenever a line is rebuilt with new poles, the conductors are also replaced at the same time, because it is economically prudent to do so.

To avail of the hypothetical useful life of 60 years for the line conductors supported on wood poles with typical useful life of 45 years, the line will need to be rebuild in a piecemeal fashion; i.e. all the wood poles will need be replaced when a majority of them have reached the end of their service life after 45 years and then 15 years later the conductors will need to replaced. Such piece meal construction of medium voltage lines would also require live-line construction techniques. Electric utilities' practical experience indicates that it is more economical to construct the line in a single stage replacing all the components at the same time, rather than constructing the line in a piece meal manner.

Thus while we agree the conductors often outlive poles in terms of their performance degradation, because it is more economical to reconstruct the overhead lines by changing all the components at the same time rather than reconstructing the line in stages, the effective typical useful life for overhead line conductors is equal to the typical useful life of the wood poles. Therefore we recommend OPUCN to employ 45 years to be the typical useful life for overhead line conductors, because a vast majority of the overhead lines at OPUCN are supported on wood poles.

ASSET	USE FUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
OH Conductors	50	60	75





#### 3.3. Overhead Line Switches

This asset class consists of overhead line switches, focusing primarily on 3-phase outdoor polemounted switches but also includes in-line switches. The primary function of switches is to allow for isolation of line sections or equipment for maintenance, safety or other operating requirements. The operating mechanism can be either a manual gang operating linkage or a simple hook stick.

The performance degradation modes associated with overhead line switches include corrosion of hardware, mechanical deterioration of linkages in operating mechanism, switch blades falling out of alignment, switch blade contacts burn out due to arcing, loose connections or cracked insulators. The rate and severity of these degradation processes depends on the operating duties

and environment in which the equipment is installed. In most cases, corrosion or rust represents a critical degradation process. The rate of deterioration depends heavily on environmental conditions in which the equipment operates. Corrosion typically occurs around the mechanical linkages of these switches. Corrosion can cause seizing. When lubrication dries out, the switch operating mechanism may seize making the disconnect switch inoperable. In addition, when blades fall out of alignment, excessive arcing may result. In heavy industrial areas, chemical pollution or road salt spray can also result in faster degradation.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAXUL
OH Line Switch	30	45	55

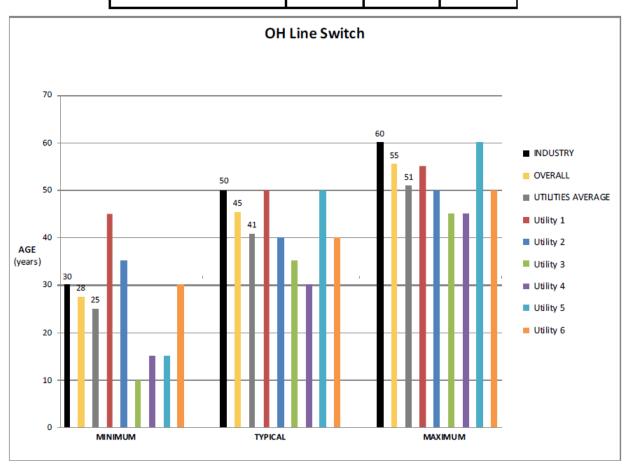


Exhibit 10: Typical Useful Life of Overhead Line Switches (Kinectrics Report)

Exhibit 10, reproduced from the Kinectrics' report, summarizes the survey results and conclusions of the Kinectrics report. As shown, the six utilities responding the Kinectrics survey reported typical useful life of 30 years (1), 35 years (1), 40 years (2) and 50 years (2), which results in mean useful life of 41 years. Kinectrics has indicated their opinion of the typical useful life for this asset in broader industry to be 50 years, but no evidence is provided in the report to support this belief. Based on the results of the survey gathered by Kinectrics and based on

OPUCN's own operating experience, the correct typical useful life of this asset is 40 years and we recommend OPUCN adopt 40 years TUL for this asset.

#### 3.4. Other Assets Employed on Overhead Distribution System

For all of the remaining assets employed on overhead lines, including distribution transformers, voltage regulators and reclosers, in our opinion the estimates of typical useful life provided in the Kinectrics report accurately represent the typical useful life for each of those assets.

# 4 Underground Distribution System Assets

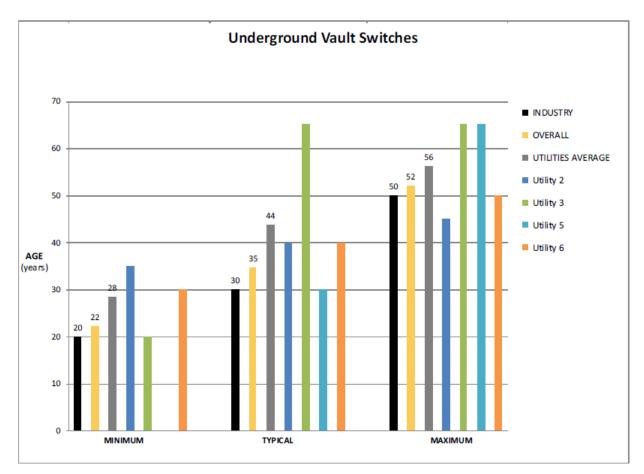
#### 4.1. Underground Vault Switches

Underground vault switches are used to switch underground feeders or sub-loops are rated to make and break load current. Due to space constraints in underground vaults air-insulated switches are rarely used. Oil insulated switches were commonly used in the past in this application, however SF-6 insulated switches are more commonly used these days.

The health degradation modes for underground vault switches include mechanical failures due to corrosion of operating mechanism, rusting of enclosure and contamination of insulating oil with moisture. The SF6 switch failure modes include degradation of seals and gaskets that result in gas leak.

As summarized in Exhibit 11, the Kinectrics report concludes 35 years to the typical useful life for this asset and we agree with their conclusion.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
UG Vault Switches	20	35	50





## 4.2. Underground Vaults

Underground vaults permit installation of transformers, switchgear or other equipment and are used when it is not practical to install such equipment on above grade pads. The vaults are typically built of reinforced concrete, using poured in place techniques. In locations subject to flooding floor drains and sump pumps are provided. Vaults where heat generating equipment such as distribution transformers are installed are also equipped with ventilation grates. Man access is provided through the top. When vaults are located in road ways, sidewalks, parking lots or other areas open to vehicular traffic, the structures must be designed by a structural engineer. Since vaults are confined spaces, they must be adequately sized to rescue trapped workers during a fire or explosion inside the vault or manhole. The common degradation mode vaults is the deterioration of concrete structures due to concrete spalling and corrosion of rebar, sinking of the roof top surfaces allowing rain water to collect and flood the vaults. Functional obsolescence, where the size of the vault no longer meets the space requirements can also lead to end of life of a structure.

As summarized in Exhibit 12, the Kinectrics report concludes 60 years to the typical useful life for this asset and we agree with their conclusion.

ASSET	U SEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAXUL
Overall	40	60	80
Roof	20	30	45

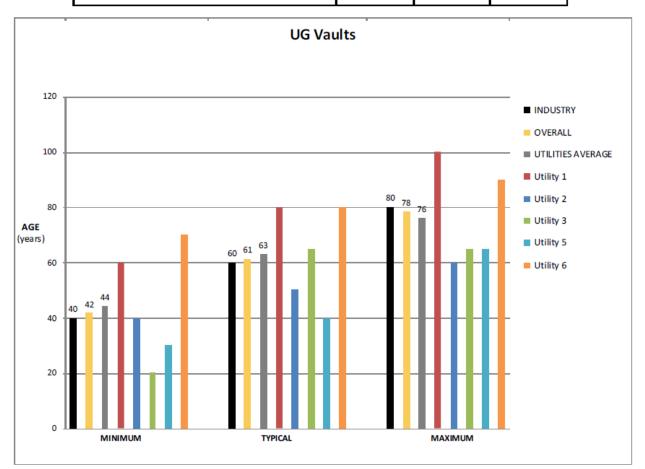


Exhibit 12: Typical Useful Life of Equipment Vaults (Kinectrics Report)

## 4.3. Cable Chambers

Cable Chambers or manholes permit cable pulling into underground ducts and provide access to splices for periodic inspections or maintenance. Cable chambers of many different styles, shapes

and sizes are in use. Pre-cast cable chambers are typically installed in boulevards and road allowances, outside of the travelled pavement portion of the road. Poured in place cable chambers are used under the travelled portion of the road to meet the required structural strength.

The common degradation mode for cable chambers is the deterioration of concrete structures due to concrete spalling and corrosion of rebar, sinking of the roof top surfaces allowing rain water to collect and flood the cable chamber. Functional obsolescence, where the size of the manhole no longer meets the space requirements can also lead to end of life of a structure.

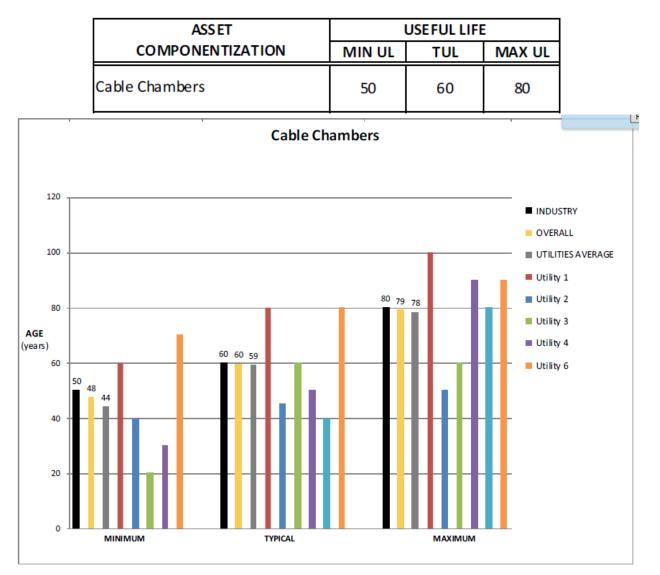


Exhibit 13: Typical Useful Life of Cable Chambers (Kinectrics Report)

As summarized in Exhibit 13, the Kinectrics report concludes 60 years to the typical useful life for this asset and we agree with their conclusion.

## 4.4. Concrete Encased Duct Banks

Concrete encased duct banks are commonly used for installation of underground cables in downtown city centers. The ducts connecting cable chambers and equipment vaults provide convenient means of pulling cables to serve new loads or replace older cables at the end of their useful life.

ASSET	USE FUL LIFE			
COMPONENTIZATION	MIN UL	TUL	MAX UL	
Concrete Encased Duct Banks	35	55	80	

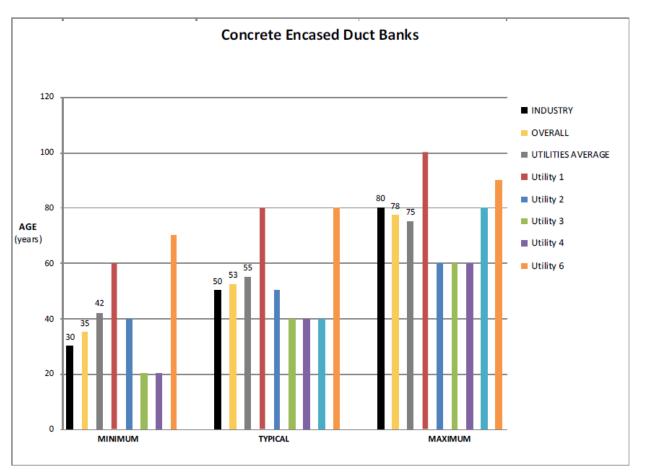


Exhibit 14: Typical Useful Life of Concrete Encased Duct Banks (Kinectrics Report)

As summarized in Exhibit 14, the Kinectrics report concludes 55 years to the typical useful life for this asset and we agree with their conclusion.

#### 4.5. Direct Buried Primary Cable

Medium voltage cables may employ either copper or aluminum conductors. They may be constructed in either single phase or three phase configurations. Two major types of cables are in common use in Ontario: paper insulated lead covered (PILC) and cross linked polyethylene (XLPE).

The original designs of medium voltage cables were constructed out of oil impregnated layers of paper covered with a lead jacket and these cables are commonly referred to as paper insulated lead covered (PILC) cables. For these cables, the two significant long-term degradation processes are corrosion of the lead sheath and dielectric degradation of the oil impregnated paper insulation. Isolated sites of corrosion resulting in moisture penetration or isolated sites of dielectric deterioration resulting in insulation breakdown can result in localized failures. However, if either of these conditions becomes widespread there will be frequent cable failures and the cable can be deemed to be at effective end-of-life.

Polymer insulations for cables were introduced as an economic alternative to PILC cables in 1970's. The insulation system in these cables consists of a semi-conducting sheath over the conductor, the insulation, another semi-conducting layer over the insulation, a metallic shield tape or concentric neutral and a jacket. For the early generation of these cables, manufactured in the 1970's, two unexpected factors entered into the failure mechanism: presence of impurities in the insulation system and ingress of moisture that made these cables susceptible to premature failures due to water treeing. Water treeing in XLPE cables of 1970's vintage are the major cause of excessive cable failures on distribution system. Corrosion of concentric neutral conductors is another potential mode of failure.

Water treeing is the most significant degradation process for polymeric cables. The original design of cables with polymeric sheaths allowed water to penetrate and come into contact with the insulation. In the presence of electric fields water migration can result in treeing and ultimately breakdown. The rate of growth of water trees is dependent on the quality of the polymeric insulation and the manufacturing process. Any contamination voids or discontinuities will accelerate degradation. This has been the reason for poor reliability and relatively short lifetimes of early polymeric cables. As manufacturing processes have improved the performance and ultimate life of this type of cable has also improved. In addition to manufacturing improvements, development of tree retardant XLPE cables and designs to incorporate metal foil barriers and water migration control have further reduced the rate of deterioration due to treeing.

Distribution underground cables are one of the more challenging assets on electricity systems from a condition assessment and asset management viewpoint. Underground cables are relatively expensive and have long effective lifetimes. However, it is very difficult and therefore very expensive to obtain meaningful condition information for buried cables. Furthermore, cable systems have a good reliability record and when failures do occur they can be repaired at much lower cost than replacement. For all these reasons, the standard approach to managing cable systems has been monitoring of cable failure rates and the impacts of in service failures on reliability and operating costs. Since it takes significantly longer to locate and repair cable faults to restore power following a failure in case of direct buried cables, the consequences of failures are significantly higher in case of direct buried cables in relation of cables installed in duct and manhole system. This results in typical useful life of direct buried cables to be significantly less than the cables installed in duct/manhole systems.

ASSET	USEFUL LIFE		
COMPONENTIZATION	MIN UL	TUL	MAX UL
Primary TR XLPE Cables - Direct Buried	25	30	35

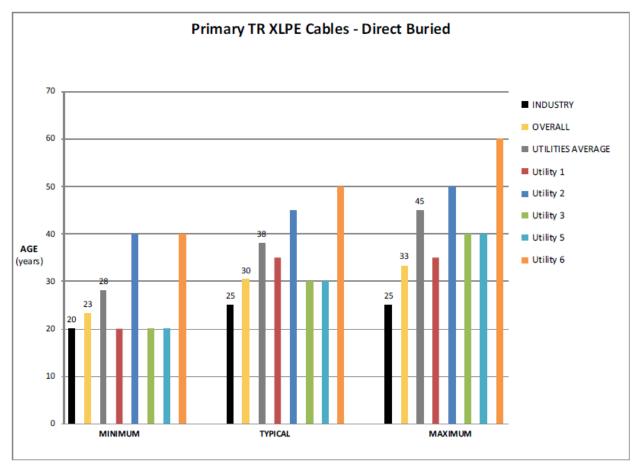


Exhibit 15: Typical Useful Life of Direct Buried Cables (Kinectrics Report)

As summarized in Exhibit 15, the Kinectrics report concludes 30 years to the typical useful life for this asset and we agree with their conclusion.

## 4.6. Primary Cable in Duct

This asset experiences the same degradation modes as described above for direct buried cables. The key difference is following an outage, the cable faults can be located and cables repairs with significantly greater speed, in relation to direct buried cables. The cost of repairs is also less because there is no resurfacing required after cable replacement. As a result primary cables in duct typically provide a longer service life in relation to direct buried cables.

ASSET	U SEFUL LIFE			
COMPONENTIZATION	MIN UL	TUL	MAXUL	
Primary TR XLPE Cables - In Duct	35	40	55	

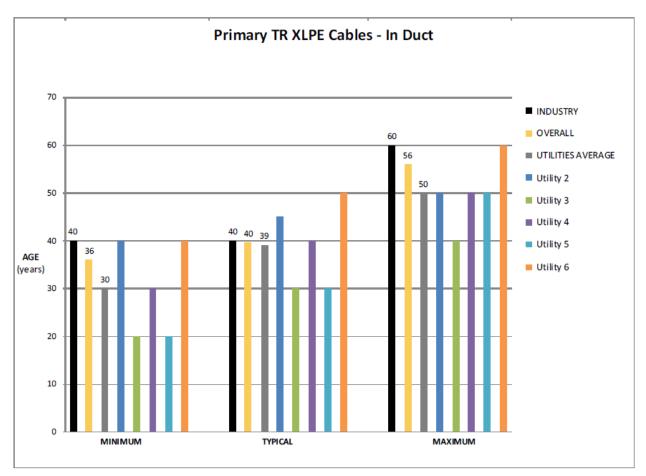


Exhibit 16: Typical Useful Life of Direct Buried Cables (Kinectrics Report)

As summarized in Exhibit 16, Kinectrics report concludes 40 years to the typical useful life for this asset and we agree with their conclusion.

# 4.7. Secondary Cable Direct Buried

Secondary cables or low voltage cables may employ either copper or aluminium conductors and often used cross linked polyethylene (XLPE) insulation. The minimum thickness of insulation in LV cables is dictated by the risk of mechanical damage during installation rather than by insulation degradation from electrical stress. The end of useful service life commonly occurs due to mechanical damage or overloading.

ASSET	U SEFUL LIFE			
COMPONENTIZATION	MIN UL	TUL	MAXUL	
Secondary Cables - Direct Buried	25	35	40	

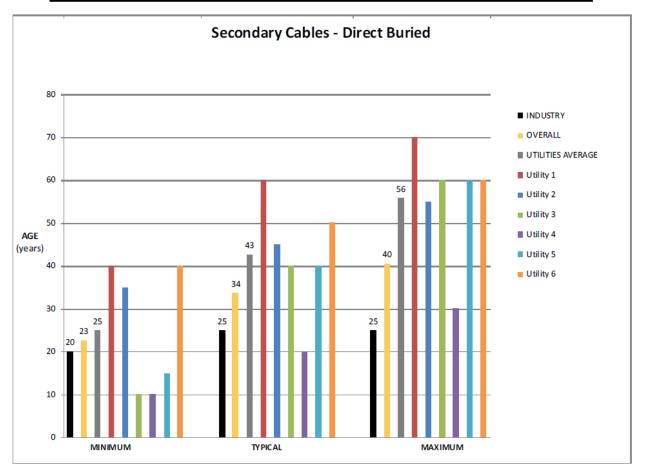


Exhibit 17: Typical Useful Life of Secondary Direct Buried Cables (Kinectrics Report)

Exhibit 17, reproduced above from the Kinectrics report, suggests typical useful life of 35 years for direct buried secondary cables. The six utilities surveyed by Kienctrics reported typical useful life for secondary cables of 20, 40, 40, 45, 50 and 60 years, which yields mean typical mean life of 42 years. Kinectrics report suggests typical service life of 20 years for direct buried secondary cables, based on the general industry experience. In our opinion there is no evidence to support the assumed industry wide service life of 20 years for low voltage cables.

We recommend based on the average of six utilities responding to Kinectrics survey, the typical useful life of this asset should be 42 years.

#### 4.8. Other Assets Employed on Underground Distribution System

For all of the remaining assets employed on the underground distribution system, in our opinion the estimates of the typical useful life provided in the Kinectrics report accurately represent the typical useful life for each of those assets.

# **5** Auxiliary Assets

We have reviewed the methodology for determining the typical useful life as well as the recommended typical useful life of various auxiliary assets provided in the Kinectrics report, including buildings, office equipment, motor vehicles, computer hardware and software and concur with the findings and conclusions documented in the Kinectrics reports for each of the assets in this category.

Code 1301



Canada Revenue Agence du revenu Agency du Canada

# SCIENTIFIC RESEARCH AND EXPERIMENTAL DEVELOPMENT (SR&ED) EXPENDITURES CLAIM

#### Use this form:

- to provide technical information on your SR&ED projects;
- to calculate your SR&ED expenditures; and
- to calculate your qualified SR&ED expenditures for investment tax credits (ITC).

#### To claim an ITC, use either:

- Schedule T2SCH31, Investment Tax Credit Corporations, or
- Form T2038(IND), Investment Tax Credit (Individuals).

The information requested in this form and documents supporting your expenditures are prescribed information.

Your SR&ED claim must be filed within 12 months of the filing due date of your income tax return.

To help you fill out this form, use the T4088, Guide to Form T661, which is available on our Web site: www.cra.gc.ca/sred

#### Part 1 – General information

010 Name of claimant	Enter one of the following:	
		1
Oshawa PUC Networks Inc.	89172 5210	
-	Business num	iber (BN)
Taxyear From: 2013-01-01		
Year Month Day		
то: 2013-12-31		
Year Month Day		
<b>050</b> Total number of projects you are claiming this tax year:	Social insurance r	number (SIN)
3		
100 Contact person for the financial information	105         Telephone number/extension         1	10 Faxnumber
DAVID SAVAGE	(905) 743-5219	(905) 723-3248
115 Contact person for the technical information		25 Faxnumber
DAVID SAVAGE	(905) 743-5219	
151 If this claim is filed for a partnership, was Form T5013 filed?		1 Yes 2 No
If you answered <b>no</b> to line 151, complete lines 153, 156 and 157.		
153 Names of the partners	<b>156</b> %	157 BN or SIN
1		
2		
3		
4		
5		

#### Part 2 - Project information

CRA internal form identifier 060 Code 1301

Complete a separate Part 2 for each project claimed this year.

#### Section A - Project identification

200 Project title (and identification code if applicable)

See schedule



What did you spend on your SR&ED projects?

#### Part 3 – Calculation of SR&ED expenditures

Section A – Select the method to calculate the SR&ED expenditures		
I elect (choose) to use the following method to calculate my SR&ED expenditures and related investment tax credits (ITC) for this tax I understand that my election is irrevocable (cannot be changed) for this tax year.	year.	
160 X lelect to use the proxy method (Enter "0" on line 360. Complete Part 5 and you do not need to track any expenditure incurred for overhead)		
162 I choose to use the traditional method (Enter "0" on line 355. Complete line 360, and track any expenditure incurred for overhead)		
	$\sim$	
Section B – Calculation of allowable SR&ED expenditures (to the nearest dollar)		
<ul> <li>SR&amp;ED portion of salary or wages of employees directly engaged in the SR&amp;ED:</li> </ul>	$\sim$	
a) Employees other than specified employees for work performed in Canada	300 +	122,982
b) Specified employees for work performed in Canada	305 +	
Subtotal (add lines 300 and 305)	306 =	122,982
c) Employees other than specified employees for work performed outside Canada (subject to limitations – see guide)	307 +	122,702
d) Specified employees for work performed outside Canada (subject to limitations – see guide)	309 +	
• Salary or wages identified on line 315 in prior years that were paid in this tax year	310 +	
Salary or wages incurred in the year but not paid within 180 days of the tax year end 315		
Cost of materials consumed in performing SR&ED	320 +	10,131
Cost of materials transformed in performing SR&ED	325 +	
Contract expenditures for SR&ED performed on your behalf:		
a) Arm's length contracts (see note 1)	340 +	3,000
b) Non-arm's length contracts (see note 1)	345 +	
Lease costs of equipment used before 2014:		
a) All or substantially all (90% of the time or more) for SR&ED	350 +	
b) Primarily (more than 50% of the time but less than 90%) for SR&ED. (Enter 50% of lease costs if you use the proxy	055	
method or enter "0" if you use the traditional method)	355 +	
Overhead and other expenditures (enter "0" if you use the proxy method)	360 +	
Third-party payments (see note 2) (complete Form T1263*)	370 +	10/ 110
Total current SR&ED expenditures (add lines 306 to 370; do not add line 315)	380 =	136,113
(Corporations need to adjust line 118 of schedule T2SCH1)	000	42.000
Capital expenditures for depreciable property available for use before 2014     Capital expenditures on achedula T2SCU8	390 +	43,000
(Do not include these capital expenditures on schedule T2SCH8)	100 -	170 110
Total allowable SR&ED expenditures (add lines 380 and 390)	400 =	179,113
Section C – Calculation of pool of deductible SR&ED expenditures (to the nearest dollar)		
Amount from line 400	420	179,113
Deduct		
• provincial government assistance for expenditures included on line 400	429 -	8,033
• other government assistance for expenditures included on line 400	431 -	
non-government assistance for expenditures included on line 400	432 -	
• SR&ED ITCs applied and/or refunded in the prior year (see guide)	435 -	183,934
sale of SR&ED capital assets and other deductions	440 -	
Subtotal (line 420 minus lines 429 to 440)	442 =	-12,854
Add		
repayments of government and non-government assistance that previously reduced the SR&ED expenditure pool	445 +	
prior year's pool balance of deductible SR&ED expenditures (from line 470 of prior year T661)	450 +	
SR&ED expenditure pool transfer from amalgamation or wind-up	452 +	
amount of SR&ED ITC recaptured in the prior year	453 +	
Amount available for deduction (add lines 442 to 453)	455 =	
(enter positive amount only, include negative amount in income)		
	460 —	
Deduction claimed in the year     (Corporations should enter this amount on line 411 of schedule T2SCH1)		

\* Form T1263, Third-Party Payments for Scientific Research and Experimental Development (SR&ED)

Note 1 – For contract expenditures made after 2013, no amounts for purchasing or leasing capital property can be included.

Pool balance of deductible SR&ED expenditures to be carried forward to future years (line 455 minus 460)

Note 2 - For third-party payments made after 2013, no amounts for purchasing or leasing capital property can be included.

470 =

. . . . . .

#### Part 4 – Calculation of qualified SR&ED expenditures for investment tax credit (ITC) purposes

The resulting amount is used to calculate your refundable and/or non refundable ITC.			
Enter the breakdown between current and capital expenditures (to the nearest dollar)	Current Expenditures		Capital Expenditures
Total expenditures for SR&ED (from lines 380 and 390)	136,113	496	43,000
Add			
payment of prior years' unpaid amounts     (other than salary or wages)		<b>N</b> A	
prescribed proxy amount (complete Part 5)		<u> </u>	
(Enter "0" if you use the traditional method)	72,264	Y Y	
• expenditures on shared-use equipment for property acquired before 2014	· · · · · · · · · · · · · ,	504 +	
• qualified expenditures transferred to you (see note 3) (complete Form T1146**) 508 +		510 <sup>2</sup> +	
Subtotal (add lines 492 to 508, and add lines 496 to 510)	208,377	512 =	43,000
Deduct (see note 4)		7	
• provincial government assistance 513	9,350	514 –	1,935
• other government assistance		516 -	
<ul> <li>non-government assistance and contract payments</li></ul>		518	
amounts paid in respect of an SR&ED contract to a person or partnership that is not a taxable supplier			
20% of expenditures included on lines 340 and 370 that were incurred after December 31, 2012	600		
• prescribed expenditures not allowed by regulations (see guide)		532 –	
• other deductions (see guide)		535	
non-arm's length transactions			
– assistance allocated to you (complete Form T1145*) $\ldots \ldots 538$ – _		540 -	
<ul> <li>expenditures for non-arm's length SR&amp;ED contracts (from line 345)</li> <li>adjustments to purchases (limited to costs) of goods and services from non-arm's length suppliers (see guide)</li> </ul>		543 –	
– qualified expenditures you transferred (complete Form T1146**)		546 -	
Subtotal (line 511 minus lines 513 to 544 and line 512 minus lines 514 to 546) 557 =	198,427	558 =	41,065
Qualified SR&ED expenditures (add lines 557 and 558)		559 =	239,492
Add			
repayments of assistance and contract payments made in the year		560 +	
Total qualified SR&ED expenditures for ITC purposes (add lines 559 and 560)		570 =	239,492

\* Form T1145, Agreement to Allocate Assistance for SR&ED Between Persons Not Dealing at Arm's Length

\*\* Form T1146, Agreement to Transfer Qualified Expenditures Incurred in Respect of SR&ED Contracts Between Persons Not Dealing at Arm's Length

Note 3 - On line 510 (capital) - Only include expenditures made before 2014 by the transferor (performer). Complete the latest version of Form T1146.

Note 4 – On lines 514, 516, 518, 532, 535, 540, 543 and 546 – Only include amounts related to expenditures of a capital nature made before 2014.

#### Part 5 – Calculation of prescribed proxy amount (PPA)

#### A notional amount representing your overhead and other expenditures.

This part calculates the PPA to enter on line 502 in Part 4. Do not complete this part if you have chosen to use the traditional method in Part 3 (line 162). You can only claim a PPA if you elected to use the proxy method for the year in Part 3 (line 160).

Special rules apply for specified emp	loyees. Calculate your	salary base in	Section A and the F	PA in Section B.			
Section A – Salary base							
Salary or wages of employees other	than specified employ	ees (from lines	300 and 307)			. 810 +	122,982
Deduct							
Bonuses, remuneration based on pr	ofits, and taxable bene	fits that were in	cluded on line 810			. 812 –	2,542
Subtotal (line 810 minus 812)						.814 =	120,440
0-1							
Salary or wages of specified em		0 <b>5</b> 4	050	050		$\bigcirc \lor$	
850 Column 1	852 Column 2	854 Column 2	856 Column 4	858 Column 5	860		
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	1. V	
Name of specified employee	Total salary or wages for the year (SR&ED and non-SR&ED) excluding bonuses, remuneration based on profits, and taxable benefits (to the nearest dollar)	% of time spent on SR&ED (maximum 75%)	Amount in column 2 multiplied by percentage in column 3	2,5 x A x B/365 A = Year's maximum pensionable earnings B = Number of days employed in tax year	Amount in column 4 or 5, whichever amount is less		
			(Enter total of co	lumn 6 on line 816)			
						816 +	
Salary base (total of lines 814 and 8	316)			<u>)</u>		. 818 =	120,440
Section B – Prescribed prox	y amount (PPA)						
Enter 65% of the salary base (line 8 and less 10% of the salary base for the salary ba						. 820 =	72,264
Enter the amount from line 820 o	n line 502 in Part 4 ur	iless the over	all cap on PPA ap	plies to you.			

(See the guide for explanation and example of the overall cap on PPA)

#### Part 6 – Project costs

Information requested in this part must be provided for all SR&ED projects claimed in the year. Expenditures should be recorded and allocated on a project pasis.

	750	752	754	756
	Project title or identification code	Salary or wages in the tax year	Cost of materials in the tax year	Contract expenditures for SR&ED performed on your behalf in the tax year
		(Total of lines 306 to 309)	(Total of lines 320 and 325)	(Total of lines 340 and 345)
1.	13-01 High Availability in virtual Infrastructure	5,594		
2.	13-03 Advancing Distribution Automation Techniques	98,529	10,131	3,000
3.	13-04 Improving reliability of Critical Infrastructure	18,859		
	Total	122,982	10,131	3,000

#### Part 7 – Additional information

Expenditures for SR&ED performed by you in Canada (line 400 minus lines 307, 309, 340, 345, and 370)	605	176,113
From the total you entered on line 605, estimate the percentage of distribution of the sources of funds		
for SR&ED performed within your organization.	Canadian (%)	Foreign (%)
Internal	100.000	0 ( )
Parent companies, subsidiaries, and affiliated companies	604	
Federal grants (do not include funds or tax credits		
from SR&ED tax incentives)		
Federal contracts	🕅	
Provincial funding		)
SR&ED contract work performed for other companies on their behalf	614	
Other funding (e.g., universities, foreign governments)	618	
For statistical purposes indicate whether the work you performed falls within the realm of Basic or Applied research Experimental development (to achieve a technological advancement):	h (to advance scientific knowled	ge) or
620   Basic or Applied research     622   X   Experimental dev	elopment	
Enter the number of SR&ED personnel in full-time equivalents (FTE):		
Scientists and engineers	632	1
Technologists and technicians	634	
Managers and administrators	636	
Other technical supporting staff	638	
Part 8 – Claim checklist		
To ensure your claim is complete, make sure you have:		
1. used the current version of this form		Χ
		X
2. entered the method you have chosen for reporting your SR&ED expenditures in Section A of Part 3 .		
3. completed Part 2 for each project		X
4. filed a completed Schedule T2SCH31 or Form T2038(IND) to claim ITCs on your qualified SR&ED expendit	ures	X
5. filed a completed Form T1145*, T1146**, T1174*** and/or T1263**** including any required attachments, if	applicable	X
To expedite the processing of your claim, make sure you have:		V
1. completed Form T2, Corporation Income Tax Return or Form T1, Income Tax and Benefit Return		X
2. filed the appropriate provincial and/or territorial tax credit forms, if applicable		<b>X</b>
3. retained documents to support the SR&ED work performed and SR&ED expenditures you claimed .		· · · · · · · · · <b>X</b>
4. checked boxes 231 and 232 on page 2 of your T2 return to indicate attachment of Form T661 and Schedule	T2SCH31	Χ

\* Form T1145, Agreement to Allocate Assistance for SR&ED Between Persons Not Dealing at Arm's Length

\*\* Form T1146, Agreement to Transfer Qualified Expenditures Incurred in Respect of SR&ED Contracts Between Persons Not Dealing at Arm's Length

Form T1174, Agreement Between Associated Corporations to Allocate Salary or Wages of Specified Employees for Scientific Research and Experimental Development (SR&ED) \*\*\*

\*\*\*\* Form T1263, Third-Party Payments for Scientific Research and Experimental Development (SR&ED)



## Part 9 – Claim preparer information

Information requested in this part must be provided for each claim preparer that has accepted consideration to prepare or assist in the preparation of this SR&ED claim. Certification is required on lines 935, 970, and 975.

A \$1000 penalty may be assessed if the information requested below about the claim preparer(s) and billing arrangement(s), is missing, incomplete, or inaccurate. Where a claim preparer has prepared or assisted in the preparation of this SR&ED form, the claimant and the claim preparer will be jointly and severally, or solidarily, liable for the penalty.

935 Was a claim preparer engaged in any aspect of the preparation of this SR&ED claim?

Yes (complete the claim preparer information table and lines 970 and 975 below)

2. No (complete lines 970 and 975)

#### Claim preparer information table

1.

	940	945	950	955	960	965
	Name of claim preparer (company or individual)	Business number	Billing arrangement code (see codes*)	Billing rate (percentage, hourly/daily rate or flat fee)	Other billing arrangement(s) (Maximum 10 words)	Total fee paid, payable, or expected to pay
1.				s 4		
				6	Total	
* Billing	arrangement codes				)	
Code	Type of billing arrangement			$\sim$		
1	Contingency fee arrangement – where the fe	e is based on a percenta	ge of the investm	nent tax credit earned		
2	Hourly rate	1	0			
3	Daily rate		ŀ	$\angle \bigcirc$		
4	Flat fee arrangement (lump sum)					
5	Other arrangements - describe the arrange	ment in box 960 in 10 wor	ds or less	<u>~</u>		
970 I, and	PHIL MARTIN Name of authorized signing officer of the corp d accurate.	poration , or individual (print)	,	certify that the informa	ation provided in this part is c	2014-06-26
	Signature	Ň	$\overline{\nabla}$			Year Month Day
Part 10	PREPARED SOLELY FO	R INCOME TAX PURPOSES WITHOUT	AUDIT OR REVIEW FRO	M INFORMATION PROVIDED BY 1	'HE TAXPAYER.	
	hat I have examined the information provided o	on this form and on the att	achments and it	is true, correct, and cc	mplete.	
175	Name of authorized signing officer of the Name of person/firm who com		al	Signatu		Date

#### Part 2 - Project information (continued)

Project number 1

#### CRA internal form identifier 060 Code 1301

Complete a separate Part 2 for	r each project claimed this year.
--------------------------------	-----------------------------------

Secti	n A – Project identification
200 F	oject title (and identification code if applicable)
	3-01 High Availability in virtual Infrastructure
<b>202</b> F	oject start date 204 Completion or expected completion date 206 Field of science or technology code
	2013-01 2013-12 (See guide for list of codes)
	Year Month Year Month 1.02.02 Information technology and bioinformatics (Software e
Projec	claim history
200	Continuation of a previously claimed project 210 1 X First claim for the project
208	
<b>218</b> <sub>V</sub>	as any of the work done jointly or in collaboration with other businesses?
lf you a	nswered yes to line 218, complete lines 220 and 221.
220	Names of the businesses 221 BN
1	
2	
3	
Secti	on B – Project descriptions
	hat scientific or technological uncertainties did you attempt to overcome – uncertainties that could not be removed using standard practice?
	faximum 50 lines)
1.	In this project we attempted to improve the redundancy, security and high
2.	availability of our critical business and Power Utility operations
3.	infrastructure that was running on virtual machines built on the IBM blade
4.	chassis. Here, existing infrastructure hosted critical systems such as GIS, MS
5.	Dynamics, MAS Servers and were all required for critical utility specific
6.	operations. Here, the uncertainties were to establish untried techniques at
7.	Oshawa PUC of dynamic fail-over, fault-tolerance and load-balancing using
8.	hosting intelligence center (V-Center) and Virtual Motion (V-Motion) vshpere
9.	(hypervisor) utilities in VM virtual infrastructure and SAN and re-
10.	architecting the solution. Specifically, 🖑
11.	1.) At the outset, it was not possible to establish the processing capacity of
12.	the CPU's in the blade chassis because it was not certain if new process
13.	intensive hosts could be added to the same ESX cluster. In VM Ware
14.	architecture, the hosts by system design should be on the same ESX cluster for
15.	VMotion to take control of a failed virtual machine (host) and dynamically
16.	migrate. That is, we needed to overcome the existing limitations of our
17.	architecture and VM implementation through experimental development.
18.	Additionally, as per our design and existing architecture, there was a
19.	limitation to store the active host instance of the VM server on the SAN. The
20.	limitation was with respect to vmotion being able to source the image from the
21.	SAN datastore in case of a failure of the active host and dynamically build a
22.	new instance of the same image. Furthermore, it was not unknown how to synchronize this process with the SAN Controllers
25.	
<b>244</b> V	hat work did you perform in the tax year to overcome the scientific or technological uncertainties described in Line 242?
(	ummarize the systematic investigation or search) (Maximum 100 lines)
1.	Since the hypothesized technique of delivering high availability and
2.	redundancy in virtual machines was new within Oshawa PUC, we worked with the
3.	vendor to establish the new architecture with respect to VM-ware specifics
4.	(Fault Tolerance, Distributed Resource Scheduler (DRS) configuration rules,
5.	and Host Profiles). We started the SR&ED project by first developing threshold
6.	profiles for the network and storage and capacity. Based on this, we began to
7.	scale the architecture and increased the processing power with 2 additional

blades-servers so that they could be added to the same ESX cluster. Next, we

integrated a redundant fiber module (Brocade). Based on our target

8.

9.

244	What work did you perform <b>in the tax year</b> to overcome the scientific or technological uncertainties described in Line 242? (Summarize the systematic investigation or search) ( <i>Maximum 100 lines</i> )
10.	architecture, the failover and load-balancing was envisioned to be achieved
11.	using the Fiber module and connect the Blade chassis to the SAN. Using this
12.	method we addressed the single-point-of-failure issue that existed in our
13.	earlier architecture. System-wide testing (conducted toward the end of the
14.	experiment) showed additional benefits, such as the ability to increase
15.	performance of data communication between the blade and SAN. Simultaneously,
16.	we integrated a switching device (Cisco Switch) to expand the solution. Our
17.	hypothesis was that, we could subsequently leverage the switch to extend the
18.	hosting intelligence center (V-Center) and Virtual Motion (V-Motion) utilities
19.	within the virtualization technology to be fully aware of the layer 2 MAC
20.	addresses and extend VLANs outside the virtualization infrastructure
21.	(Corporate LAN). Next, we experimented with computing resource footprint and
22.	increased the RAM for each blade to 96(MB) so that the storage partition for
23.	the other blades could integrate with the SAN. This upgrade also enabled us to
24.	expand the SAN from the current 4 to 8 hosts and use the VMware ESXi5.1 for
25.	Vmotion and Fault-tolerance capabilities. During the same attempt, we expanded
26.	the number of SAN data-stores by optimizing SAN operating parameters. This
27.	development provided a method to synchronize the SAN with the VM
28.	infrastructure. Because our goal was to achieve high-availability and improve
29.	security of the leveraged active-directory and used a centralized password-
30.	management database. The database was an open-source implementation of
31.	password and key management vault. Through experimental testing, we configured
32.	Vmotion, DRS and Fault-Tolerance capabilities for optimal performance in a
33.	high-availability scenario. Next, the Vcenter was modified for managing the
34.	ESXi 5.1 enterprise hosts. Next we created 2 virtual cluster and added all the
35.	ESXi hosts to the virtual clusters (for context, the critical systems - GIS,
36.	MS Dynamics, MAS Servers are ESXi hosts based). Through analysis and testing,
37.	we developed a method to migrate the existing systems to SAN. Our method
38.	consisted of migrating the VM hosts from the local disk in the Blade chassis
39.	to the SAN datastore onto new instances of windows base operating system.
40.	However, being a virtual infrastructure, it was not possible to have
41.	application visibility and we devised an alternative method and consisted of
42.	leveraging a client-server based method by Deveraging and integrating COTS
43.	software (LAN Guardian). Here, our goal was to passively capture the traffic
44.	flowing through the network switch and analyze packets which could lead us to
45.	profiling an application and its location in the virtual infrastructure.
246	

246 What scientific or technological advancements did you achieve as a result of the work described in Line 244? (Maximum 50 lines)

1.	The advancements being sought in this project are development of methods and
2.	know-how for redundancy, security and high availability of our critical
3.	business and Power Utility operations infrastructure that was running on
4.	virtual machines built on the IBM blade chassis. Here we overcame the
5.	limitations of our existing architecture that could not be made highly
6.	available for dynamic fail-tolerance and load-balancing by
7.	leveraging Vmotion, Vcenter, Vshpere (hypervisor). Specifically,
8.	1.) We gained know-how to increase the processing capacity and expand the
9.	capabilities of our architecture so that additional hosts can be made part of
10.	the same ESX eluster and facilitate VMotion to take control of a failed
11.	virtual machine (host) and migrate dynamically. In the same attempt, we gained
12.	knowledge to develop a method to store an active host instance of the VM
13.	server on the SAN so that; vmotion can source the image from the SAN datastore
14.	in case of a failure of the active host and dynamically build a new instance
15.	of the same image. Here we gained knowledge on how to synchronize the SAN
16.	Controllers, SAN datastore and VM host migration during failure by leveraging
17.	a Fiber module that connected the Blade chassis to the SAN. During development
18.	we devised a method so that the hosting intelligence center (V-Center) and
19.	Virtual Motion (V-Motion) utilities within the virtualization technology to be

#### 20. fully aware of the layer 2 MAC addresses and extend VLANs outside the

21. virtualization infrastructure by integrating additional network switches

Section C – Additional projec	t information					
Who prepared the responses for Sec	tion B?					
<b>253</b> 1 Employee directly invol the project	ved in 254 Nar	ne				
255 1 Other employee of the o	company 256 Nar	ne			X	
<b>257</b> 1 X External consultant	<b>258</b> Nar KF	me PMG LLP		259 Firm KPMG L		
List the key individuals directly involve	d in the project and indicate	e their qualifications			A V	
260	Names		<b>261</b> Qua	lifications/experience	e and position title	
1 Mo Bhuyan			BSc (Information & De Oshawa PUC	cision Sys) 10 f yrs	Systems Devlopmer	nt IT Manager at
2					Ŋ.	
3				C.Y		
<b>265</b> Are you claiming any salary or w	ages for SR&ED performe	d outside Canada?			1 🗌 Yes	2 X No
266 Are you claiming expenditures f	or SR&ED carried out on b	ehalf of another par	ty?	<i></i>	1 🗌 Yes	2 X No
267 Are you claiming expenditures for	or SR&ED performed by pe	ople other than you	r employees?	9	1 Yes	2 X No
			$\sim$			
If you answered yes to line 267, comp	plete lines 268 and 269.					
268	Names of individe	uals or companies			<b>269</b> BI	N
1						
-			_ (\$2)			
What evidence do you have to suppor You do not need to submit these items			rotain tham in the event of	aroviow		
			⊾ )/			
<b>270</b> 1 X Project planning docume		276 1	Progress reports, minute est protocols, test data,			
271 1 time sheets	beated to the project,	277	conclusions	analysis of test res	uits,	
<b>272</b> 1 X Design of experiments		278 1	Photographs and videos			
273 1 Project records, laborator		279 1	] Samples, prototypes, scr	ap or other artefacts	3	
<b>274</b> 1 X Design, system architect	ure and source code	280 1	Contracts			
<b>275</b> 1 Records of trial runs		<b>281</b> 1 X	Others, specify <b>282</b>	Technical Emails		
	ure and source code					

Project number 2

CRA internal form identifier 060

#### Part 2 - Project information (continued)

Compl	te a separate Part 2 for each project claimed this year.		Code 1301
Secti	on A – Project identification		
200 🛛	roject title (and identification code if applicable)		
	3-03 Advancing Distribution Automation Techniques		
<b>202</b> F	roject start date 204 Completion or expected completion date	<b>206</b> Field of science or technology coo	le
	2013-01 2013-12	(See guide for list of codes)	$\mathbb{M}$
	Year Month Year Month	2.02.05 Automation and contro	l systems
Projec	claim history		
208	Continuation of a previously claimed project 210 1 X First claim for th	e project	⊳ <sup>v</sup>
218			1 Yes 2 X No
-	/as any of the work done jointly or in collaboration with other businesses?	······································	1 Yes 2 X No
	nswered <b>yes</b> to line 218, complete lines 220 and 221.		
220	Names of the businesses	221	BN
1			
2		C	
3			
U			
Secti	on B – Project descriptions		
242 V	/hat scientific or technological uncertainties did you attempt to overcome – uncertainti	es that could not be removed using standard	d practice?
1.	<i>Maximum 50 lines)</i> We attempted to develop Smart-Grid-Distribution-Autø	ention comphiliting with	
2.	the goal of gaining power systems state visibility i		
3.	installed in downtown vaults from SCADA system and d		
4.	automatic circuit reclosing in rural stretches of th		
5.	Here, the technological uncertainties were related t		
6.	for monitoring and control and there were no previou	s Oshawa PUC distribution	
7.	network standards for such implementations. Specific		
8.	1.) 13.8 kV switches by electrical and mechanical de		
9.	SF6 (6'X6') switches and weigh close to 1000 lbs. At		
10.	unknown if additional electro-magnetically sensitive Transformers and Potential-Transformer measurement a		
12.	could be installed in the same vault without electro		
13.	an already space constraint vault. During developmen		
14.	extract the electrical measurement variables from th		
15.	feed from the RTU and IED to SCADA System. The elect		
16.	variables that could be extracted were already in us		
17.	System within the Switches. Furthermore, it was unce	rtain which of the	
18.	possible ways could optimally convey context that wa	-	
19.	electrical state. Here, alternative methods to source		
20.	variables and communicate with the SCADA using eithe		
21.	systematically evaluated 2.) Reclosers in general a		
22.	transient-and-random faults in long-stretches of the Oshawa PUC, these reclosers were vintage oil filled		
23.	communications and often located in rural areas. How		
25.	reliability of these sections of the distribution ne	-	
26.	experimented with advanced recloser and automation t		
27.	could be extended to SCADA systems. Here, it was unc		
28.	control the Solid Dielectric Triple Option Reclosers		
29.	develop the control algorithm so that it could be us	ed in both 3-phase and	
30.	single-phase lines rated through 38kV, 800A continuo	us current and 12.5kA	
31.	symmetrical interrupting. The know-how on how to int		
32.	effectively and reliably did not exist (at Oshawa Po	wer)	

What work did you perform **in the tax year** to overcome the scientific or technological uncertainties described in Line 242? (Summarize the systematic investigation or search) (*Maximum 100 lines*)

	What work did you perform in the tax year to overcome the scientific or technological uncertainties described in Line 242? Summarize the systematic investigation or search) ( <i>Maximum 100 lines</i> )
1.	1.) The capability of controlling the switches remotely from the SCADA and
2.	visibility into the switches did not exist and the data-points (electrical-
3.	variables) could not be extracted from the CT's that existed in the switches.
4.	The existing data points were used for electrical protection circuits and not
5.	for the purpose of SCADA integration. We hypothesized of scaling the existing
6.	13.8kV switch by integrating with an auxiliary-external-Automation-Package
7.	that is electromagnetically isolated in Stainless-Steel-Enclosure. Integration
8.	components included eighteen split-core Current-Transformers (600:5) CT, two
9.	motor-operators on the Load-Break Ways and two 50' motor cables short-circuit
10.	terminal blocks for connecting the CT secondaries in the control module with
11.	RS232 Communications. It was envisioned that these CT's and control-module
12.	components could provide the electrical state visibility. Our method was a two
13.	step process of fist enabling discoverability and then attempting to control.
14.	To evaluate this, we developed a Proof-of-concept site on the existing field
15.	switch and attempted to integrate the automation package as the conditions
16.	could not be simulated in a lab. Concurrently, we developed new cabling schema
17.	to route the fiber optic cable (LC) from the switches to the SCADA system.
18.	Next, we attempted to establish what electrical variables could be extracted
19.	from these 18 CT. Here, each CT had to tap into various points on the switch
20.	to establish parameters such as position, current, voltage at specific data-
21.	points. Next using the DNP3 protocol, we developed DNP3 addressing table
22.	consisting of subset of the data-points to be built into the SCADA-master and
23.	developed a polling-interval to report on the current state and the previous
24.	state. We went through several iterations to determine DNR routing and the
25.	data-points that formed the DNP objects. With this knowledge we attempted to
26.	develop DNP Application layer message handling and control. As there was no
27.	module within the SCADA-HMI for the presentation of these vault switches, we
28.	developed a very specific HMI presentation that used SCADA programming
29.	components and methods. Next, we attempted to tag the data-points from the DNP
30.	mapping table onto the HMI presentation. Testing was partially successful.
31.	Here, we could not integrate the TRIP modules from the 13.8 kV switch into the
32.	SCADA. On analysis, we observed that the TRIP-module could not communicate to
33.	the SCADA using DNP3. Here, we evaluated two options of using either a media-
34.	conversion-device at the TRIP-module (MODBUS-to-DNP3) or using specific MODUS
35.	module on the SCADA. Additional work will be carried out during the next
36.	fiscal year. Next, we hypothesized and developed a method to extend the
37.	communications capability of our SCADA system so that the local interface for
38.	Oshawa PUC could communicate on DNP3 while the external interface communicated
39.	on ICCP (Inter-Control Center Communications Protocol) for data transfer
40.	between two or more SCADA/EMS master stations.
41.	2.) We attempted to integrate solid-dielectric-triple-option-recloser (G&W's
42.	Viper-ST) to alleviate situations of transient and random faults in long-haul
43.	stretches of the distribution network. The intent was to develop automation
44.	methods of pre-defined opening and closing the circuits, bringing back to
45.	steady-state and improve the reliability of delivering power. Here, the
46.	process was 1 trip/1 lockout,1 trip/3 lockout and 3 trip/3lockout with
47.	protection for systems through 38kV maximum, 800A continuous current
48.	and 12.5kA symmetrical interrupting. The control for this solution was
49.	provided by an auxiliary control module (Schweitzer) that integrated into the
50.	recloser. Here, we setup a POC for both a single-phase as well as three-phase
51.	scenarios. We experimented and developed the Trip and Target combinational
52.	logic algorithms for Single-phase reclosers (Switch-Onto-Fault Trip Logic,
53.	Three-Phase Trip-Input Logic and Single-Phase-Trip Logic). Next, we developed
54.	a different combinational logic (Three-phase reclosers i.e. Switch-Onto-Fault
55.	Trip Logic, Three-Phase-Trip-Input-Logic and Three-Phase-Trip-Output-Logic).
56.	Next we developed the Close and Reclose combinational logic. Here we
57.	experimented with Three-phase reclosers or single-phase reclosers operating in
58.	a three-phase mode and Single-phase reclosers operating in a single-phase
CODDOD	ATE TAXPREP / TAXPREP DES SOCIÉTÉS - EP21 VERSION 2014 V1.0 Page 2

	What work did you perform <b>in the tax year</b> to overcome the scientific or technological uncertainties described in Line 242? (Summarize the systematic investigation or search) ( <i>Maximum 100 lines</i> )
59	. mode. Next, we worked with the Breaker-Status-Logic to evaluate how the
60	· effective breaker status is derived for the required application, three-phase
61	. or single-phase mode.
62	•

246	What scientific or technological advancements did you achieve as a result of the work described in Line 244? (Maximum 50 lines)
1.	The advancements being sought in this project is the know-how and developing
2.	techniques that will provide Smart Grid Distribution Automation capabilities
3.	for gaining power systems state visibility and control from the SCADA system
4.	into 13.8 kV switches installed in downtown vaults and develop methods for
5.	automatic circuit reclosing in rural stretches of the distribution network. In
6.	addition, these advancements will lead to the development of Oshawa PUC
7.	specific distribution methods and standards. Specifically, the advancements
8.	are
9.	1.) Developing a technique to integrate auxiliary external Automation Package
10.	with 18 CT's to extract electrical variable/data points from the 13.8kV
11.	switches to provide the status/electrical state of the switches. Here, we
12.	overcame electromagnetic interference and foot-print constraints through the
13.	vertical design and steel casing. During the same pursuit, we leveraged DNP3
14.	protocol and developed mapping and routing that was abstracted to a newly
15.	developed SCADA HMI presentation and developed DNP3 control messaging for
16.	remotely controlling the actuation of the switches. Additionally, we developed
17.	a method to gain visibility and message to 3rd party system that utilized
18.	ICCP. Here, we enabled local interface for Oshawa PUC SCADA to communicate on
19.	DNP3 while the external interface communicated on ICCP (Inter-Control Center
20.	Communications Protocol) for data transfer
21.	
22.	2.) We developed know-how to automatically control the Solid Dielectric Triple
23.	Option Reclosers that could be later integrated into the SCADA system. In this
24.	year, we integrated the reclosers with the goal of achieving automation for
25.	alleviating transient and random faults in long haul stretches of the
26.	distribution network. That is, 3-phase and single-phase lines rated through
27.	38kV, 800A continuous current and 12.5kA symmetrical interrupting.

A					
Section C – Additional project information					
Who prepared the responses for Section B?					
253   1   Employee directly involved in the project   254   Name					
255 1 Other employee of the company					
257 1 X External consultant 258 Name	259 Firm				
KPMG LLP	KPMG LLP				
List the key individuals directly involved in the project and indicate their qualifications.	/experience.				
260 Names	261 Qualifications/experience and position title				
1 Jayesh Shah	M.Esc. /P.Eng/15 + yrs in Distribution sys dev/ Director Asset Mgmt & New initiatives OPUC				
2 Eric Andres	B.Eng Elec Eng. / 4+ yrs in Distribution sys dev/ Distribution System EIT/ OPUC				
3 Mo Bhuyan	BSc (Information & Decision Sys) 10+ yrs Systems Devlopment IT Manager at Oshawa PUC				
265 Are you claiming any salary or wages for SR&ED performed outside Canada?					
266 Are you claiming expenditures for SR&ED carried out on behalf of another part	ty? 1 Yes 2 X No				
267 Are you claiming expenditures for SR&ED performed by people other than you	r employees?				

If you answered <b>yes</b> to line 267, complete lines 268 and 269.					
268	Names of individuals or companies	<b>269</b> BN			
1	Survalent Technology	13119 7386 RC0001			
2					

What evidence do you have to support your claim? (Check any th You do not need to submit these items with the claim. However, y	
270 1 Project planning documents	<b>276</b> 1 Progress reports, minutes of project meetings
271 Records of resources allocated to the project, time sheets	277 1 Test protocols, test data, analysis of test results, conclusions
<b>272</b> 1 Design of experiments	278 1 Photographs and videos
273 1 Project records, laboratory notebooks	<b>279</b> 1 X Samples, prototypes, scrap or other artefacts
274 1 X Design, system architecture and source code	280 1 Contracts
275 1 Records of trial runs	281 1 X Others, specify 282 Technical Emails

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#### Part 2 - Project information (continued)

Project number 3

#### CRA internal form identifier 060 Code 1301

Complete a separate Part 2 for each project claimed this year.

Secti	Section A – Project identification						
200 Project title (and identification code if applicable)							
	13-04 Improving reliability of Critical Infrastructure         Project start date       204 Completion or expected completion date         206 Field of science or technology code	le					
	2013-01 2015-01 (See guide for list of codes)	<b>N</b>					
	Year Month Year Month 2.02.01 Electrical and electronic	enaineerina					
Projec	t claim history						
208	1 Continuation of a previously claimed project 210 1 X First claim for the project						
24.0							
	Nas any of the work done jointly or in collaboration with other businesses?	1 Yes 2 X No					
	answered <b>yes</b> to line 218, complete lines 220 and 221.						
220	Names of the businesses 221	BN					
1							
2							
3							
Section	on B – Project descriptions						
	What scientific or technological uncertainties did you attempt to overcome – uncertainties that could not be removed using standard	Inractice?					
	Maximum 50 lines)						
1.	In this project Oshawa PUC attempted to improve the reliable delivery of power						
2.	through our Electrical-distribution network sub-divisions with multiple high-						
3.	voltage conductor intersections and deliver reliable high voltage network with						
4.	the constraints of meeting 600 Amperage capacity in a different section of our						
5.	network. Here the challenges were with respect to designing and integrating						
6.	advanced underground switching devices and design of high voltage cabling						
	7. respectively and; developing non-existent Oshawa PUC specific distribution						
8.	standards. Specifically, the technological uncertainties were:						
9.	1.) At the outset, it was uncertain if the concept of using junction box						
10.	sectionalizing kiosk or bus-bar technology instead of the splice-tap for						
12.	multipath power distribution could be applicable for our requirement of						
13.	maximum voltage of 28kV, Basic impulse level (BIL) 125kV, withstand 45 kV AC						
14.	one minute minimum with a continuous 200/600 Amperes. At the same time, it was						
15.	uncertain if this sectionalizing klosk could be integrated into a primary						
16.	(13.8 kV) primary conductor and not negatively impact the reliability not only						
17.	in terms of component level failure but also the reliability of entire						
18.	solution because there were no established Oshawa PUC standards. Here,						
19.	experimentation had to be conducted on live system to evaluate the reliability						
20.	and formalize the standards.						
21.							
22.	2.) As we attempted to expand certain section of our grid, we were constrained						
23.	by the physical possibilities (geography of the highway, length of cables,						
24.	bends, thickness of cables, underground or above ground layout etc.) of						
25.	developing a solution that could provide reliable high-voltage distribution						
26.	level (13.8kV) infrastructure. Here, several possible alternative topologies						
27.	and designs had to evaluated that would specifically work within the						
28.	geographic and mechanical constraints and still deliver 600 Amperage.						
29.	Therefore the ability to meet our technical goals under such constraints						
30.	simultaneously was the key technological obstacle.						

244 What work did you perform in the tax year to overcome the scientific or technological uncertainties described in Line 242? (Summarize the systematic investigation or search) (*Maximum 100 lines*)

1. 1.) Based on our due-diligence, we hypothesized of using the concept of

2. junction box sectionalizing kiosk instead of the splice-tap or bus-bar for

244 W	/hat work did you perform <b>in the tax year</b> to overcome the scientific or technological uncertainties described in Line 242? Summarize the systematic investigation or search) ( <i>Maximum 100 lines</i> )
	multipath power distribution to improve reliability during faults. Here, the
	premise was that the switching nature of sectionalizers and integrated load
	based (electrical fuse-tripping) could be leveraged to provide fault isolation
6.	and alleviate the current situation where upstream power distribution was
7.	impacted during faults. As this was a new implementation at Oshawa PUC, during
8.	the first iteration, we attempted to develop design specifications. Based on
<u>9.</u>	the ANSI/IEEE Standard C37.73" standard for Pad-Mounted fused switchgear and
<u>).</u> 10.	IEEE 386 standard for separable insulated connector system for power
	distribution systems above 600V we developed the design. The design consisted
12.	of load breaking interface and for a maximum voltage of 28 kV, Basic impulse
13.	level (BIL) 125kV, withstand 45 kV AC one minute minimum with a continuous
14.	
	200/600 Amperes In order to evaluate the performance applicability of the
15.	sectionalizers and gain knowledge to deploy and integrate into our grid, we
	conducted a live proof-of-concept by testing the sectionalizers for
	performance and reliability over time. The results of this experiment showed
	positive results and we improved our mean-time-to-repair.
19.	
20.	
21.	2.) Given the constraints of our target operating environment, we hypothesized
22.	of developing a solution that would be flexible enough for either underground
23.	or above ground, with solution design consisting of a combination of 500 MCM
24.	and 1000 MCM copper cables for delivering the 600 Amperage 13.8kV level
25.	primary conductors. However, our challenges during each design iteration was,
26.	to develop methods such that number of conductors could be bent around
27.	corners, can be easily accessible to solve future maintenance faults and would
28.	not mechanically destroy (pulling tension) the cables as they went through
29.	ducts in underground sections of the topology. Here, some of the mechanical
30.	design calculations for underground ducts were in coming tension calculations
31.	feeding off reel horizontally or feeding off reel vertically, coefficients of
	friction measured as friction between a moving conductor and the conduit, Jam
	Ratio, weight correction factor, sidewall pressure and bend radius. These
34.	calculations were simultaneously applied to the electrical design
35.	specifications for determining number of conductors and size of conductor
36.	(500MCM and 1000MCM). With this knowledge gained, we developed crossing
37.	designs using the 500 MCM where the 407 crosses Thornton Rd. N. Ritson. Design
38.	specifications were developed for ducts (primary and for fiber), duct
<u>39.</u>	structure and environmental factors such as thermal soil resistivity etc.
	During the next design iteration, we worked with 1000 MCM cable because of the
	physical constraints of the geography of the crossing and to meet ampacity
42.	requirement. This work was carried out in the following fiscal year.
<b>246</b> W	/hat scientific or technological advancements did you achieve as a result of the work described in Line 244? (Maximum 50 lines)
1.	The advancements being sought in this project are to experimentally design and
2.	develop methods to improve the reliable delivery of power in sub-divisions
	with multiple conductor intersections and deliver reliable high voltage
	network with the constraints of meeting 600 Amperage capacity. Here we
<u></u> 5.	overcame challenges with respect to integrating advanced underground switching
5. 6.	devices and design of high voltage cabling respectively and during the process
	we gained know how on how to achieve our technical goals. Additionally, the
8.	advancements will enable the development of Oshawa PUC standards.
9.	Specifically,
10.	1.) We developed a method of integrating the junction box sectionalizing kiosk
11.	instead of the splice-tap or Bus-bar technology for multipath power
12.	distribution that could deliver maximum voltage of 28 kV, Basic impulse level
13.	(BIL) 125kV, withstand 45 kV AC one minute minimum with a continuous 200/600
14. 15.	Amperes. In this pursuit we gained knowledge in terms of developing distribution code specifications and method to physically and electrically

		03172 3210100001			
16.	deploy the device on the grid and evaluate rel	iability.			
17.					
18.	2.) We developed a method to design and expand our distribution grid in a				
19.	geographically difficult terrain. Here the knowledge gained will improve the				
20.	state of designing distribution networks for l	ong-haul underground highway			
21.	crossing and consisted of utilizing a combinat				
22.	and developing civil specifications that were				
23.	specifications so that the cables could bend a	-			
24.	accessible to solve future maintenance faults	and could withstand mechanical			
25.	stress of maneuvering during installation.				
26.					
0	an O Additional mariant information				
Sect	on C – Additional project information				
Whop	repared the responses for Section B?				
253	1 Employee directly involved in the project 254 Name				
255	1 Other employee of the company				
257	1 X External consultant 258 Name	259 Firm			
	KPMG LLP	KPMG LLP			
	e key individuals directly involved in the project and indicate their qualifications				
260	Names	261 Qualifications/experience and position title			
1 <sup>L</sup>	pri Bootsma	BASC (Elec Eng.) / PEng /Manager, Design at Oshawa PUC Networks, Inc.			
2 <sup>Ja</sup>	ayesh Shah	M.Esc /P.Eng/15 + yrs in Distribution sys dev/ Director Asset Mgmt & New initiatives OPUC			
3 <sup>E</sup>	ric Andres	B.Eng Elec Eng. / 4+ yrs in Distribution sys dev/ Distribution System EIT/ OPUC			
ACE					
	Are you claiming any salary or wages for SR&ED performed outside Canada?				
	Are you claiming expenditures for SR&ED carried out on behalf of another particular the particular pa				
267	Are you claiming expenditures for SR&ED performed by people other than you	r employees?			
lf you	answered <b>yes</b> to line 267, complete lines 268 and 269.				
268	Names of individuals or companies	<b>269</b> BN			
4					
1					
What	evidence do you have to support your claim? (Check any that apply)				
	o not need to submit these items with the claim. However, you are required to	retain them in the event of a review.			
270	1 X Project planning documents	Progress reports, minutes of project meetings			
		Test protocols, test data, analysis of test results,			
271	time sheets	conclusions			
272	1 Design of experiments 278 1	Photographs and videos			
273	1 Project records, laboratory notebooks 279 1	Samples, prototypes, scrap or other artefacts			
274	1 X Design, system architecture and source code 280 1 X	Contracts			
275	1 Records of trial runs	Others, specify 282 _ Technical Emails			

# Federal Tax Instalments

#### - Federal tax instalments -

For the taxation year ended 2014-12-31

Business number 89172 5210 RC0001

The following is a list of federal instalments payable for the current taxation year. The last column indicates the instalments payable to Revenue Canada. The instalments are due no later than on the dates indicated, otherwise non-deductible interest will be charged. A cheque or money order should be made payable to the Receiver General. Payment may be made by cheque or money order payable to the Receiver General either to an authorized financial institution or filed with **the appropriate remittance voucher to the following address**:

Canada Revenue Agency 875 Heron Road Ottawa ON K1A 1B1

Note that you may also be able to pay by telephone or Internet banking. For more information, consult the Corporation Instalment Guide.

#### Monthly instalment workchart

Date	Monthly tax instalments	Refund transferred to instalments	Instalments paid	Cumulative difference	Instalments payable
2014-01-31	12,449	12,449			
2014-02-28	12,449	12,449			
2014-03-31	12,449	12,449		,	
2014-04-30	12,449	12,449	Ľ		
2014-05-31	12,449	12,449			
2014-06-30	12,449	12,449		)	
2014-07-31	12,449	12,449		<i>у</i> —	
2014-08-31	12,449	3,478			8,971
2014-09-30	12,449				12,449
2014-10-31	12,449				12,449
2014-11-30	12,449				12,449
2014-12-31	12,440	A			12,440
			$\mathcal{Y}$		
Totals	149,379	90,621	·		58,758

#### **Quarterly instalment workchart**

Date	Quarterly tax instalments	Refund transferred to instalments	Instalments paid	Cumulative difference	Instalments payable		
2014-03-31							
2014-06-30		V CD A					
2014-09-30	((	h					
2014-12-31							
Totals							
- Instalment method							
Indicate instalment met	hod chosen [1-3] <u>1</u>						
1st Instalment base	method						
If payment of instalments other than quarterly instalments is delayed, indicate the MONTH in which you want							
them to begin (1=January, 2=February, etc.).							
Select this box if you want the instalments to be calculated without taking the applicable threshold into account							

## $_{\Box}$ Quarterly instalments calculation

The corpo	pration must meet requirements 1 to 5 to be eligible for quarterly instalments for a tax yea	r.					
1 – <u>Is</u> th	1 – Is the corporation a Canadian-controlled private corporation (CCPC)?				X Yes		<b>l</b> o
2 – Did	2 – Did the corporation claim any deduction under the section 125, during either the current or previous year?				Yes	X	ło
	<ul> <li>3 – Is the corporation's, or any of its associated corporations', taxable income for the current or previous year</li> </ul>						-
	than or equal to \$500,000?	, 			Yes	<u> </u>	lo
	e corporation and any associated corporations' taxable capital employed in Canada he current or previous year less than or equal to \$10,000,000?				Yes	N	٩o
5 – <u>Doe</u>	es the corporation have a perfect compliance history in the last 12 months?				Yes	<u> </u>	lo
lf you do r	not want to use the quarterly instalments option, select this box to go back to monthly inst	alments.	0		)		
4 4 4 4	t instalment base mathed			T			
	t Instalment base method	140.070	4	S	10	440	
1st install	ment base amount (amount N below)	<u>149,379</u> ÷		V		,449 ,449	
Quarterly	tax instalments required	Monthly instalments red 149/379		<sup>*</sup>	12	,449	
Quarterry			<u> </u>				
- 2 – Ca	ombined 1st and 2nd instalment base method —————		Y				
	s box if you want the first 2 payments* to be calculated						
withoutta	king the applicable threshold into account?						
2nd Mon	thly instalment base amount						
Indicate:	Part I tax						
	Part VI, VI.1 and XIII.1 tax	+					
	Federal adjustment for amalgamation, winding up or transfer	+					
	Provincial tax, other than Alberta, Québec and Ontario	+					
	Ontario tax	+ 96,201					
	Provincial adjustment for amalgamation, winding up or transfer		40			044	
	Total	= <u>98,530</u> ÷	• 12	=		,211	A
1/12 of es	timated current year credits (M below /12)	·				,667	_
		he first two instalment pay 149,379	nents	=	0	,544	В
-	from N below 3 above x 2	- 13,088					
Amount	3 above X 2	= 136,291 +	. 10	_	13	,630	
	Each of the rev	naining ten instalment pay				,630	
						,	
	rterly instalment base amount	0.000					
Indicate:	Part I tax	2,329					
	Part VI, VI.1 and XIII.1 tax	+					
	Federal adjustment for amalgamation, winding up or transfer	+					
	Provincial tax, other than Alberta, Québec and Ontarto	+ 96,201					
	Ontario tax Provincial adjustment for amalgamation, winding up of transfer	+					
	Total	= 98,530 ÷	. 4	=	24	,633	Δ
1/4 of esti	imated current year credits (M below /4)		·	_		,000	
		The first instalment page	vment	=			в
Total tax	from N below	149,379					
Amount E	Babove	-					
		= 149,379 ÷	3	=	49	,793	
	Each of the remains	ining three instalment pay	nents	=			
* It is th	e first payment if the quarterly instalments are applicable.						
2 5-	timated tax mathed						
	stimated tax method		40				
instalmer	nt base amount (amount N below)		. —				
Quartari	tax instalments couliered	Monthly instalments rec	uired 4				
Quarteriy	tax instalments required		• 4	=			

Instalment base calculation		
Federal tax	1stinstalment	Estimated
Taxable income	base method 923,482	taxmethod
	720,402	
Calculation of tax payable		
Federal part I tax	350,923	
Recapture of investment tax credit	+	+
Refundable tax on a CCPC's investment income	+	+
Subtotal	= 350,923	= A
Deduction		
Small business deduction		
	+	
Federal tax abatement	+ 92,348	t
Manufacturing and processing profits deduction	+	~
Non-business foreign tax credit	+	¥ +
Business foreign tax credit	+	<b>)</b> +
Tax reduction, general and accelerated	+ 120,053	۰ + T
Logging tax credit	$+ \longrightarrow \bigcirc $	+
Investment tax credit per Schedule 31	+ (51,898	+
Qualifying environmental trust tax credit	+	+
Subtotal <sup>=</sup>	= 264,299	= B
Federal tax summary	86,624	с
Total part I tax payable (A minus B) Part VI tax	L 00,024	+ D
product and the second s		+ E1
Part XIII.1 tax		+ E2
Parts I, VI, VI.1 and XIII.1 Total	₩ 86,624	= F
Federal adjustments		
Adjustment for short taxation years multiplied by 365 and	x 365 / 365	x 365 / 365
divided by the number of days in the year if less than 365	0007 000	× <u>365 / 365</u>
Federal adjustment for amalgamation, winding up or transfer	= <u>86,624</u>	+ N/A
Total federal tax after adjustments	= 86,624	= G
		0
Provincial tax		
Provincial/territorial tax other than Alberta, Québec and Ontario before provincial refundable tax credits	÷	+ н
Ontario tax		
Income tax 59,915		
Corporate minimum tax paid (credited) + 22,840		
Special additional tax on life insurance corporations +	+	
Total Ontario tax = 82,755	82,755	+ I
Harmonized provincial tax (H + I) Provincial/territorial tax other than Alberta and Québec		
before provincial refundable tax credits	82,755	ر =
Provincial adjustments		
Adjustment for short taxation years multiplied by 365 and	x 365 / 365	× 365 / 365
	0007 000	× <u>365 / 365</u>
Subtotal =	= <u>82,755</u>	+ N/A
Provincial adjustment for amalgamation, winding up or transfer	<b>=</b> 82,755	
Total provincial tax after adjustments	- 02,733	= К
Total of tax before refundable credits**	= 169,379	= L

## $_{ m \square}$ Instalment base calculation (continued) –

Estimated current year credits				
Investment tax credit refund				
Dividend refund	+		+	
Federal capital gains refund	+		+	
Provincial and territorial capital gains refund	+		+	
NRO allowable refund per Schedule 26	+		+	
Tax withheld at source	+		+	
Other estimated credits	+		+	
Provincial/territorial refundable tax credits other than Alberta, Québec and Ontario*	+			
Ontario refundable tax credits*	+	20,000	~ <u>~</u>	
Total estimated current year credits	=	20,000		М
Instalment base amount (L – M)		149,379		Ν

\* For more details with regards to the impact of the refundable tax credits in the instalment base calculation, consult the Help.

\*\* For instalments payable, the amount on line G will only be included in the amount of line L when it exceeds \$3,000. The same rule applies to line K.

Filed: 2015-01-29, EB-2014-0101, Exhibit 4, Appendix 4-5, Page 21 of 112 2013-12-31 Oshawa PUC Networks Inc. 89172 5210 RC0001



Canada Revenue Agence du revenu du Canada

## Information Return for Corporations Filing Electronically

- You have to complete this return for every initial and amended T2 Corporation Income Tax Return electronically filed to the Canada Revenue Agency (CRA) on your behalf.
- By completing Part 2 and signing Part 3, you acknowledge that, under the *Income Tax Act*, you have to keep all records used to prepare your corporation income tax return, and provide this information to us on request.
- Part 4 must be completed by either you or the electronic transmitter of your corporation income tax return.
- Give the signed original of this return to the transmitter and keep a copy in your own records for six years.
- Do not submit this form to the CRA unless we ask for it.
- We are responsible for ensuring the confidentiality of your electronically filed tax information only after we have accepted it.

#### This return is for your records. Do not send it to us unless we ask for it.

– Part 1 – Ident	tification ———			
Name of corporation			Business Number	
Oshawa PUC Ne			89172 5210 RC0001	
	From	То		
Tax year 🕨	Y M D	Y M D	Is this an amended return?	Yes No X
	2013-01-01	2013-12-31		
– Part 2 – Decla	aration ———			
Enter the following a	amounts, if applicable, from your corp	poration income tax return for the tax y	ear noted above:	
Net income or (lo	ss) for income tax purposes from Scl	hedule 1, financial statements or GIFI	(line 300)	933,280
Part I tax payable	(line 700)			86,624
Part II surtax paya	able (line 708)	A		
Part III.1 tax paya	ble (line 710)			
Part IV tax payabl	le (line 712)		<b>)</b>	
Part IV.1 tax paya	able (line 716)	······································	y	
Part VI tax payabl	le (line 720)	······································		
Part VI.1 tax paya	able (line 724)	· · · · · · · · · · · · · · · · · · ·		
Part XIV tax paya	ble (line 728)	•••••••••••••••••••••••••••••••••••••••		
Net provincial and	d territorial tax payable (line 760)	· · · · · · A · · · · · · · · · · ·		62,755
Provincial tax on I	arge corporations (line 765)			
– Part 3 – Certi	fication and authorization	_4\$}		
I, <u>MARTIN</u>	Last name	First name	VP FINANCE Position, offic	, or rank
	ALC: A	1	,	
and statements, an complete. I also cer	d that the information given on the T	2 return and this T183 Corp informatic	on T2 income tax return, including accompanyir in return is, to the best of my knowledge, correc in that of the previous tax year except as specific	tand
	ly filed in response to any errors Cana		turn identified in Part 1. The transmitter can also nuthorization expires when the Minister of Nation	
				(905) 723-4626
Date (yyyy/mm/dd)	) Sig	nature of an authorized signing officer of t	he corporation	Telephone number
- Part 4 - Tran	smitter identification —			
		return of the corporation identified in F	art 1.	
Name of				
	rnst & Young LLP		Electronic filer number	

Privacy Act, Personal Information Bank number CRA PPU 047

Filed: 2015-01-29, EB-2014-0101, Exhibit 4, Appendix 4-5, Page 22 of 112 2013-12-31 Oshawa PUC Networks Inc. 89172 5210 RC0001

*	Canada Revenue Agency	Agence du revenu du Canada	T2 Corporation	Income Tax Return	200
	r Alberta. If the cor		rial corporation income tax return, un ne of these provinces, you have to file		055 Do not use this area
All legisla			deral Income Tax Act. This return ma	ay contain changes that had not yet	
Send one	completed copy of	f this return, including s	chedules and the <i>General Index of F</i> return within six months after the en		
			T4012, T2 Corporation – Income Ta		
			····, · _ · · · · · · · · · · · · · · ·		
	fication —	004			
	s number (BN)	001	89172 5210 RC0001	1	
	tion's name			To which tax year does this return an	
002 (	Shawa PUC Netwo	orks Inc.		Tax year start	<b>061</b> 2013-12-31
	of head office	·····		<u>2013-01-01</u> YYYY MM DD	YYYY MM DD
	address changed s vere notified?	since the last	1 Yes 2 No X	Has there been an acquisition of control	9
	omplete lines 011 1			to which subsection 249(4) applies since	
<u> </u>	00 Simcoe Stre	,		the tax year start on line 060?	063 1 Yes 2 No X
012				If <b>yes</b> , provide the date	065
Cit	у		Province, territory, or state	control was acquired	065
015	Dshawa	016	ON		
	ountry (other than C	anada)	Postal code/Zip code	Is the date on line 061 a deemed	
017		018	L1H 7M7	tax year-end in according to subsection 249(3.1)?	066 1 Yes 2 No X
		nt from head office add	ress)		
	address changed s		1 Yes 2 No X	Is the corporation a professional corporation that is a member of	
	vere notified? omplete lines 021 f		1 Yes 2 No X	a partnership?	067 1 Yes 2 No X
021 c/c	•	10 020.)		Is this the first year of filing after:	
021 0/0				Incorporation?	070 1 Yes 2 No X
022				Amalgamation?	
Cit	v		Province, territory, or state	If yes, complete lines 030 to 038 and att	
025	,	026		1/	
	untry (other than C		Postal code/Zip code	Has there been a wind-up of a subsidiary under section 88 during the subsidiary under section 88 during the se	ne
027	· · · · · · · · ·	028		current tax year?	
	of books and recor			If yes, complete and attach Schedule 24	<u></u>
Has the l	ocation of books ar	nd records	$\mathbb{A}$	Is this the final tax year	
•	since the last time			before amalgamation?	076 1 Yes 2 No X
notified?	omplete lines 031 f		1 Yes 2 No X	Is this the final return up to	
	00 Simcoe Stre	•		dissolution?	078 1 Yes 2 No X
032				If an election was made under	
Cit	V		Province, territory, or state	section 261, state the functional	079
	) Shawa	036	<u> </u>	currency used	
	ountry (other than C	0.004	Postal code/Zip code	Is the corporation a resident of Cana	
037		038			the country of residence on line omplete and attach Schedule 97.
	<b>,</b> ,,			081	
040 Ty		h at the end of the tax	A.		
1 X	Canadian-control private corporatio		Corporation controlled by a public corporation	Is the non-resident corporation claiming an exemption under	
	☐ Other private		Other corporation	an income tax treaty?	082 1 Yes 2 No X
2	corporation	5	(specify, below)	If yes, complete and attach Schedule 91	
3	∫ Public	, or the second	-	If the corporation is exempt from tax	under section 149,
	$\Box$ corporation $\checkmark$			tick one of the following boxes: 085 1 Exempt under paragra	ph 149(1)(e) or (l)
	e of corporation cha			2 Exempt under paragra	
	ear, provide the effe	ective <sup>V</sup>		3 Exempt under paragra	
date of th	e change	<u>043</u>	YYYY MM DD		ragraphs of section 149
		<i>y</i>			143
			Do not use th	nis area	
095				096	

- Attachments		
Financial statement information: Use GIFI schedules 100, 125, and 141. Schedules – Answer the following questions. For each yes response, attach the schedule to the T2 return, unless otherwise instructed.	Yes	Schedule
le the corneration related to any other cornerations?	150 X	9
Is the corporation related to any other corporations?	160 X	
Is the corporation an associated CCPC?		23
Is the corporation an associated CCPC that is claiming the expenditure limit?	161	49
Does the corporation have any non-resident shareholders who own voting shares?	151	19
other than transactions in the ordinary course of business? Exclude non-arm's length transactions with non-residents	162 X	11
were all or substantially all of the assets of the transferor disposed of to the transferee?	164 X	44 14
	165 X	14
	166	
Is the corporation claiming a loss or deduction from a tax shelter?		T5004
Is the corporation a member of a partnership for which a partnership account number has been assigned?	167	T5013
Did the corporation, a foreign affiliate controlled by the corporation, or any other corporation or trust that did not deal at afm's length with the corporation have a beneficial interest in a non-resident discretionary trust (without reference to section 94)?	168	22
Did the corporation have any foreign affiliates during the year?	169	25
of the federal Income Tax Regulations?	170	29
Has the corporation had any non-arm's length transactions with a non-resident?	171	T106
common and/or preferred shares?	173 X 172	50
Has the corporation made payments to, or received amounts from, a retirement compensation plan arrangement during the year?	180	
Does the corporation earn income from one or more Internet webpages or websites?		88
Is the net income/loss shown on the financial statements different from the net income/loss for income tax purposes?	201 X	1
gifts of cultural or ecological property; or gifts of medicine?	202 X	2
Has the corporation received any dividends or paid any taxable dividends for purposes of the dividend refund?	203 X	3
Is the corporation claiming any type of losses?	204	4
Is the corporation claiming a provincial or territorial tax credit or does it have a permanent establishment in more than one jurisdiction?	205 X	5
Has the corporation realized any capital gains or incurred any capital losses during the tax year?	206	6
i) Is the corporation claiming the small business deduction and reporting income from: a) property (other than dividends deductible on line 320 of the T2 return), b) a partnership, c) a foreign business, or d) a personal services business; or	207	_
ii) does the corporation have aggregate investment income at line 440?	207 208 X	7
Does the corporation have any property that is eligible for capital cost allowance?	208 1	8
Does the corporation have any property that is eligible capital property?	210	10
Does the corporation have any resource-related deductions?		12
Is the corporation claiming deductible reserves (other than transitional reserves under section 34.2)?	213	13
Is the corporation claiming a patronage dividend deduction? $\mathcal{A}$ . $\mathcal{C}$	216	16
Is the corporation a credit union claiming a deduction for allocations in proportion to borrowing or an additional deduction?	217	17
Is the corporation an investment corporation or a mutual fund corporation?	218	18
Is the corporation carrying on business in Canada as a non-resident corporation?	220	20
Is the corporation claiming any federal or provincial foreign ax credits, or any federal or provincial logging tax credits?	221	21
Does the corporation have any Canadian manufacturing and processing profits?	227	27
Is the corporation claiming an investment tax credit?	231 X	31
Is the corporation claiming any scientific research and experimental development (SR&ED) expenditures?	232 X	T661
Is the total taxable capital employed in Canada of the corporation and its related corporations over \$10,000,000?	233 X	
Is the total taxable capital employed in Canada of the corporation and its associated corporations over \$10,000,000?	234 X	<u> </u>
Is the corporation claiming a surtax credit?	237	37
Is the corporation subject to gross Part Vitax on capital of financial institutions?	238	38
Is the corporation claiming a Part Ltax credit?	242	42
Is the corporation claiming a Part to x credit?	243	42 43
	244	
Is the corporation agreeing to a transfer of the liability for Part VI.1 tax?	244	45
Is the corporation subject to Part II - Tobacco Manufacturers' surtax?		46
more members subject to gross Part VI tax?	250	39
Is the corporation claiming a Canadian film or video production tax credit refund?	253	T1131
Is the corporation claiming a film or video production services tax credit refund?	254	T1177
Is the corporation subject to Part XIII.1 tax? (Show your calculations on a sheet that you identify as Schedule 92.)	255	92

### $_{ m \square}$ Attachments – continued from page 2 –

Attachments – continued nom page z	Yes	Schedule
Did the corporation have any foreign affiliates that are not controlled foreign affiliates? 256		T1134
Did the corporation have any controlled foreign affiliates? 258		T1134
Did the corporation own specified foreign property in the year with a cost amount over \$100,000?		T1135
Did the corporation transfer or loan property to a non-resident trust?		T1141
Did the corporation receive a distribution from or was it indebted to a non-resident trust in the year?		T1142
Has the corporation entered into an agreement to allocate assistance for SR&ED carried out in Canada?		T1145
Has the corporation entered into an agreement to transfer qualified expenditures incurred in respect of SR&ED contracts? 263		T1146
Has the corporation entered into an agreement with other associated corporations for salary or wages of specified employees for SR&ED? 264		T1174
Did the corporation pay taxable dividends (other than capital gains dividends) in the tax year?	X	55
Has the corporation made an election under subsection 89(11) not to be a CCPC?		T2002
Has the corporation revoked any previous election made under subsection 89(11)?		T2002
Did the corporation (CCPC or deposit insurance corporation (DIC)) pay eligible dividends, or did its general rate income pool (GRIP) change in the tax year?	X	53
Did the corporation (other than a CCPC or DIC) pay eligible dividends, or did its low rate income pool (LRIP) change in the tax year?		54

– Additi	onal information	
Did the co	progration use the International Financial Reporting Standards (IFRS) when it prepared its financial statements?	270 1 Yes 2 No X
Is the corp	poration inactive?	280 1 Yes 2 No X
	pe corporation's main generating business activity? 418990 All other merchant wholesalers	
sold, cons approximation	are principal product(s) mined, manufactured, structed, or services provided, giving the ate percentage of the total revenue that each r service represents.       284       Utility Distribution         286       286         288       286	<b>285</b> 100.000 % <b>287</b> % <b>289</b> %
Did the co		291 1 Yes 2 No X
Did the co	prporation emigrate from Canada during the tax year?	292 1 Yes 2 No X
If the corp the date th	poration was eligible to remit instalments on a quarterly basis for part of the tax year, provide the corporation ceased to be eligible	293     1 Yes     2 No       294
If the corp	poration's major business activity is construction, did you have any subcontractors during the tax year?	
─ Taxab	le income	
Net incom	ne or (loss) for income tax purposes from Schedule 1, financial statements, or GIFI.	933,280 A
Deduct:	Charitable donations from Schedule 2	
	Cultural gifts from Schedule 2	
	Ecological gifts from Schedule 2	
	Gifts of medicine from Schedule 2    315      Taxable dividends deductible under section 112 or 113, or subsection 138(6)    320	
	Part VI.1 tax deduction*	
	Non-capital losses of previous tax years from Schedule 4	
	Net capital losses of previous tax years from Schedule 4	
	Restricted farm losses of previous tax years from Schedule 4	
	Farm losses of previous tax years from Schedule 4	
	Limited partnership losses of previous fax years from Schedule 4	

	a central credit union	340			
		Subtotal	9,798 🕨	9,798	В
	N//	Subtotal (amount A minus amount B	B) (if negative, ente <u>r "0")</u>	923,482	С
Add:	Section 110.5 additions or subparagraph 115(1)(a)(vii) additions				D
Taxable	income (amount C plus amount D)			923,482	
Income e	xempt under paragraph 149(1)(t)				
Taxable	income for a corporation with exempt income under paragraph 14	9(1)(t) (line 360 <b>minus</b> line 370)		923,482	Ζ
* This arr	ount is equal to 3.5 times the Part VI.1 tax payable at line 724 on p	bage 8.			

┌ Small business deduction
Canadian-controlled private corporations (CCPCs) throughout the tax year
Income from active business carried on in Canada from Schedule 7
Taxable income from line 360 on page 3, minus 100/28       3.57143       of the amount on line 632* on page 7, minus         1/(0.38 - X**)       4       times the amount on line 636*** on page 7, and minus any amount that, because of
federal law, is exempt from Part I tax
Business limit (see notes 1 and 2 below)
Notes:
1. For CCPCs that are not associated, enter \$ 500,000 on line 410. However, if the corporation's tax year is less than 51 weeks, prorate this amount by the number of days in the tax year divided by 365, and enter the result on line 410.
2. For associated CCPCs, use Schedule 23 to calculate the amount to be entered on line 410.
Business limit reduction:
Amount C $500,000 \times 415 \times 203,346 D$ D       = $9,037,600 E$
11,250 Reduced business limit (amount C minus amount E) (if negative enter "0")
Reduced business limit (amount C minus amount E) (if negative, enter "0")
Small business deduction
Amount A, B, C, or F, whichever is the least X 17 % =
Enter amount G on line 1 on page 7.
* Calculate the amount of foreign non-business income tax credit deductible on line 632 without reference to the refundable tax on the CCPC's investment income (line 604) and without reference to the corporate tax reductions under section 123.4.
** General rate reduction percentage for the tax year. It has to be pro-rated based on the number of days in the tax year that are in each calendar year. See page 5.
*** Calculate the amount of foreign business income tax credit deductible on line 636 without reference to the corporation tax reductions under section 123.4.
**** Large corporations
<ul> <li>If the corporation is not associated with any corporations in both the current and previous tax years, the amount to be entered on line 415 is: (total taxable capital employed in Canada for the prior year minus \$10,000,000) x 0.225%.</li> </ul>
<ul> <li>If the corporation is not associated with any corporations in the current tax year, but was associated in the previous tax year, the amount to be entered on line 415 is: (total taxable capital employed in Canada for the current year minus \$10,000,000) x 0.225%.</li> </ul>
• For corporations associated in the current tax year, see Schedule 23 for the special rules that apply.

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O V
$\odot$

$_{ m \square}$ General tax reduction	n for Canadian-co	ontrolled private corporations			
Canadian-controlled private	corporations through	out the tax year			
Taxable income from page 3 (li	ne 360 or amount Z, whi	chever applies)		· · · · · · · · · · · · · · ·	923,482 A
Lesser of amounts V and Y (lin	,				
Amount QQ from Part 13 of Sc					
Personal service business inco					
		mount F from Schedule 17)			
		chever is the least			
Aggregate investment income	10			G	
					H
Amount A minus amount H (if	negative, enter "0")			Y	923,482 I
Amount I 9	023,482 ×Dec	Number of days in the tax year after cember 31, 2010, and before January 1, 2012	x	11.5 % =	J
		Number of days in the tax year	365	ANY'	
Amount I 9	923,482 ×	Number of days in the tax year after December 31, 2011	<u>365</u> ×	(13% =	<u>120,053</u> к
		Number of days in the tax year	365	, Y	
General tax reduction for Cal Enter amount L on line 638 on		rate corporations – Amount J plus amount K		§7	120,053 L
* Except for a corporation th	at is, throughout the yea	ar, a cooperative corporation (within the meaning as	ssigned by subse	ection 136(2)) or a credit u	inion.
			ĸ.		
	you are a Canadian-co	ontrolled private corporation, an investment con taxable income that is not subject to the corp			poration,
Taxable income from page 3 (li			<b>_</b>		М
Lesser of amounts V and Y (lin					١٧١
Amount QQ from Part 13 of Sc	,				
Personal service business inco				Ŭ P	
Amount used to calculate the c				 Q	
				► E	R
Amount M minus amount R (if					S
	negative, enter 0 )				0
Amount S	x Dec	Number of days in the tax year after cember 31, 2010, and before January 1, 2012	x	11.5 % =	т
		Number of days in the tax year	365		
Amount C	x	Number of days in the tax year after	365 ×	13 % =	
Amount S	^ <b>^</b>	December 31, 2011 Number of days in the tax year		13 /0 -	U
			305		
<b>General tax reduction</b> – Amo Enter amount V on line 639 on	-			····· <u> </u>	V
		J			
	K.	~			
	A S				
	AL A				
A	Y				
	) <sup>~</sup>				

$_{ m \sub}$ Refundable portion of Part I tax —				
Canadian-controlled private corporations throu	ighout the tax year			
Aggregate investment income	0	_ x 26 2 / 3 % =		A
Foreign non-business income tax credit from line 63	32 on page 7		В	
Deduct:				
Foreign investment income	5	_ x 9 1 / 3 % =	C	
from Schedule 7		(if negative, enter "0")		D
Amount A <b>minus</b> amount D (if negative, enter "0")				E
Taxable income from line 360 on page 3			923,48 <u>2</u> F	1
Deduct:				
Amount from line 400, 405, 410, or 425 on page 4		0	<u> </u>	
	••••••	G		
Foreign non-business income tax credit				
from line 632 on page 7	x 100 / 35 =	Н		
Foreign business income				
tax credit from line 636 on	$1(0.38 - X^*)$			
page7	4	I	· · ·	
	Subtotal	TX	J 923,482 к	
		~	× 26 2 / 3 % =	246,262 L
			20 2 7 3 76 -	
Part I tax payable minus investment tax credit refund	d (line 700 <b>minus</b> line 780	from page 8)	/	86,624 M
<b>Refundable portion of Part I tax</b> – Amount E, L, o	r M whichever is the least		450	Ν
* General rate reduction percentage for the tax ye				
See page 5.				adi your.
$_{ar{}}$ Refundable dividend tax on hand —				
Refundable dividend tax on hand at the end of the pr	revious tax year			
<b>Deduct:</b> Dividend refund for the previous tax year	· · · · · · · · · · · · · · · ·			
Add the total of:		$\mathbb{Y}$	▶ _	0
Refundable portion of Part I tax from line 450 abov	<u>م</u>	2	P	
	• • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••	\ Q	
Net refundable dividend tax on hand transferred fro	. 13	tion on	«	
amalgamation, or from a wound-up subsidiary corp	oration			
	6 (7)		►	R
Refundable dividend tax on hand at the end of	the tax vear - Amount O	<b>plus</b> amount R	485	
□ Dividend refund				
Private and subject corporations at the time tax	able dividends were pai	d in the tax year		
Taxable dividends paid in the tax year from line 46	0 on page 2 of Schedule 3	· · · · · · · · · · · · · · · · · · ·	<u>1,700,000</u> × 1 / 3 =	566,667 s
Refundable dividend tax on hand at the end of the	tax year from line 485 abov	/e		т
Dividend refund – Amount S or T, which even is les	s (enter this amount on lin	e 784 on page 8)		

Part I tax		
Base amount Part I tax – Taxable income from page 3 (line 360 or amount Z, whichever applies) multiplie         Recapture of investment tax credit from Schedule 31	C00	350,923
Calculation for the refundable tax on the Canadian-controlled private corporation's (CCPC) investm (if it was a CCPC throughout the tax year)	nent income	
Aggregate investment income from line 440 on page 6	i	
Deduct: Amount from line 400, 405, 410, or 425 on page 4, whichever is the least		
Netamount	•923,482 ii	
Refundable tax on CCPC's investment income – 6 2 / 3 % of whichever is less: amount i or	ii	(
	Subtotal (add amounts A to C)	350,923 เ
Deduct:		
Small business deduction from line 430 on page 4	<u>. 1</u>	
Federal tax abatement	-11	
Manufacturing and processing profits deduction from Schedule 27		
Investment corporation deduction		
Taxed capital gains 624	<u> </u>	
Additional deduction – credit unions from Schedule 17		
Federal foreign non-business income tax credit from Schedule 21		
Federal foreign business income tax credit from Schedule 21		
General tax reduction for CCPCs from amount L on page 5	· · · · · · · · · · · · · · · · · · ·	
General tax reduction from amount V on page 5		
Federal logging tax credit from Schedule 21    640		
Federal qualifying environmental trust tax credit 648		
Investment tax credit from Schedule 31 652		
Subtota	264,299 ►	264,299
Part Ltax payable Amount D minus amount E		86,624
Part I tax payable – Amount D minus amount E         Enter amount F on line 700 on page 8.	· · · · · · · · · · · · · · · · · · ·	00,021
A		
Real Provide American Americ		

Summary of tax and credits —			
Federal tax			
Part I tax payable from page 7			86,624
Part II surtax payable from Schedule 46			
Part III.1 tax payable from Schedule 55			
Part IV tax payable from Schedule 3			
Part IV.1 tax payable from Schedule 43			
Part VI tax payable from Schedule 38			
Part VI.1 tax payable from Schedule 43			
Part XIII.1 tax payable from Schedule 92			
Part XIV tax payable from Schedule 20			Ŋ
Add provincial or territorial tax:		Total federal tax	86,624
	<b>750</b> ON		, ,
(if more than one jurisdiction, enter "multip			
Net provincial or territorial tax payable (exc			
Provincial tax on large corporations (Nova	. ,		
(The Nova Scotia tax on large corporations			
· · · ·	Total provincial	or territorial tax62,755	62,755
Deduct other credits:		Total tax payable 770	149,379 A
Investment tax credit refund from Schedul	e 31		
Dividend refund from page 6		784	
Federal capital gains refund from Schedul			
Federal qualifying environmental trust tax of			
Canadian film or video production tax cred			
Film or video production services tax credi			
Tax withheld at source	· · · · · · · · · · · · · · · · · · ·	800	
Total payments on which tax has been w	vithheld		
Provincial and territorial capital gains refur			
Provincial and territorial refundable tax cre	dits from Schedule 5	812	
Tax instalments paid	·····	<u></u> 840240,000	
	Tot	al credits 890 240,000	240,000 B
Refund code 894 2 Overp	ayment 90,621	Balance (amount A minus amount B)	-90,621
·		If the result is negative, you have an <b>ove</b>	novmont
<b>Direct deposit request</b> To have the corporation's refund deposited	I directly into the corporation's hard	If the result is positive, you have a balance	
account at a financial institution in Canada		Enter the amount on whichever line applie	
already gave us, complete the information l		Concrelly, we do not obergo or refund a c	lifforonoo
Start Change information	910	Generally, we do not charge or refund a c of \$2 or less.	linerence
	Branch number	Balance unpaid	↓
914	918		
Institution number	Accountnumber	Enclosed payment 898	
If the corporation is a Canadian-controlled does it qualify for the one-month extensior	private corporation throughout the tax year,		2 No X
If this return was prepared by a tax prepare	er for a fee, provide their EFILE number		15
PRER	ARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW	V FROM INFORMATION PROVIDED BY THE TAXPAYER.	
- Certification			
I. 950 MARTIN	951 PHIL	954 VP FINANCE	
Last name (print)	First name (pr		ffice, or rank
		including accompanying schedules and statement	
	è best of my knowledge, correct and complete. I a ax year except as specifically disclosed in a state	also certify that the method of calculating income	for this tax
·	ax year except as specifically disclosed in a state		
955	Cignoture of the outborized eigning officer of		723-4626
Date (yyyy/mm/dd)	Signature of the authorized signing officer of		elephone number 2 No X
	orized signing officer? If <b>no</b> , complete the informa		
958 DAVID SAVAGE	Name (print)		743-5219
	Name (print)	IE	elephonenumber
- Language of correspondence			
	– Langue de correspondance ——		
	<ul> <li>Langue de correspondance</li> <li>by entering 1 for English or 2 for French.</li> <li>en inscrivant 1 pour anglais ou 2 pour français.</li> </ul>	990	1

# Schedule of Instalment Remittances

Name of corporation contact	
Telephone number	

David Savage (905) 743-5219

Effective interest date	Description (instalment remittance, split payment, assessed credit)	Amount of credit
	Tax installments made during the year (PILS)	240,000
		K.
		S <sup>V</sup>
	Total amount of instalments claimed (carry the result to line 840 of the T2 Return)	240,000 <b>A</b>
	Total instalments credited to the taxation year per T9	<b>2</b> 40,000 <b>B</b>
<b>-</b> <i>i</i>		

Account number	Taxation year end	Amount	Effective interest date	Description
From:		Y .		
To:				
From:				
To:				
From:				
То:		$\mathcal{L}$		
From:				
To:				
From:				
To:				

*	Canada Revenue Agency	Agence du revenu du Canada

## **SCHEDULE 100**

Form identifier 100	GENERAL INDEX OF FINANCIAL INFORMATION – GIFI				
Name of corporation		Business Number	Tax year end Year Month Day		
Oshawa PUC Networks Inc.		89172 5210 RC0001	2013-12-31		

### **Balance sheet information**

Account	Description	GIFI	Current year	Prior year
Assets -				
	Total current assets	. 1599 +	27,665,000	27,690,000
	Total tangible capital assets	2008 +	77,504,000	70,709,000
	Total accumulated amortization of tangible capital assets	2009 –		
	_ Total intangible capital assets	2178 +		
	Total accumulated amortization of intangible capital assets	2179 –		
	_ Total long-term assets	2589 +	8,554,000	9,681,000
	* Assets held in trust	2590 🕈		
	_ Total assets (mandatory field)	2599 =		108,080,000
Liabilities	S	K.		
	Total current liabilities	3139 +	26,218,000	19,128,000
	Total long-term liabilities	3450 +	48,607,000	51,453,000
	*Subordinated debt	3460 +		
	*Amounts held in trust	3470 +		
	_ Total liabilities (mandatory field)	. 3499 =	74,825,000	70,581,000
	_ Total shareholder equity (mandatory field)	3620 +	38,898,000	37,499,000
	_ Total liabilities and shareholder equity	3640 =	113,723,000	108,080,000
Retained	earnings			
	Retained earnings/deficit – end (mandatory field)	3849 =	15,882,000	14,679,000
Generic item	PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFOR	VATION PROVIDED	BY THE TAXPAYER.	

## Current Assets

## SCHEDULE 100

Cash and c	donasito			
	* Cash and deposits	1000	3,427,000	6,204,000
	Cash and deposits	+	3,427,000	6,204,000
Accounts r	receivable			
	* Accounts receivable	1060	9,972,000	7,615,000
	Accounts receivable	+	9,972,000	7,615,000
nventories				
	* Inventories	1120	51,000	239,000
	Inventories	+	51,000	239,000
Due from/i	nvestment in related parties	Ĉ	Sr.	
	* Due from/investment in related parties	1400		408,000
	Due from/investment in related parties	¥	<u> </u>	408,000
Other curre	ent assets	$\searrow$		
	* Other current assets	1480	13,667,000	12,943,000
	Taxes recoverable/refundable	1483	451,000	145,000
	Prepaid expenses	1484	97,000	136,000
	Other current assets	+	14,215,000	13,224,000
	Total current assets	1599 =	27,665,000	27,690,000
Generic item				
	PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFORMATI	ON PROVIDED B	Y THE TAXPAYER.	

# Tangible Capital Assets and Accumulated Amortization

Form identifier 2008/2009	

Account	Description	GIFI	Tangible capital assets	Accumulated amortization	Prior year
Other tang	ible capital assets * Other tangible capital assets Total	1900 +	77,504,000 77,504,000		70,709,000
	Total tangible capital assets	2008 =	77,504,000		70,709,000
ZZZ	Total accumulated amortization of tangible capital assets	2009	=		
Generic item	• PREPARED SOLELY FOR INCOME TAX PURPOSES WITH				

# Long-term Assets

Account	Description	GIFI	Current year	Prior year
Other long	-term assets	2420	175,000	240.000
	* Other long-term assets	2420 2421	<u>175,000</u>	248,000 8,959,000
	Future (deferred) income taxes         Other deferred items/charges	2424	444,000	474,000
	Other long-term assets	+	8,554,000	9,681,000
	C C C C C C C C C C C C C C C C C C C		AR Y	
	Total long-term assets	2589 =	8,554,000	9,681,00
Generic item			AAV	
	PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFOR			
		K	<i>y</i>	

# **Current Liabilities**

Form identifier 3139					
	Account	Description	GIFI	Current year	Prior year
L					

* Amounts payable	crued liabilities		
	and accrued liabilities	18,254,000	13,327,000
Amounts payable	and accrued liabilities + +	18,254,000	13,327,000
Due to related parties			
* Due to related part	ies	2,554,000	
Due to related pa	rties +	2,554,000	
* Current portion of I	ong-term liability	2,899,000	2,989,000
Other current liabilities	/i		
* Other current liabil	ities	2,511,000	2,812,000
Other current lial	pilities	2,511,000	2,812,000
Total current liab	ilities	26,218,000	19,128,000
* Generic item			

### SCHEDULE 100

# Long-term Liabilities

Form identifier					
Account	Description		GIFI	Current year	Prior year
ong-term					
	_* Long-term debt		3140	7,000,000	7,000,000
	Long-term debt		. +	7,000,000	7,000,000
	_* Deferred income		3220 +	1,664,000	1,689,000
ue to sha	areholder(s)/director(s)				
	* Due to shareholder(s)/directo		3260	23,064,000	23,064,000
	Due to shareholder(s)/direc		. +	23,064,000	23,064,000
ther long	-term liabilities			AV	
	* Other long-term liabilities		. 3320		19,700,000
	Other long-term liabilities		• (*	16,879,000	19,700,000
	Total long-term liabilities		. 3450 =	48,607,000	51,453,000
Generic item			K, Ĭ		
	PREPAR	ED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFORMAT	HON PROVIDED BY	THE TAXPAYER.	
		A			
			Y		
		↓ AS			
		$\mathbb{A}$			
	<u>_</u>				
	Â				
	ØŊ	Ť			
	o, W)'				

# Shareholder Equity

Description	GIFI	Current year	Prior year
_* Common shares	3500 +	23,064,000	23,064,000
_* Accumulated other comprehensive income	3580 +	-48,000	-244,000
_*Retained earnings/deficit	. 3600 +	15,882,000	14,679,000
_ Total shareholder equity	3620 =	38,898,000	37,499,000
	IION PROVIDED BY	THE TAXPAYER	
	* Accumulated other comprehensive income	* Accumulated other comprehensive income 3580 + * Retained earnings/deficit 3600 + Total shareholder equity 3620 = PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFORMATION PROVIDED BY	* Accumulated other comprehensive income 3580 + 48,000 * Retained earnings/deficit 3600 + 15,882,000 Total shareholder equity 3620 = 38,898,000 PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFORMATION PROVIDED BY THE TAXPARENT OF TAXPAREN

### **SCHEDULE 100**

# Retained Earnings/Deficit

Form identifier 3849

Account	Description	GIFI	Current year	Prior year
	_* Retained earnings/deficit – start	3660 +	14,679,000	12,863,000
	* Netincome/loss	3680 +	2,903,000	3,516,000
Dividends	declared		0 KS	
	_* Dividends declared	3700	1,700,000	1,700,000
	Dividends declared	. –	1,700,000	1,700,000
* Generic item	_ Retained earnings/deficit – end	3849 =	45,882,000	14,679,000

Form identifie	GENERAL INDEX OF FINANCIAL INFORMAT	FION – GII	FI		
Name of corpo	ration	Busir	ness Number	Tax year end Year Month Day	
Oshawa PU	C Networks Inc.	89172	5210 RC0001	2013-12-31	
Income sta	atement information	·			
Description	GIFI		K		
				9	
Operating nam				1	
Description of					
Sequencenun	nber 0003 <u>01</u>				
Account	Description	GIFI	Current year	Prior year	
Incomes	tatement information	<u> </u>	SY.		
income 3		8089 +	120,085,000	114,136,000	
	··· ·· · · · · · · · · · · · · · · · ·	8518 =	102,012,000	96,182,000	
		8519 =	18,073,000	17,954,000	
	Cost of sales	8518 +	102,012,000	96,182,000	
	Total operating expenses	9367 +	16,690,000	16,221,000	
	Total expenses (mandatory field)	9368 =	118,702,000	112,403,000	
		8299 +	121,767,000	115,966,000	
	,,,, ,,, ,,, ,, ,, ,, ,, ,, ,, , .	9368 —	118,702,000	112,403,000	
	Net non-farming income	9369 =	3,065,000	3,563,000	
Farming	income statement information				
		9659 +			
		9898 -			
		9899 =			
	Net income/loss before taxes and extraordinary items	9970 =	3,065,000	3,563,000	
	Total other comprehensive income	9998 =			
Extraordi	nary items and income (linked to Schedule 140)				
Extraora		9975 –			
		9976 –			
	Unrealized gains/losses	9980 +			
	Unusual items	9985 –			
		9990 –	162,000	47,000	
		9995 –			
		9998 + _	0.000.007		
	Net income/loss after taxes and extraordinary items (mandatory field)	9999 =	2,903,000	3,516,000	

PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFORMATION PROVIDED BY THE TAXPAYER.

# Revenue

# **SCHEDULE 125**

Account	Description	GIFI	Current year	Prior year
	* Trade sales of goods and services	. 8000 +	120,085,000	114,136,000
	Total sales of goods and services	. 8089 =	120,085,000	114,136,00
vestmen	trevenue		O KO	
	Interest from other Canadian sources	8094	48,000	102,00
	Investment revenue	. +	48,000	102,00
ealized g	ains/losses on disposal of assets			
	* Realized gains/losses on disposal of assets	. 8210	-208,000 -208,000 -208,000	-75,00 -75,00
	Realized gains/losses on disposal of assets	· · ·		-75,00
ther reve		0220	1 042 000	1 002 00
	* Other revenue	. 8230	1,842,000	<u>1,803,00</u> 1,803,00
		<u>`</u> `		
	Total revenue	8299 =	121,767,000	115,966,00

# Cost of Sales

Form identifier 8518

# **SCHEDULE 125**

Account	Description	GIFI	Current year	Prior year
	* Purchases/cost of materials		102,012,000	96,182,000
* Conorio itam	Cost of sales		102,012,000	96,182,000
* Generic item	Cost of sales			96,182,000

# **Operating Expenses**

Form identifier 9367

# SCHEDULE 125

Account	Description	GIFI	Current year	Prior year
Advortisin	g and promotion			
Auventisin	Meals and entertainment	8523	20,169	12,86
			+ 20,169	12,86
	Advertising and promotion	••	. 20,10,	12,00
	<u>.</u>	0.070		
	* Amortization of tangible assets	. 8670	+	3,036,00
Interest ar	nd bank charges		N V	
	_* Interest and bank charges	. 8710	1,802,000	1,920,000
	Interest and bank charges		+1,802,000	1,920,00
Other exp	enses			
-	_* Other expenses	9270	11,048,718	11,222,137
	Research and development	9282	136,113	
	General and administrative expenses	9284	30,000	30,00
	Other expenses		+ 11,214,831	11,252,13
	···· •	KS.		· · · · ·
	_ Total operating expenses	9367	= 16,690,000	16,221,000
* Generic item		$\sim$		

PREPARED SOLELY FOR INCOME TAX PURPOSES WITHOUT AUDIT OR REVIEW FROM INFORMATION PROVIDED BY THE TAXPAYER.



Canada Revenue Agence du revenu Agency du Canada

#### Schedule 141

# **Notes checklist**

Corporation's name	Business number	Tax year-end
Oshawa PUC Networks Inc.	89172 5210 RC0001	Year Month Day 2013-12-31
	07172 3210 KC0001	2013-12-31
• Parts 1, 2, and 3 of this schedule must be completed from the perspective of the person (referred to in thes reported on the financial statements. If the person preparing the tax return is not the accountant referred to and 4, as applicable.		
• For more information, see Guide RC4088, General Index of Financial Information (GIFI) and Guide T4012,	T2 Corporation – Income Ta	x Guide.
Complete this schedule and include it with your T2 return along with the other GIFI schedules.	- A	S
- Part 1 – Information on the accountant who prepared or reported on the finar	icial statements	7
Does the accountant have a professional designation?		5 1 Yes X 2 No
Is the accountant connected* with the corporation?		7 1 Yes 2 No X
* A person connected with a corporation can be: (i) a shareholder of the corporation who owns more than 10 officer, or an employee of the corporation; or (iii) a person not dealing at arm's length with the corporation.	% of the common shares; (ii)	a director, an
Note	C V	
If the accountant does not have a professional designation <b>or</b> is connected to the corporation, you do not schedule. However, you <b>do have</b> to complete Part 4, as applicable.	have to complete Parts 2 and	I 3 of this
schedule. However, you do nave to complete Part 4, as applicable.		
- Part 2 – Type of involvement with the financial statements	Ŋ	
	 	0
Choose the option that represents the highest level of involvement of the accountant:		_
Completed an auditor's report		1 <b>X</b>
Completed a review engagement report		2
Conducted a compilation engagement		3
- Part 3 – Reservations		
- Fait 3 - Reservations		
If you selected option 1 or 2 under Type of involvement with the financial statements above, answer the formation of the selected option 1 or 2 under Type of involvement with the financial statements above, answer the formation of the selected option 1 or 2 under Type of involvement with the financial statements above, answer the formation of the selected option 1 or 2 under Type of involvement with the financial statements above, answer the formation option 1 or 2 under Type of the selected option 1 or 2 under Type of the selected option 1 or 2 under Type of the selected option 2 under Type	ollowing question:	
Has the accountant expressed a reservation?		9 1 Yes 2 No X
Part 4 – Other information		
If you have a professional designation and are not the accountant associated with	-	
the financial statements in Part 1 above, choose one of the following options:		0
Prepared the tax return (financial statements prepared by client)		1 X
Prepared the tax return and the financial information contained therein (financial statements have not been pre	pared)	
Were notes to the financial statements prepared?		1 1 Yes X 2 No
If yes, complete lines 104 to 107 below:		
Are subsequent events mentioned in the notes?	<mark>10</mark>	4 1 Yes 2 No X
Is re-evaluation of asset information mentioned in the notes?		5 1 Yes 2 No X
Is contingent liability information mentioned in the notes?		6 1 Yes X 2 No
Is information regarding commitments mentioned in the notes?		
Does the corporation have investments in joint venture(s) or partnership(s)?		8 1 Yes 2 No X



Part 4 – Other information (continued)				
Impairment and fair value changes				
In any of the following assets, was an amount recognized in net income or result of an impairment loss in the tax year, a reversal of an impairment los change in fair value during the tax year?			<b>200</b> 1 Yes	2 No X
If <b>yes</b> , enter the amount recognized:	In net income Increase (decrease)	In OCI Increase (decreas	e)	
Property, plant, and equipment		211		
Intangible assets		216	- K.	
Investment property				
Biological assets				
Financial instruments		231	L.Y	
Other		236	Ş	
Financial instruments				
Did the corporation derecognize any financial instrument(s) during the tax	x year (other than trade rec	eivables)?	<b>250</b> 1 Yes	2 No 🗴
Did the corporation apply hedge accounting during the tax year?			<b>255</b> 1 Yes X	2 No
Did the corporation discontinue hedge accounting during the tax year?			<b>260</b> 1 Yes	2 No 🗙
Adjustments to opening equity				
Was an amount included in the opening balance of retained earnings or recognize a change in accounting policy, or to adopt a new accounting	or equity, in order to correct standard in the current tax	anerror, to year?	265 1 Yes	2 No X
If <b>yes</b> , you have to maintain a separate reconciliation.				

# **T2 BAR CODE RETURN**

# Name: Oshawa PUC Networks Inc.

BN: 89172 5210 RC 0001			
Tax Year Start:	2013-01-01		
Tax Year End:	2013-12-31		

Financial Statements and Notes to be attached seperately.

Oshawa PUC Networks Inc. - PIL Return.213

**SCHEDULE 1** 

*	Canada Revenue
	Agency

nue Agence du revenu du Canada

# Net Income (Loss) for Income Tax Purposes

Corporation's name	Business Number	Tax year end
		Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

• The purpose of this schedule is to provide a reconciliation between the corporation's net income (loss) as reported on the financial statements and its net income (loss) for tax purposes. For more information, see the T2 Corporation Income Tax Guide.

• All legislative references are to the Income Tax Act.

Amount calculated on line 9999 from Schedule 125			X	2,903,000 A
				) )
Add: Provision for income taxes – current		101	162,000	9
Amortization of tangible assets		101	3,653,000	
-		104	30,000	
······································		. 111	208,000	
		112	9,798	
Scientific research expenditures deducted per financial statements		. 118	136,113	
Non-deductible club dues and fees		120	3,259	
		121	10,085	
Reserves from financial statements – balance at the end of the year		. 126	12,047,879	
	Subtotal of additions	- MA	16,260,134	16,260,134
	Subiotal of additions	$\bigcirc$	10,200,101	10,200,101
Other additions:		231	12,854	
Recapture of SR&ED expenditures – Form T661	· · · · · · · · · · · · · · · · · · ·	231	12,034	
Miscellaneous other additions:		>		
603				
Inducement - ITA 12(1)(x)	45,696		17 / 0 /	
Total	45,696	293	45,696	
604	<u> </u>			
Total	Y	294	<b>&gt;</b>	
	Subtotal of other additions		58,550	58,550
A	Total additions	500	16,318,684 -	<u>16,318,684</u> B
Amount A plus amount B				19,221,684
Deduct:	J			
Capital cost allowance from Schedule 8		403	6,437,003	
Reserves from financial statements - balance at the beginning of the year	ar	414	11,632,961	
	Subtotal of dedu	ctions	18,069,964	18,069,964
Other deductions:				
Miscellaneous other deductions				
700 Interest Expense Capitalized for Accounting Purposes		390	107,078	
701 ITCs recorded for accounting		391	111,362	
704				
Total		394		
s s	Subtotal of other deductions	499	218,440 ►	218,440
	Total deductions	510	18,288,404 ►	18,288,404
Net income (loss) for income tax purposes – enter on line 300 of the T				933,280
				~
T2 SCH 1 E (12)				Canadä

# Inducement

This form is used to calculate inducements that a corporation must add to its income under paragraph 12(1)(x) of the ITA. If an amount reduces the capital cost of a property, this amount will be indicated in Part "Tax credits whose amount should reduce the capital cost of property."

If you want to transfer an amount to Schedule 1 and include it in the corporation's income for tax purposes, select the corresponding check box in column A. You can also select the option **Select this check box to add all the amounts to income calculated in Schedule 1** to transfer all the amounts to Schedule 1. In either case, the column A check box will be selected for that amount and it will therefore be updated to Schedule 1.

#### Tax credits whose amount should be added to income

Тал		
Selec	ct this check box to add all the amounts to income calculated in Schedule 1.	
Fede	eral	
Α		
X	Investment tax credit from apprenticeship job creation expenditures	4,000
X	Investment tax credit from child care spaces expenditures	
	Canadian film or video production tax credit*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
	Film or video production services tax credit*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
X	Investment tax credit claimed on contributions made to SR&ED farming organizations	
Onta	ario	
Α		
X	Portion of the Ontario research and development tax credit that relates to the prescribed proxy amount (PPA) and portion of the Ontario investment tax credit that relates to contributions made to SR&ED farming organizations	12,869
X	Ontario co-operative education tax credit	10,576
X	Ontario apprenticeship training tax credit	18,251
	Ontario computer animation and special effects tax credit*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
	Ontario film and television tax credit*	
	* Please verify if the credit amount relates to depreciable property.	
	Ontario production services tax credit*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
	Ontario interactive digital media tax credit*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
	Ontario sound recording tax credit*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
	Ontario book publishing tax credit	
X	Portion of the Ontario innovation tax credit that relates to the prescribed proxy amount (PPA) and portion of the Ontario investment tax credit that relates to contributions made to SR&ED farming organizations	
	Ontario business-research institute tax credit	
	Ontario tax credit for the purchase of vehicles that use natural gas as a fuel*	
	* Please verify if the credit amount relates to depreciable property. For more information, press F1 to consult the Help.	
	Ontario tax credit for educational success	

#### Tax credits whose amount should reduce the capital cost of property

Schedule 2



Agence du revenu du Canada

# Charitable Donations and Gifts

		5	
Corporation's name		Business number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.		89172 5210 RC0001	2013-12-31
<ul> <li>For use by corporations to claim any of the following:         <ul> <li>charitable donations to qualified donees;</li> <li>gifts to Canada, a province, or a territory;</li> <li>gifts of certified cultural property;</li> <li>gifts of certified ecologically sensitive land; or</li> <li>additional deduction for gifts of medicine.</li> </ul> </li> </ul>			
C C C C C C C C C C C C C C C C C C C			7
<ul> <li>The donations and gifts are eligible for a five-year carryforward.</li> <li>Use this schedule to show a transfer of unused amounts from previous years followin described under subsections 87(1) and 88(1) of the federal <i>Income Tax Act</i>.</li> </ul>	ig an amalgamation o	the wind-up of a subsidiary as	
<ul> <li>For donations and gifts made after March 22, 2004, subsection 110.1(1.2) of the feder</li> <li>Where a particular corporation has undergone an acquisition of control, for tax yes claim a deduction for a gift made by the particular corporation to a qualified donee</li> <li>If a particular corporation makes a gift to a qualified donee pursuant to an arrange expected, no corporation can claim a deduction for the gift unless the person acqu</li> <li>The eligible amount of a charitable gift is the amount by which the fair market value of</li> </ul>	ars that end on or afte before the acquisitior ement under which bo uiring control of the pa	r the acquisition of control, no c n of control th the gift and the acquisition of rticular corporation is the qualifi	control is ed donee.
<ul> <li>A gift of medicine made after March 18, 2007, to qualifying organizations for activities the gift is an eligible medical gift. This additional deduction is calculated in Part 6.</li> </ul>	0		0
<ul> <li>File one completed copy of this schedule with your T2 Corporation Income Tax Return</li> </ul>	m K	a <i>d</i>	
<ul> <li>For more information, see the T2 Corporation - Income Tax Guide.</li> </ul>		Ŭ	
Part 1 – Charitable donations			
Charity/Recipient		A	mount (\$100 or more or
Oshawa Community Health Centre	- 💙		3,998
Blue Sea Philanthropy			250
The Dragon Flies			250
Our Youth at Work Association			5,000
Life Outreach International	<b>,</b> )		250
	V	Subtotal	9,748
. Y	Add:Total do	nations of less than \$100 each	5
	Tot	al donations in current tax year	9,798
A	Federal	Québec	Alberta
Charitable donations at the end of the previous tax year		A	
Deduct: Charitable donations expired after five tax years*			
Charitable donations at the beginning of the tax year		B	
Add: Charitable donations transferred on an amalgamation or the wind-up of a subsidiary			
Total current-year charitable donations made (enter this amount on line 112 of Schedule 1)	9,798	9,798	9,79
	9,798		9,798
Subtotal (line 250 <b>plus</b> line 210)	9,798		9,798
Subtotal (amount B <b>plus</b> amount C) Deduct: Adjustment for an acquisition of control (for donations made after March 22, 2004)	7,770		
Total charitable donations available (amount D <b>minus</b> amount on line 255) <b>Deduct:</b> Amount applied against taxable income	9,798	E9,798	9,798
(cannot be more than amount O in Part 2)	9,798	9,798	9,798
(enter this amount on line 311 of the T2 return)			

#### - Amounts carried forward - Charitable donations -

Year of origin:		Federal	Québec	Alberta
1 <sup>st</sup> prior year			Quodoo	, aborta
2 <sup>nd</sup> prior year				
3 <sup>rd</sup> prior year				·
4 <sup>th</sup> prior year	2009-1			
5 <sup>th</sup> prior year	2007-1			
6 <sup>th</sup> prior year*				·
7 <sup>th</sup> prior year	2007 1			·
8 <sup>th</sup> prior year	2005-1		p	X
9 <sup>th</sup> prior year	2003 1			
10 <sup>th</sup> prior year	2003-1		A	
11 <sup>th</sup> prior year	2002-1			SV
12 <sup>th</sup> prior year	2002-1			V
13 <sup>th</sup> prior year	2001-0			
14 <sup>th</sup> prior year	2001-0			
15 <sup>th</sup> prior year				
16 <sup>th</sup> prior year				
17 <sup>th</sup> prior year			s ADV	
		(i		
18 <sup>th</sup> prior year				
19 <sup>th</sup> prior year 20 <sup>th</sup> prior year				
20 <sup>°</sup> prior year*			<u> </u>	
, ,		<u>7-30</u>	9	
Total (to line A)				
* For the federa March 24, 200	al and Alberta, the 6 <sup>th</sup> prior year gifts expire in the current y 06, expire in the current year and the 21 <sup>st</sup> prior year gifts m	ear. For Québec, the 6 <sup>er</sup> prior year gift ade in a tax year that ended after Mar	ts made in a tax year that er rch 23, 2006, expire in the c	nded before current year.
– Part 2 – Ca	alculation of the maximum allowable ded	uction for charitable donati	ions	
Net income for t	tax purposes * <b>multiplied</b> by 75 %			. <u>699,960</u> F
Taxable capital	gains arising in respect of gifts of capital property include	d in Part 👬		G
	gain in respect of deemed gifts of non-qualifying securities	s per		•
subsection 40(1		227		Н
	f the recapture of capital cost	30		
	espect of charitable gifts			
outlays and ex		I A A A A A A A A A A A A A A A A A A A		
Capital cost **	A.	J		
•	whichever is less	35		
		N		IZ
Amount on line	230 or 235, whichever is less	᠃		K
	AN	· · · · · · · · · · · · · · · · · · ·		L /
			ount L multiplied by 25 %	
Maximum allo	wable deduction for charitable donations (enter amou		al (amount F <b>plus</b> amount N	N) 033'200 N
				9,798 o
purposes, which				
* For credit ur	nions, this amount is before the deduction of payments pur	suant to allocations in proportion to be		

 $\bigcirc$ 

A Maria

Part 3 – Gifts to Canada, a province, or a territory ————			
Gifts to Canada, a province, or a territory at the end of the previous tax year			A
Deduct: Gifts to Canada, a province, or a territory expired after five tax years          Gifts to Canada, a province, or a territory at the beginning of the tax year          Add:			
Gifts to Canada, a province, or a territory transferred on an amalgamation or the windup of a subsidiary	3		
Total current-year gifts made to Canada, a province, or a territory *			
Sudtotai (line	350 <b>plus</b> line 31	,	U
Deduct	Su	ibtotal (amount B <b>plus</b> amount C	D
Deduct:		79	Š
Adjustment for an acquisition of control (for gifts made after March 22, 2004)			Y
Amount applied against taxable income (enter this amount on line 312 of the T2 return)	355 <b>plus</b> line 36		E E
	555 <b>pius</b> inte 50	38	
Gifts to Canada, a province, or a territory closing balance (amount D minus amount E)			
* Not applicable for gifts made after February 18, 1997, unless a written agreement wa agreement exists, enter the amount on line 210 and complete Part 2.	s made before th	is date. If no written	
□ Part 4 – Gifts of certified cultural property			
	Federal	Québec	Alberta
Gifts of certified cultural property at the end of the previous tax year	6	F	
Deduct: Gifts of certified cultural property expired after five tax years* 439		× n	
Gifts of certified cultural property at the beginning of the tax year 440		6	
Add:	$\land$	2)	
Gifts of certified cultural property transferred on an amalgamation or the windup of a subsidiary		7	
Total current-year gifts of certified cultural property	$\sim$		
Subtotal (line 450 plus line 410)		н	
Subtotal (amount G <b>plus</b> amount H)		''' _ I	
Deduct:	$\sim$		
Adjustment for an acquisition of control (for gifts made after March 22, 2004)       455         Amount applied against taxable income (enter this amount on line 313 of the T2 return)       460			
Subtotal (line 455 plus line 460)		J	
Gifts of certified cultural property closing balance (amount I minus amount J)			
* For the federal and Alberta, the gifts expire after five tax years. For Quebec, gifts made tax years and gifts made in a tax year that ended after March 23, 2006, expire after twe		ended before March 24, 2006, e	expire after five

2

# ┌ Amount carried forward – Gifts of certified cultural property -

Year of origin:		Federal	Québec	Alberta
1 <sup>st</sup> prior year				
2 <sup>nd</sup> prior year				
3 <sup>rd</sup> prior year				
4 <sup>th</sup> prior year				
5 <sup>th</sup> prior year				
6 <sup>th</sup> prior year*	<u>2007-12-31</u>			
7 <sup>th</sup> prior year	<u>2006-12-31</u>		N	>
8 <sup>th</sup> prior year	<u>2005-12-31</u>			Na
9 <sup>th</sup> prior year				V.
10 <sup>th</sup> prior year				V
11 <sup>th</sup> prior year	<u>2002-12-31</u>			
12 <sup>th</sup> prior year	<u>2001-12-31</u>			
13 <sup>th</sup> prior year	<u>2001-09-30</u>			
14 <sup>th</sup> prior year	<u>2000-09-30</u>			
15 <sup>th</sup> prior year	<u>1999-09-30</u>			
16 <sup>th</sup> prior year	<u></u>			
17 <sup>th</sup> prior year	<u>1997-09-30</u>			
18 <sup>th</sup> prior year	<u>1996-09-30</u>			
19 <sup>th</sup> prior year	<u></u>			
20 <sup>th</sup> prior year	<u>1994-09-30</u>	W.	<u>л</u>	
21 <sup>st</sup> prior year*	<u>1993-09-30</u>		Y	
Total	• • • • • • • • • • • • • • • • • • • •	· (S)		

\* For the federal and Alberta, the 6<sup>th</sup> prior year gifts expire in the current year. For Québec, the 6<sup>th</sup> prior year gifts made in a tax year that ended before March 24, 2006, expire in the current year and the 21<sup>st</sup> prior year gifts made in a tax year that ended after March 23, 2006, expire in the current year.

2

Part 5 – Gifts of certified ecologically sensitive land ——	¥		
	Federal	Québec	Alberta
Gifts of certified ecologically sensitive land at the end of the previous tax year		К	
Deduct: Gifts of certified ecologically sensitive land expired* 539			
Gifts of certified ecologically sensitive land at the beginning of the tax year	2	L	
Add:	V		
Gifts of certified ecologically sensitive land transferred on an amalgamation or the windup of a subsidiary <b>550</b>			
Gifts of certified ecologically sensitive land made before February 11, 2014			
Gifts of certified ecologically sensitive land made after February 10, 2014			+
Total current-year gifts of certified ecologically sensitive land			
Subtotal (line 550 plus line 510)		Μ	
Suptotal (amount L plus amount M)		Ν	
Deduct: Adjustment for an acquisition of control (for gifts made after March 22, 2004)			
Amount applied against taxable income (enter this amount on line 314 of the T2 return)			
		•	
Subtotal (line 555 <b>plus</b> line 560)		0	
Gifts of certified ecologically sensitive land closing balance (amount N minus amount O)			
* For the federal and Alberta, gifts made before February 11, 2014, expire after five For Québec, gifts made during a tax year that ended before March 24, 2006, expire March 23, 2006 expire after twenty tax years.			

# $_{\square}$ Amounts carried forward – Gifts of certified ecologically sensitive land –

Year of origin:		Federal	Québec	Alberta
1 <sup>st</sup> prior year				
2 <sup>nd</sup> prior year				
3 <sup>rd</sup> prior year				
4 <sup>th</sup> prior year				
5 <sup>th</sup> prior year				
6 <sup>th</sup> prior year*				
7 <sup>th</sup> prior year			M	>
8 <sup>th</sup> prior year	<u>2005-12-31</u>			
9 <sup>th</sup> prior year				s S
10 <sup>th</sup> prior year			- <u> </u>	/
11 <sup>th</sup> prior year*			- <u></u>	
12 <sup>th</sup> prior year				
13 <sup>th</sup> prior year				
14 <sup>th</sup> prior year				
15 <sup>th</sup> prior year				
16 <sup>th</sup> prior year				
17 <sup>th</sup> prior year				
18 <sup>th</sup> prior year				
19 <sup>th</sup> prior year		S		
20 <sup>th</sup> prior year			<u></u>	
21 <sup>st</sup> prior year*			<u> </u>	
Total		· 4 5	)	

For the federal and Alberta, gifts made before February 11, 2014, expire after five tax years and gifts made after February 10, 2014, expire after ten tax years. The field "Amount of carried forward gifts made on or after February 11, 2014, in the tax year including this date" is used to determine the portion of the gifts made in the tax year straddling February 11, 2014, that expires after ten tax years.

For Québec, gifts made during a tax year that ended before March 24, 2006, expire after five tax years and gifts made in a tax year that ended after March 23, 2006, expire after twenty tax years.

Part 6 –	Additional	deduction	for aifts	of medicine -

		Federal	Québec	Alberta
Iditional deduction for gifts of medicine at the er	nd of the previous tax year	P	QUEDEC	
duct: Additional deduction for gifts of medicine	expired after	I		
etax years	639			
ditional deduction for gifts of medicine at the be	0.10	Q		
he tax year		Q		
l <b>d:</b> dditional deduction for gifts of medicine transfe	arred on an			
malgamation or the wind-up of a subsidiary	650			
dditional deduction for gifts of medicine for the				$\mathbb{N}$
-			0	
		1	A	
ost of gifts of medicine		2	R	2
50 a/	Subtotal (line 1 minus line 2)	3		3.
		4		
igible amount of gifts		5		5
	Additional deduction for gifts			
Federal	of medicine for			
× (	= the current year 610			
<b>\</b> c	Additional	((		
Québec	deduction for gifts	N.		
	of medicine for	$\searrow$	A.	
× ( <u>b</u>	= the current year	· · · · · · · · · · · · · · · · · · ·	A	
<b>X</b> C	Additional		2	
Alberta	deduction for gifts of medicine for			
x 🖌 b	= the current year			
	- <b>)</b>			
ere:				
the lesser of line 2 and line 4				
s the eligible amount of gifts (line 600)		_ (\$\)		
the proceeds of disposition (line 602)		V		
		. \		
	Subtotal (line 650 <b>plus</b> line 610)	R		·
	btotal (amount Q <b>plus</b> amount R)	∽y∕ s		
luct:				
djustment for an acquisition of control				·
nter this amount on line 315 of the T2 return)				
	Subtotal (line 655 plus line 660)	Т		
litional deduction for gifts of medicine closing b				
nount S <b>minus</b> amount T)	680			
•				
mounts carried forward – Additig	nal deduction for gifts o	f medicine ———		
		Federal	Québec	Alberta
ar of origin:	2012 12 21	reucial	QUEDEC	Albeita
	2012-12-31			
prior year				·
prior year	2010-12-31			
prior year				
prior year				
prior year*				
al				

□ Québec –	Gifts of	musical	instruments	
------------	----------	---------	-------------	--

Gifts of musical instruments at the end of the previous tax year	Α
Deduct: Gifts of musical instruments expired after twenty tax years	В
Gifts of musical instruments at the beginning of the tax year	C
Add:	
Gifts of musical instruments transferred on an amalgamation or the wind-up of a subsidiary	D
Total current-year gifts of musical instruments	E
Subtotal (line D <b>plus</b> line E)	F
Deduct: Adjustment for an acquisition of control	G
	Н
Deduct: Amount applied against taxable income	I
Gifts of musical instruments closing balance	J

#### - Amounts carried forward - Gifts of musical instruments -

Year of origin:		$\sim$	Québec
1 <sup>st</sup> prior year			
2 <sup>nd</sup> prior year			
3 <sup>rd</sup> prior year			
4 <sup>th</sup> prior year			
5 <sup>th</sup> prior year		<u>2008-12-31</u>	
6 <sup>th</sup> prior year*			
7 <sup>th</sup> prior year		<u>2006-12-31</u>	
8 <sup>th</sup> prior year			
9 <sup>th</sup> prior year			
10 <sup>th</sup> prior year			
11 <sup>th</sup> prior year			
12 <sup>th</sup> prior year	· · · · · · · · · · · · · · · · · · ·		
13 <sup>th</sup> prior year	· · · · · · · · · · · · · · · · · · ·		
14 <sup>th</sup> prior year			
15 <sup>th</sup> prior year	· · · · · · · · · · · · · · · · · · ·		
16 <sup>th</sup> prior year			
17 <sup>th</sup> prior year	· · · · · · · · · · · · · · · · · · ·		
18 <sup>th</sup> prior year	· · · · · · · · · · · · · · · · · · ·		
19 <sup>th</sup> prior year			
20 <sup>th</sup> prior year	A		
21 <sup>st</sup> prior year*			
Total	·····		
* These gifts exp	ired in the current year.		

T2 SCH 2 E (13)

1) 1

#### Filed: 2015-01-29, EB-2014-0101, Exhibit 4, Appendix 4-5, Page 55 of 112 2013-12-31 Oshawa PUC Networks Inc. 89172 5210 RC0001



Canada Revenue Agence du revenu Agency du Canada

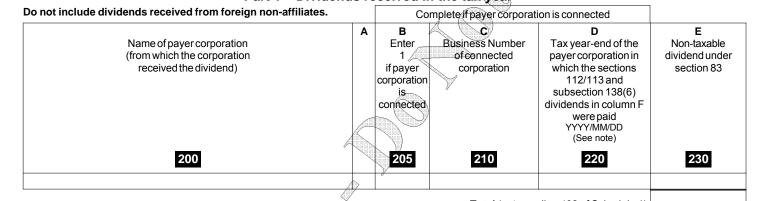
#### DIVIDENDS RECEIVED, TAXABLE DIVIDENDS PAID, AND PART IV TAX CALCULATION

**SCHEDULE 3** 

Name of corporation	Business Number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31
<ul> <li>This schedule is for the use of any corporation to report: <ul> <li>non-taxable dividends under section 83;</li> <li>deductible dividends under subsection 138(6);</li> <li>taxable dividends deductible from income under section 112, subsection 113(2) and paragr</li> <li>taxable dividends paid in the tax year that qualify for a dividend refund.</li> </ul> </li> </ul>	raphs 113(1)(a), (b) or (d); or	<u>.</u>
<ul> <li>The calculations in this schedule apply only to private or subject corporations.</li> </ul>		Y
• Parts, sections, subsections, and paragraphs referred to on this schedule are from the federal .	Income Tax Act.	$\supset$

- A recipient corporation is connected with a payer corporation at any time in a tax year, if at that time the recipient corporation:
  - controls the payer corporation, other than because of a right referred to in paragraph 251(5)(b); or
  - owns more than 10% of the issued share capital (with full voting rights), and shares that have a fair market value of more than 10% of the fair market value of all shares of the payer corporation.
- File one completed copy of this schedule with your T2 Corporation Income Tax Return.
- Column A Enter "X" if dividends received from a foreign source (connected corporation only).
- Column F1 Enter the amount of dividends received reported in column 240 that are eligible.
- Column F2 Enter the code that applies to the deductible taxable dividend.
- Column F3 Enter if dividends have been received or not after December 20, 2012. This information is required for corporations that must complete Schedules 71 and 72. For more details with regards to this column, consult the Help.

Part 1 – Dividends received in the tax year



Total (enter on line 402 of Schedule 1)

Note: If your corporation's tax year-end is different than that of the connected payer corporation, your corporation could have received dividends from more than one tax year of the payer corporation. If so, use a separate line to provide the information for each tax year of the payer corporation. For more details, consult the Help.

deductible from taxable income under section 112, subsections 113(2) and 138(6), and paragraphs 113(1)(a), (b), or (d)*     (included in column F)     dividends paid by connected payer corporation (for tax year in column D)     of the payer (for in column D)		
Taxable dividends deductible from taxable income under section 112, subsections 113(2) and 138(6), and paragraphs 113(1)(a), (b), or (d)*Eligible dividends (included in column F)Total taxable dividends paid by connected payer corporation (for tax year in column D)Divid of the payer in column D)	onnected	poration is connected
	e connected before deductions r corporation F x 1 / 3 ***	H Dividend refund of the connected payer corporation (for tax year in column D)**
	260 270	260

Total (enter the amount from column F on line 320 of the T2 return and amount J in Part 2)

- \* If taxable dividends are received, enter the amount in column 240, but if the corporation is not subject to Part IV tax (such as a public corporation other than a subject corporation as defined in subsection 186(3)), enter "0" in column 270. Life insurers are not subject to Part IV tax on subsection 138(6) dividends.
- \*\* If the connected payer corporation's tax year ends after the corporation's balance-due day for the tax year (two or three months, as applicable), you have to estimate the payer's dividend refund when you calculate the corporation's Part IV tax payable.
- \*\*\* For dividends received from connected corporations:
- Part IV tax = Column F x Column H

Column G

Part 2 – Calculation of Part IV tax payable -	
Part IV tax before deductions (amount J in Part 1)	
Deduct:	
Part IV.I tax payable on dividends subject to Part IV tax	
Deduct:       330         Current-year non-capital loss claimed to reduce Part IV tax       330         Non-capital losses from previous years claimed to reduce Part IV tax       335         Current-year farm loss claimed to reduce Part IV tax       340         Farm losses from previous years claimed to reduce Part IV tax       345         Total losses applied against Part IV tax	x 1 / 3 =
Part IV tax payable (enter amount on line 712 of the T2 return)	

# — Part 3 – Taxable dividends paid in the tax year that qualify for a dividend refund –

			`		
	Α	В	C	D	D1
	Name of connected recipient corporation	Business Number	Tax year end of connected recipient corporation in which the dividends in column D were received YYYY//M/DD (See note)	Taxable dividends paid to connected corporations	Eligible dividends (included in column D)
	400	410	420	430	
1	Oshawa Power and Utilities Corporation	86486 7593 RC0001	2013-12-31	1,700,000	1,700,000
Note					
lf you	r corporation's tax year-end is different than that of the connected recipie	ent corporation, your corpo	ration		1 700 000
provi	have paid dividends in more than one tax year of the recipient corporation to the recipient corporation to the the information for each tax year of the recipient corporation. For more	on, it so, use a separate lir e details, consult the Help.	ie to	Total	1,700,000
		<pre>V Y</pre>		450	
Total	taxable dividends paid in the tax year to other than connected corporatio	ns 🕎		450	
Eligit	le dividends (included in line 450)	⊘ 450a			
Total	taxable dividends paid in the tax year that qualify for a dividend refund	/			
	of column D above <b>plus</b> line 450)				1,700,000
	Part 4 Total div	idends paid in the	tax year ——		
	olete this part if the total taxable dividends paid in the tax year that qualify ends paid in the tax year.	y for a dividend refund (line	e 460 above) is diff	erent from the total	
Total	taxable dividends paid in the tax year for the purposes of a dividend refu	nd (from above)			1,700,000
Othe	r dividends paid in the tax year (total of 510 to 540) $\qquad \qquad \qquad$				
Total	dividends paid in the tax year				1,700,000
Dedu	ict:				
Div	idends paid out of capital dividend account				
	pital gains dividends				
	kable dividends paid to a controlling corporation that was bankrupt	540			
	A A A	Subtotal		_ ▶ _	
Total	taxable dividends paid in the tax year that qualify for a dividend refund				1,700,000
L					C . 11+
T2 SC	H 3 E (10)				Canadä

Rusiness Number

Schedule 5

Tay year and

#### Canada Revenue Agence du revenu du Canada

Corporation's name
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Agency

### **TAX CALCULATION SUPPLEMENTARY – CORPORATIONS**

corporation of anno				Buoinocortambor	Year Month Day					
Oshawa PUC Ne	tworks Inc.		89172 5210 RC0001	2013-12-31						
Use this schedule if, during the tax year, the corporation:										
(corporations – is claiming pr	<ul> <li>had a permanent establishment in more than one jurisdiction (corporations that have no taxable income should only complete columns A, B and D in Part 1);</li> <li>is claiming provincial or territorial tax credits or rebates (see Part 2); or</li> <li>has to pay taxes, other than income tax, for Newfoundland and Labrador, or Ontario (see Part 2).</li> </ul>									
		schedule are from the Income			A.	ĺ				
		T2 Corporation – Income Tax C	Guide.		- A					
Enter the regulation						V.				
- Part 1 - Alloca 100	ation of ta	ixable income		Enter the Regulat	ion that applies (402 to 413),	7				
Α		В	С	D	<u> </u>	F				
Jurisdictic Tick yes if the cor had a permar establishment jurisdiction during the	poration nent in the	Total salaries and wages paid in jurisdiction	(B x taxable income**) / G	Gross reve	nue (D xtaxable income**) / H	Allocation of taxable income (C + E) x 1/2*** (where either G or H is nil, do not multiply by 1/2)				
Newfoundland and Labrador	003 1 Yes	103		143	<u> </u>					
Newfoundland and Labrador Offshore	004 1 Yes	104		144	2					
Prince Edward Island	005 1 Yes	105		145	$\mathbf{\mathcal{P}}$					
Nova Scotia	007 1 Yes	107		147	9					
Nova Scotia Offshore	008 1 Yes	108		148						
New Brunswick	009 1 Yes	109	(	149						
Quebec	011 1 Yes	111		151						
Ontario	013 1 Yes	113	$\sim$	153						
Manitoba	1 Yes	115		155						
Saskatchewan	017 1 Yes	117		157						
Alberta	019 1 Yes	119		159						
British Columbia	021 1 Yes	121	<u>R</u>	161						
Yukon	023 1 Yes	123	)	163						
Northwest Territories	025 1 Yes	125		165						
Nunavut	026 1 Yes	126		166						
Outside Canada	<b>027</b> 1 Yes	127		167						
Total		129 G		169	н					
* "Dormanont oct	abliabmant"	s defined in Regulation 400(2)								

\*\* If the corporation has income or loss from an international banking centre: the taxable income is the amount on line 360 or line Z of the T2 return plus the total amount not required to be included, or minus the total amount not allowed to be deducted, in calculating the corporation's income under section 33.1 of the federal Income Tax Act. This does not apply to tax years starting after March 20, 2013.

\*\*\* For corporations other than those described under Regulation 402, use the appropriate calculation described in the Regulations to allocate taxable income.

#### Notes:

After determining the allocation of taxable income, you have to calculate the corporation's provincial or territorial tax payable. For more information on how 1.

to calculate the tax for each province or territory, see the instructions for Schedule 5 in the T2 Corporation - Income Tax Guide.

2. If the corporation has provincial or territorial tax payable, complete Part 2.



#### □ Part 2 – Ontario tax payable, tax credits, and rebates –

Total taxable income	Income eligible for small business deduction	Provincial or territorial allocation of taxable income	Provincial or territorial tax payable before credits			
923,482		923,482	71,200			
Ontario basic incom	e tax (from Schedule	500)		270	106,200	
Deduct: Ontario smal	ll business deduction (	from Schedule 500)			35,000 71,200	71,200_ A6
Add:						
Ontario additional ta	ax re Crown royalties (f	rom Schedule 504)				
	tax debits (from Sched	,				
Recapture of Ontari	o research and develo	pment tax credit (from S	chedule 508) .	277		
				Subtotal		B6
				Subtotal (am	nount A6 plus amount B6)	71,200 C6
Deduct:				·		
Ontario resource ta	x credit (from Schedule	e 504)				
Ontario tax credit fo	r manufacturing and p	rocessing (from Schedu	le 502)			
Ontario foreign tax	credit (from Schedule 2	21)		<mark>408</mark> 🥂	¥	
Ontario credit union	tax reduction (from So	hedule 500)		- No.	<u></u>	
Ontario transitional	tax credits (from Schee	dule 506)		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Ontario political cor	tributions tax credit (fro	om Schedule 525)				
Other Ontario non-r	efundable credits			· <u>/</u> )	、	
				Subtotal		D6
			Subtotal (amou	unt C6 minus amount	D6) (if negative, enter "0")	71,200 E6
Deduct: Ontario rese	arch and development	tax credit (from Schedu	. (		416	11,285
		Ontario corporate minii				<u>.</u>
(if negative, enter "0")					······································	<u>59,915</u> F6
			- N			
Deduct: Ontario corp	orate minimum tax cre	dit (from Schedule 510)				
Ontario corporate inco	ome tax payable (amou	nt F6 <b>minus</b> amount on	line 418 (if negative	enter "0")		59,915 G6
Add:	ino tax pagablo (amoa		A			00
	ninimum tax (from Sche	edule 510)	A		22,840	
•	•	nce corporations (from	Schedule 512)	280		
		. 20	() d (	Subtotal	22,840 ►	22,840 н6
<b>T</b> ( ) <b>O</b> ( ) ( )						
Total Ontario tax paya	ble before refundable	credits (amount G6 plus	amount H6) .			<u>82,755</u> I6
	nvironmental trust tax o	redit		450		
	e education tax credit (			452		
	ship training tax credit	_ ,		454	20,000	
	-	ffects tax credit (from So		456	- /	
	evision tax credit (from		<i>,</i>			
Ontario production	services tax credit (fror	n Schedule 558) .				
Ontario interactive of	digital media tax credit	(from Schedule 560)				
Ontario sound reco	rding tax credit (from S	chedule 562)				
Ontario book publis	hing tax credit (from So	chedule 564)				
Ontario innovation ț	ax credit (from Schedu	le 566)				
Ontario business-re	search institute tax cre	edit (from Schedule 568)	)			
(	$\sim$			Subtotal	20,000 ►	20,000 J6
Net Ontario tax pava	able or refundable cr	edit (amount 16 minus a	amount J6)		290	62,755 <b>к</b> 6
		this amount on line 255	,			

255

#### - Summary -

Enter the total net tax payable or refundable credits for all provinces and territories on line 255.

#### Net provincial and territorial tax payable or refundable credits

62,755

If the amount on line 255 is positive, enter the net provincial and territorial tax payable on line 760 of the T2 return. If the amount on line 255 is negative, enter the net provincial and territorial refundable tax credits on line 812 of the T2 return.



\*

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**Schedule 8** 

# **Capital Cost Allowance (CCA)**

Corp	oration's	sname								Busin	ess Number		ear end onth Day
Os	shawa F	PUC Networks Inc.								89172 5	210 RC0001	2013	-12-31
		e information, see the section ca rporation electing under regulati	·	t Allowance" in th		n Income Tax Gu No 🗙	ide.					9	
	1		2	3	4	5	6	7	8	9	10	11	12
	Class number (See Note)	Description	Undepreciated capital cost at the beginning of the year (amount from column 12 of last year's schedule 8)	Cost of acquisitions during the year (new property must be available for use)*	Adjustments and transfers**	Proceeds of dispositions during the year (amount not to exceed the capital cost)	50% rule (1/2 of the amount, if any, by which the net cost of acquisitions exceeds column 5)***	Reduced undepreciated capital cost	CCA rate	Recapture of capital cost allowance***** (fine 107 of Schedule 1)	Terminal loss (line 404 of Schedule 1)	Capital cost allowance (for declining balance method, column 7 <b>multiplied</b> by column 8, or a lower amount) (line 403 of Schedule 1)	Undepreciated capital cost at the end of the year (column 6 <b>plus</b> column 7 <b>minus</b> column 11)
	200		201	203	205	207	211		212	213	215	217	220
1.	1		40,197,091			0		40,197,091	4	0	0	1,607,884	38,589,207
2.	8		949,297	185,308		0	92,654	1,041,951	20	0	0	208,390	926,215
3.	10		1,737,600	49,342		0	24,671	1,762,271	30	0	0	528,681	1,258,261
4.	42		29,946			$\sum_{i=1}^{n}$		29,946	12	0	0	3,594	26,352
5.	13		440,758	18,265		N O		449,890	NA	0	0	76,734	382,289
6.	45		6,310			0		6,310	45	0	0	2,840	3,470
7.	95		1,182,239		120,602	0		1,302,841	0	0	0		1,302,841
8.	47		38,485,354	9,622,688		0	4,811,344	43,296,698	8	0	0	3,463,736	44,644,306
9.	45		3,604		$ \rightarrow $	0		3,604	55	0	0	1,982	1,622
10.	50		95,794	242,213	$\sim U/$	) 0	121,107	216,900	55	0	0	119,295	218,712
11.	12		229,558	377,372		0	188,686	418,244	100	0	0	418,244	188,686
12.	10.1	Chevrolet Volt	18,742			N/A		18,742	30	N/A	N/A	5,623	13,119
		Totals	83,376,293	10,495,188	120,602		5,247,595	88,744,488				6,437,003	87,555,080

- **Note:** Class numbers followed by a letter indicate the basic rate of the class taking into account the additional deduction allowed. Class 1a: 4% + 6% = 10% (class 1 to 10%), class 1b: 4% + 2% = 6% (class 1 to 6%).
  - \* Include any property acquired in previous years that has now become available for use. This property would have been previously excluded from column 3. List separately any acquisitions that are not subject to the 50% rule, see Regulation 1100(2) and (2.2).
  - \*\* Enter in column 4, "Adjustments and transfers", amounts that increase or reduce the undepreciated capital cost. Items that **increase** the undepreciated capital cost:
    - Amounts transferred under section 85, or transferred on amalgamation and winding-up of a subsidiary. Items that **reduce** the undepreciated capital cost:
    - Government assistance received or entitled to be received in the year, or a reduction of capital cost after the application of section 80.
       See the T2 Corporation Income Tax Guide for other examples of adjustments and transfers to include in column 4.
  - \*\*\* The net cost of acquisitions is the cost of acquisitions (column 3) **plus** or **minus** certain adjustments and transfers from column 4. For exceptions to the 50% rule, see Interpretation Bulletin IT-285, *Capital Cost Allowance – General Comments.*
  - \*\*\*\* Enter a rate only if you are using the declining balance method. For any other method (for example the straight-line method, where calculations are always based on the cost of acquisitions), enter N/A. Then enter the amount you are claiming in column 11.
- \*\*\*\*\* For every entry in column 9, the "Recapture of capital cost allowance" there must be a corresponding entry in column 5, "Proceeds of dispositions during the year". The recapture and terminal loss rules do not apply to passenger vehicles in Class 10.1.
- \*\*\*\*\*\* If the tax year is shorter than 365 days, prorate the CCA claim. Some classes of property do not have to be prorated. See the T2 Corporation Income Tax Guide for more information.

T2 SCH 8 (13)

# Fixed Assets Reconciliation

Reconciliation of change in fixed assets per financial statements to amounts used per tax return.

Tax return		
Additions for tax purposes – Schedule 8 regular classes	10,476,923	
Additions for tax purposes – Schedule 8 leasehold improvements	+ 18,265	
Operating leases capitalized for book purposes	+	
Capital gain deferred	+	>
Recapture deferred	+	A 🖉
Deductible expenses capitalized for book purposes – Schedule 1	+ 107,078	, The second sec
Other (specify):		7
SR&ED assets	+ 43,000	
Total additions per boo	ks = 10,645,266	▶ 10,645,266
Proceeds up to original cost – Schedule 8 regular classes		
Proceeds up to original cost – Schedule 8 leasehold improvements	— <u>†</u> — <u> </u>	
Proceeds in excess of original cost – capital gain		
Recapture deferred – as above		
Capital gain deferred – as above		
Pre V-day appreciation		
Other (specify):		
Adjustment to CIP balance	+ -120,602	
_ ITC booked for accounting entry	+ 115,907	
Total proceeds per boo	<b>ks</b> =	-4,695
Depreciation and amortization per accounts – Schedule 1		- 3,653,000
Loss on disposal of fixed assets per accounts		- 208,000
Gain on disposal of fixed assets per accounts		+
	Net change per tax return	= 6,788,961
Financial statements Fixed assets (excluding land) per financial statements Closing net book value		77,504,000
Opening net book value		- 70,709,000
	nge per financial statements	= 6,795,000
If the amounts from the tax return and the financial statements differ, explain why below. Immaterial difference of \$6,093		



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# SCHEDULE 9

# **RELATED AND ASSOCIATED CORPORATIONS**

Name of corporation	Business Number	Tax year end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

• Complete this schedule if the corporation is related to or associated with at least one other corporation.

• For more information, see the T2 Corporation Income Tax Guide.

	· · ·							K	
	Name	Country of resi- dence (other than Canada)	Business number (see note 1)	Rela- tion- ship code (see note 2)	Number of common shares you own	% of common shares you own	Number of preferred shares you own	% of preferred shares you own	Book value of capital stock
	100	200	300	400	500	550	600	650	700
1.	OSHAWA POWER AND UTILITIES C		86486 7593 RC0001	1					
2.	OSHAWA PUC ENERGY SERVICES II		85749 1336 RC0001	3					
3.	OSHAWA PUC SERVICES INC.		86579 9662 RC0001	3			LY.		
4.	2252112 Ontario Inc.		80068 6453 RC0001	3			H)		

Note 1: Enter "NR" if the corporation is not registered or does not have a business number. Note 2: Enter the code number of the relationship that applies from the following order: 1 - Parent 2 - Subsidiary 3 - Associated 4 - Related but not associated

T2 SCH 9 (11)

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#### **SCHEDULE 11**

#### TRANSACTIONS WITH SHAREHOLDERS, OFFICERS, OR EMPLOYEES

Corporation's name	Business Number	Tax year end
		Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

Provide the details of any transactions with shareholders, officers or employees that involve:

- payments the corporation made or amounts credited to the account of shareholders, officers, or employees, which were not part of their remuneration or reimbursement of expenses;
- assets the corporation sold to or purchased from shareholders, officers, or employees, including those for which an election was made under section 85; or
- loans or indebtedness to shareholders, officers, or employees, or persons connected with a shareholder, which were not repaid by the end of the taxation year.

Relationship code (see note)	Payments	Reimbursement (Other than reimbursement of expenses)	Loans receivable from, or debts owing to	Assets sold or purchased	Does section 85 apply to assets sold or purchased?
	\$	\$	\$	\$	
100	200	300	400	500	550
1			23,064,000	~	Yes No
	n one relationship exi		1 - Shareholder 2 - Officer		
lowest appl	icable number)		3 - Employee		
11 (00)					Canada

T2 SCH 11 (00)

# Continuity of financial statement reserves (not deductible)

	Description	Balance at the beginning of the year	Transfer on an amalgamation or the wind-up of a subsidiary	Add	Deduct	Balance at the end of the year
1	Employee future benefits	11,380,000		268,800	K	11,648,80
2	Employee sick leave benefits	25,988		3,185		29,17
3	Allowance for Doubtful Account	226,973		248,836	226,973	248,83
4	Accrued Labour			121,070		121,07
	Reserves from Part 2 of Schedule 13					
	Totals	11,632,961		641,891	226,973	12,047,879

The total opening balance plus the total transfers should be entered on line 414 of Schedule 1 as a deduction. The total closing balance should be entered on line 126 of Schedule 1 as an addition.



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# **SCHEDULE 14**

### MISCELLANEOUS PAYMENTS TO RESIDENTS

Name of corporation	Business Number	Taxyearend	
		Year Month Day	
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31	

- This schedule must be completed by all corporations who made the following payments to residents of Canada: royalties for which the corporation has not filed a T5 slip; research and development fees; management fees; technical assistance fees; and similar payments.
- Please enter the name and address of the recipient and the amount of the payment in the applicable column. If several payments of the same type (i.e., management fees) were made to the same person, enter the total amount paid. If similar types of payments have been made, but do not fit into any of the categories, enter these amounts in the column entitled "Similar payments".

	Name of recipient	Address of recipient	Royalties	Research and development fees	Management fees	Technical assistance fees	Similar payments
	100	200	300	400	500	600	700
1	Oshawa Power and Utilities C	100 Simcoe Street South			480,000		
		Oshavia					
		Oshawa ON	_				
		L1H 7M7					
-2 SC	H 14 (99)						Canadă



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### Schedule 15

# **Deferred Income Plans**

Corporation's name	Business number	Tax year end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

Complete the information below if the corporation deducted payments from its income made to a registered pension plan (RPP), a registered supplementary
unemployment benefit plan (RSUBP), a deferred profit sharing plan (DPSP), a pooled registered pension plan (PRPP), or an employee profit sharing
plan (EPSP).

• If the trust that governs an employee profit sharing plan is **not resident** in Canada, please indicate if the T4PS, Statement of Employees Profit Sharing Plan Allocations and Payments, Supplementary slip(s) were filed for the last calendar year, and whether they were filed by the trustee or the employer.

Type of plan (see note 1)	Amount of contribution \$ (see note 2)	Registration number (RPP, RSUBP, PRPP, and DPSP only)	Name of EPSP trust	Address of EPSP trust	t T4PS slip(s) (see note 3)
100	200	300	400	500	600
1 1	664,790	0345983			
Note 1	I	Note 2		1	I
	applicable		to Schedule 1 any payments you made to defer	rred income plans.	
code num 1 – RPP	iber:		nents, calculate the following amount: icated in column 200 of this schedule		664,790 A
2 – RSUE	2P	Less:			
3 – DPSF			deferred income plans deducted in your financi	al statements	664,790 B
4 – EPSF			r contributions to deferred income plans		
5 – PRPF					С
		Enter amount C on line	417 of Schedule 1		
		Note 3	L.		
		T4PS slip(s) filed by:	1 – Trustee		
			2 Employer		
		Å	(EPSB only)		
T2 SCH 15	(13)				Canadä



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# **SCHEDULE 23**

#### AGREEMENT AMONG ASSOCIATED CANADIAN-CONTROLLED PRIVATE CORPORATIONS TO ALLOCATE THE BUSINESS LIMIT

- For use by a Canadian-controlled private corporation (CCPC) to identify all associated corporations and to assign a percentage for each associated corporation. This percentage will be used to allocate the business limit for purposes of the small business deduction. Information from this schedule will also be used to determine the date the balance of tax is due and to calculate the reduction to the business limit.
- An associated CCPC that has more than one tax year ending in a calendar year, is required to file an agreement for each tax year ending in that calendar year.
  - Column 1: Enter the legal name of each of the corporations in the associated group. Include non-CCPCs and CCPCs that have filed an election under subsection 256(2) of the Income Tax Act (ITA) not to be associated for purposes of the small business deduction.
  - Column 2: Provide the Business Number for each corporation (if a corporation is not registered, enter "NR").
  - Column 3: Enter the association code that applies to each corporation:
    - 1 Associated for purposes of allocating the business limit (unless code 5 applies)
    - 2 CCPC that is a "third corporation" that has elected under subsection 256(2) not to be associated for purposes of the small business deduction
    - 3 Non-CCPC that is a "third corporation" as defined in subsection 256(2)
    - 4 Associated non-CCPC
    - 5 Associated CCPC to which code 1 does not apply because of a subsection 256(2) election made by a "third corporation"
  - Column 4: Enter the business limit for the year of each corporation in the associated group. The business limit is computed at line 4 on page 4 of each respective corporation's T2 return.
  - **Column 5:** Assign a percentage to allocate the business limit to each corporation that has an association code 1 in column 3. The total of all percentages in column 5 cannot exceed 100%.
  - **Column 6:** Enter the business limit allocated to each corporation by multiplying the amount in column 4 by the percentage in column 5. Add all business limits allocated in column 6 and enter the total at line A. Ensure that the total at line A falls within the range for the calendar year to which the agreement applies:

Calend	aryear	Acceptable range	Calendaryear	Acceptable range
20	06	maximum\$300,000	2008	maximum \$400,000
20	07	\$300,001 to \$400,000	2009	\$400,001 to \$500,000

If the calendar year to which this agreement applies is after 2009, ensure that the total at line A does not exceed \$500,000.

- Allocating t	the husiness	limit
Anocating	ine business	mm

	Year Month Day								
Date	Date filed (do not use this area)								
	A Year								
Enter	Enter the calendar year to which the agreement applies								
	an amended agreement for the above-noted calendar year	ir that is intended to replace a	n agreem	entpreviously	075				
filed b	y any of the associated corporations listed below?	S) G			075	1 Yes 2 No X			
	1	2	3	4	5	6			
	Names of	Business	Asso-	Business limit	Percentage	Business			
	associated corporations	Number of associated	ciation code	for the year (before the allocation)	of the business	limit allocated*			
		corporations	couo	\$	limit	\$			
	100	200	300		% 350	400			
1	Oshawa PUC Networks Inc	89172 5210 RC0001	1	500,000	100.0000	500,000			
2	OSHAWA POWER AND UTILITIES CORPORATIO	86486 7593 RC0001	1	500,000					
3	OSHAWA PUC ENERGY SERVICES INC.	85749 1336 RC0001	1	500,000					
4	OSHAWA PUC SERVICES INC. PIL	86579 9662 RC0001	1	500,000					
5	2252112 Ontario Inc.	80068 6453 RC0001	1	500,000					
				Total	100.0000	500,000 <b>A</b>			

#### Business limit reduction under subsection 125(5.1) of the ITA

The business limit reduction is calculated in the small business deduction area of the T2 return. One of the factors used in this calculation is the "Large corporation amount" at line 415 of the T2 return. If the corporation is a member of an associated group\*\* of corporations in the current tax year, the amount at line 415 of the T2 return is equal to 0.225% x (A - \$10,000,000) where, "A" is the total of taxable capital employed in Canada\*\*\* of each corporation in the associated group for its last tax year ending in the preceding calendar year.

\* Each corporation will enter on line 410 of the T2 return, the amount allocated to it in column 6. However, if the corporation's tax year is less than 51 weeks, prorate the amount in column 6 by the number of days in the tax year divided by 365, and enter the result on line 410 of the T2 return.

Special rules apply if a CCPC has more than one tax year ending in a calendar year and is associated in more than one of those years with another CCPC that has a tax year ending in the same calendar year. If the tax year straddles January 1, 2009, the business limit for the second (or subsequent) tax year(s) will be equal to the lesser of the business limit that would have been determined for the first tax year ending in the calendar year, if \$500,000 was used in allocating the amounts among associated corporations and the business limit determined for the second (or subsequent) tax year(s) ending in the same calendar year. Otherwise, the business limit for the second (or subsequent) tax year(s) will be equal to the lesser of the business limit for the second (or subsequent) tax year(s) will be equal to the lesser of the business limit determined for the first tax year ending in the calendar year and the business limit determined for the second (or subsequent) tax year(s) ending in the same calendar year and the business limit determined for the second (or subsequent) tax year(s) ending in the same calendar year and the business limit determined for the second (or subsequent) tax year(s) ending in the same calendar year.

\*\* The associated group includes the corporation filing this schedule and each corporation that has an "association code" of 1 or 4 in column3.

\*\*\* "Taxable capital employed in Canada" has the meaning assigned by subsection 181.2(1) or 181.3(1) or section 181.4 of the ITA

T2 SCH 23 (09)

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### Schedule 31

# **Investment Tax Credit – Corporations**

#### - General information -

- Use this schedule:
  - to calculate an investment tax credit (ITC) earned during the tax year;
  - to claim a deduction against Part I tax payable;
  - to claim a refund of credit earned during the current tax year;
  - to claim a carryforward of credit from previous tax years;
  - to transfer a credit following an amalgamation or wind-up of a subsidiary, as described under subsections 87(1) and 88(1) of the federal *Income Tax Act*,
  - to request a credit carryback to one or more previous years; or
  - if you are subject to a recapture of ITC.
- The ITC is eligible for a three-year carryback (if not deductible in the year earned). It is also eligible for a twenty-year carryforward.
- All legislative references are to the federal Income Tax Act and Income Tax Regulations.
- Investments or expenditures, described in subsection 127(9) of the Act and Part XLVI of the Regulations, that earn an ITC are
  - qualified property and qualified resource property (Parts 4 to 7 of this schedule);
  - expenditures that are part of the SR&ED qualified expenditure pool (Parts 8 to 17). File Form T661, Scientific Research and Experimental Development (SR&ED) Expenditures Claim;
  - pre-production mining expenditures (Parts 18 to 20);
  - apprenticeship job creation expenditures (Parts 21 to 23); and
  - child care spaces expenditures (Parts 24 to 28).
- Include a completed copy of this schedule with the T2 Corporation Income Tax Return. If you need more space, attach additional schedules.
- For more information on ITCs, see "Investment Tax Credit" in Guide T4012, T2 Corporation Income Tax Guide, Information Circular IC 78-4, Investment Tax Credit Rates, and its related Special Release.
- For more information on SR&ED, see Brochure RC4472, Overview of the Scientific Research and Experimental Development Program (SR&ED) Tax Incentive Program; Brochure RC4467, Support for your R&D in Canada, and T4088, Guide to Form T661 – Scientific Research and Experimental Development (SR&ED) Expenditures Claim. Also see the Eligibility of Work for SR&ED Investment Tax Credits Policy at www.cra.gc.ca/txcrdt/sred-rsde/clmng/lgbltywrkfrsrdnvstmnttxcrdts-eng.html.

#### - Detailed information -

- For the purpose of this schedule, **investment** means the capital cost of the property (excluding amounts added by an election under section 21 of the Act), determined without reference to subsections 13(7.1) and 13(7.4), minus the amount of any government or non-government assistance that the corporation has received, is entitled to receive, or can reasonably be expected to receive for that property when it files the income tax return for the year in which the property was acquired.
- An ITC deducted or refunded in a tax year for a depreciable property, other than a depreciable property deductible under paragraph 37(1)(b), reduces the capital cost of that property in the next tax year. It also reduces the undepreciated capital cost of that class in the next tax year. An ITC for SR&ED deducted or refunded in a tax year will reduce the balance in the pool of deductible SR&ED expenditures and the adjusted cost base (ACB) of an interest in a partnership in the next tax year. An ITC from pre-production mining expenditures deducted in a tax year reduces the balance in the pool of deductible cumulative Canadian exploration expenses in the next tax year.
- Property acquired has to be available for use before a claim for an ITC can be made. See subsections 127(11.2) and 248(19) for more information.
- Expenditures for SR&ED and capital costs for a property qualifying for an ITC must be identified by the claimant on Form T661 and Schedule 31 no later than 12 months after the claimant's income tax return is due for the tax year in which it incurred the expenditures or capital costs.
- Partnership allocations Subsection 127(8) provides for the allocation of the amount that may reasonably be considered to be a partner's share of the
  ITCs of the partnership at the end of the fiscal period of the partnership. An allocation of ITCs is generally considered to be the partner's reasonable
  share of the ITCs if it is made in the same proportion in which the partners have agreed to share any income or loss and if section 103 is not
  applicable for the agreement to share any income or loss. Special rules apply to specified and limited partners. For more information, see
  Guide T4068, Guide for the Partnership Information Return.
- For SR&ED expenditures, the expression in Canada includes the "exclusive economic zone" (as defined in the Oceans Act to generally consist of an area that is within 200 nautical miles from the Canadian coastline), including the airspace, seabed and subsoil for that zone.
- For the purpose of this schedule, the expression Atlantic Canada includes the Gaspé Peninsula and the provinces of Newfoundland and Labrador, Prince Edward Island, Nova Scotia, and New Brunswick, as well as their respective offshore regions (prescribed in Regulation 4609).
- For the purpose of this schedule, **qualified property** means property in Atlantic Canada that is used primarily for manufacturing and processing, farming or fishing, logging, storing grain, or harvesting peat. Property in Atlantic Canada that is used primarily for oil and gas, and mining activities is considered qualified property only if acquired by the taxpayer **before** March 29, 2012. Qualified property includes new buildings and new machinery and equipment (prescribed in Regulation 4600), and if acquired by the taxpayer **after** March 28, 2012, new energy generation and conservation property (prescribed in Regulation 4600). Qualified property can also be used primarily to produce or process electrical energy or steam in a prescribed area (as described in Regulation 4610). See the definition of **qualified property** in subsection 127(9) of the Act for more information.
- For the purpose of this schedule, **qualified resource property** means property in Atlantic Canada that is used primarily for oil and gas, and mining activities, if acquired by the taxpayer **after** March 28, 2012, and **before** January 1, 2016. Qualified resource property includes new buildings and new machinery and equipment (prescribed in Regulation 4600). See the definition of **qualified resource property** in subsection 127(9) of the Act for more information.

#### Detailed information (continued) -

- For the purpose of this schedule, **pre-production mining exploration expenditures** are pre-production mining expenditures incurred **after** March 28, 2012, by the taxpayer to determine the existence, location, extent, or quality of certain mineral resources in Canada, excluding expenses incurred in the exploration of an oil or gas well. See subparagraph (a)(i) of the definition of **pre-production mining expenditure** in subsection 127(9) for more information.
- For the purpose of this schedule, **pre-production mining development expenditures** are pre-production mining expenditures incurred **after** March 28, 2012, by the taxpayer to bring a new mineral resource mine in Canada into production, excluding expenses in the development of a bituminous sands deposit or an oil shale deposit. See subparagraph (a)(ii) of the definition of **pre-production mining expenditure** in subsection 127(9) for more information.

Dert 4 Investments even ditures and seven terms	R
Part 1 – Investments, expenditures, and percentages	<sup>(</sup> )
Investments	Specified percentage
Qualified property acquired primarily for use in Atlantic Canada	∛ percentage
Qualified resource property acquired primarily for use in Atlantic Canada and acquired:	10 /0
- after March 28, 2012, and before 2014	10 %
- after 2013 and before 2016	5 %
- after 2015*	0%
	070
Expenditures	
If you are a Canadian-controlled private corporation (CCPC), this percentage may apply to the portion that you claim of the SR&ED qualified expenditure pool that does not exceed your expenditure limit (see Part 10)	35 %
Note: If your current year's qualified expenditures are more than the corporation's expenditure limit (see Part 10), the excess is eligible for an ITC calculated at the 20 % rate**.	
If you are a corporation that is not a CCPC and have incurred qualified expenditures for SR&ED in any area in Canada:	
- before 2014**	20 %
- after 2013**	15 %
If you are a taxable Canadian corporation that incurred pre-production mining expenditures before March 29, 2012	10 %
If you are a taxable Canadian corporation that incurred pre-production mining exploration expenditures***:	
	10 %
- after 2013***	0 %
If you are a taxable Canadian corporation that incurred pre-production mining development expenditures****:	
- after March 28, 2012, and before 2014****	10 %
– in 2014	7 %
– in 2015	4 %
– after 2015****	0%
If you paid salary and wages to apprentices in the first 24 months of their apprenticeship contract for employment	10 %
If you incurred eligible expenditures after March 18, 2007, for the creation of licensed child care spaces for the	
children of your employees and, potentially, for other children	25 %
* A transitional relief rate of 10% may apply to property acquired after 2013 and before 2017, if the property is acquired under a written as into before March 29, 2012, or the property is acquired as part of a <b>phase</b> of a project where the construction or the engineering and d construction started before March 29, 2012. See paragraph (a.1) of the definition of <b>specified percentage</b> in subsection 127(9) for more than the term of term of the term of the term of terms of term of term of terms of	esign work for the
** The reduction of the rate from 20% to 15% applies to 2014 and later tax years, except that, for 2014 tax years that start before 2014, th pro-rated based on the number of days in the tax year that are after 2013.	ne reduction is
*** Pre-production mining exploration expenditures are described in subparagraph (a)(i) of the definition of pre-production mining expension subsection 127(9).	nditure in
**** A transitional relief rate of 10% may apply to expenditures incurred after 2013 and before 2016, if the expenditure is incurred under a wagreement entered into before March 29, 2012, or the expenditure is incurred as part of the development of a new mine where the conserving and design work for the construction of the new mine started before March 29, 2012. See subparagraph (k)(ii) of the definition of the new mine information. Pre-production mining development expenditures are described in subparagraph (a)(ii) of the definition of <b>pre-production mining expenditure</b> in subsection 127(9).	struction or the

				05172 52101100	.001				
Corporation's name			Business number	Tax year-end Year Month Day					
Oshawa PUC Network	s Inc.		89172 5210 RC0001	2013-12-31					
– Part 2 – Determina	tion of a qualifying corporation ———								
Is the corporation a qualifying	ng corporation?			1 Yes 2 No X					
taxable income (before any corporation is associated w	able ITC, a <b>qualifying corporation</b> is defined under s loss carrybacks) for its previous tax year cannot be mo ith any other corporations during the tax year, the total o ss carrybacks), for their last tax year ending in the previ	re than its <b>qualifying inco</b> of the taxable incomes of the	<b>me limit</b> for the particular tax e corporation and the associat	year. If the ed					
Note: A CCPC calculating a refundable ITC is considered to be associated with another corporation if it meets any of the conditions in subsection 256(1), except where:									
stock of both	on is associated with another corporation solely becaus corporations; and porations has at least one shareholder who is not comm		shares of the capital	V 7					
If you are a <b>qualifying</b> corp for SR&ED, up to the alloca They are only eligible for the	poration, you will earn a <b>100%</b> refund on your share of a ted expenditure limit. The 100% refund does not apply e <b>40%</b> refund*.	ny ITCs earned at the 35% to qualified <b>capital</b> expend	rate on qualified current expe itures eligible for the 35% cred	enditures Jit rate.					
current expenditures for S	<b>qualifying</b> corporations may also earn a <b>100%</b> refund a R&ED, up to the allocated expenditure limit. The expen capital expenditures eligible for the 35% credit rate. The	diture limit can be determin	ed in Part 10. The 100% refun						
	e available to a corporation that is an <b>excluded corpor</b> any time during the year, it is a corporation that is either								
, ,	empt from Part I tax under section 149;		-						
	province, a Canadian municipality, or any other public	authority; or							
	sons referred to in a) or b) above.								
	Irred after December 31, 2013, including lease paymen ot qualified SR&ED expenditures and are <b>not</b> eligible f			e if					
Part 3 – Corporatio	ons in the farming industry								
Complete this area if the co	rporation is making SR&ED contributions.								
	a contribution in the current year to an agricultural organ &ED work (for example, check-off dues)?	nization	<b>102</b>	1 Yes 2 No X					
Contributions to agricultura	lorganizations for SR&ED*		103						
If <b>yes</b> , complete Schedule on Schedule 125, see Guid	125, Income Statement Information, to identify the type e RC4088, General Index of Financial Information (GIF	of farming industry the corp 7). Enter contributions on li	poration is involved in. For mor ne 350 of Part 8.	e information					
* Enter only contributions r made after 2012.	not already included on Form T661. Include all of the co	ntributions made before 20	13 and 80% of the contribution	าร					
	Qualified Property and Q	ualified Resource F	Property						
⊢ Part 4 – Eligible in	vestments for qualified property and qu			nt tax year ——					
CCA* class	Description of investment	Date available	Location used	Amount of	]				
number		for use	(province or territory)	investment					
105	110	115	120	125					
					]				
* CCA: capital cost a	Total of investments fo	r qualified property and c	ualified resource property		A				

Part 5 – Current-year cr and qualified re	edit and account bala esource property	nces – IIC from	investments in q	qualified propert	у ———	
ITC at the end of the previous tax y	/ear					В
Deduct:						
Credit deemed as a remittance of o	co-op corporations					
Credit expired						
		Subtotal (line	210 <b>plus</b> line 215)			C
ITC at the beginning of the tax yea	r (amount B <b>minus</b> amount C)				<b>220</b>	
Add:	(,					
Credit transferred on amalgamatio	on or wind-up of subsidiary			(	Ň	
ITC from repayment of assistance				A	SY.	
Qualified property; and qualified re	sourceproperty				Y	
acquired after March 28, 2012, and	d before					
January 1, 2014* (applicable part of from Part 4)	••••••••••••••••••••••••••••••••••••••	x	10 % = <b>240</b>	$\longrightarrow$		
Qualified resource property acquir						
December 31, 2013, and before Ja (applicable part of amount A from	anuary 1, 2016 Part 4)	х	5 % = <b>242</b>			
Credit allocated from a partnership						
Credit anocated norma partnership	'				•	-
			of lines 230 to 250)	Ð		D
Total credit available (line 220 plus	s amount D)		· · · · · · · · · · · · · · · · · · ·		· · · · ·	E
Deduct:			260			
Credit deducted from Part I tax (er			·			
Credit carried back to the previous	; year(s) (amount H from Part 6	6)	······»		а	
Credit transferred to offset Part VII	tax liability		( <mark>280</mark> _			
	Subtota	l (total of line 260, amo	unt a, and line 280)		►	F
Credit balance before refund (amo	ount E <b>minus</b> amount F)		))		· · · · ·	G
Deduct:		$\sim$	, ,			
Refund of credit claimed on invest	ments from qualified property a	and qualified resource	property (from Part 7)		310	
ITC closing balance of investme	ents from qualified property	and qualified resour	<b>ce property</b> (amount G	6 <b>minus</b> line 310)	320	
* Include investments acquired af	ter 2013 and before 2017 that a	are eligible for transitio	nal relief.			
		<u>.</u>				
Part 6 – Request for car	ryback of credit from	investments in o	qualified property	y and qualified r	esource propert	ty ——
	Year Month Day					
1st previous tax year		1			901 902	
2nd previous tax year 3rd previous tax year		1		••	903	
				(enter at amount a in P		Н
Dout 7 Defined of ITO (		lono en intereter	onto from another	ad property		
Part 7 – Refund of ITC f and qualified re	esource property	tions on investm	ients from qualifi	led property —		
Current-year ITCs (total of lines 24	10, 242) and 250 from Part 5)				· · · · ·	I
Credit balance before refund (amo	ount G from Part 5) .					J
	or J, whichever is less)					к
	· · · ·		TO methoday 16 45 -	*****		K
Enter amount K or a lesser amour	it on line 310 in Part 5 (also en	ter it on line 780 of the	i ∠ return if the corpora	uon does not claim an	SR&ED ITC refund).	

Current expenditures       198,427         Add:	─ Part 8 – Qualified SR&ED expenditures ─────	
Add:		
Contributions to agricultural organizations for SREED'       198,427       \$ 350       198,427         Current expenditures (line 557 on Form T661 plus line 103 from Part 3)*       198,427       \$ 350       41,065         Capital expenditures (line 558 on Form T661)**       350       41,065         Qualified SR&ED expenditures (total of lines 350 to 370)       350       239,492         * 1 Fyou are claiming only contributions made to agricultural organizations for SR&ED, line 350 should equal line 103 in Part 3. D6 on File Form T661.       ***         ** Capital expenditures incurred after December 31, 2013, are not qualified SR&ED expenditures.       Part 9 - Components of the SR&ED expenditure limit calculation         Part 9 - Components of the SR&ED expenditure limit is considered to be associated with another corporation in subsection 256(1), except where:       •         • One orparation is associated with another corporation is absection 256(1), except where:       •       0 and 396 fyou answered no to the queestion at line 385 above or the corporation       \$ 210 C         Complete lines 300 and 396 fyou answered no to the queestion at line 385 above or the corparation is associated with another corporation is associated with another corporation is 300 is less than 51 veeks, multiply the twable income by the following result: 3805 divided by the number       \$ 390         • the corporation is accepted to a line 390 is less than 51 veeks, multiply the twable income by the following result: 3805 divided by the number       \$ 8,000,0000         Part 10 - SR&ED		
Repayments made in the year (from line 560 on Form T61)       370         Qualified SR&ED expenditures (total of lines 350 to 370)       850       239,492         * If you are claiming only contributions made to agricultural organizations for SR&ED expenditures.       Part 9 - Components of the SR&ED expenditure limit calculation         Part 9 - Components of the SR&ED expenditure limit is considered to be associated with another corporation if a SCPC.       Note: A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation if a second where: <ul> <li>one of the corporation is a sociated with another corporation second where:                 <ul> <li>one of the corporation is a sociated with another corporation is associated with another corporations.</li> <li>is the corporation associated with another corporation associated with another corporations.</li> <li>is the corporation associated with another CCPC for the purpose of calculating the SR&amp;ED expenditure limit?</li> <li>393</li> <li>1 Ves X</li> <li>2 No</li> <li>Complete lines 390 and 398 if you answered no to the question at line 385 above or if the corporation is associated with another CCPC for the purpose of calculating the SR&amp;ED expenditure limit?</li></ul></li></ul>	Contributions to agricultural organizations for SR&ED*	27
Qualified SR&ED expenditures (total of lines 350 to 370)       300       239,492         * If you are claiming only contributions made to agricultural organizations for SR&ED. Line 350 should equal line 103 in Part 3. Denothiler Form T661.       ** Capital expenditures incurred after December 31, 2013, are not qualified SR&ED expenditures.         Part 9 - Components of the SR&ED expenditure limit calculation	Capital expenditures incurred <b>before</b> 2014 (from line 558 on Form T661)**	5
Hyou are claiming only contributions made to agricultural organizations for SR&ED. Line 350 should equal line 103 in Part 3. Denotifie Form T661.     ** Capital expenditures incurred after December 31, 2013, are not qualified SR&ED expenditures.  Part 9 - Components of the SR&ED expenditure limit calculation Part 9 only applies if the corporation is a SCPC. Note: A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation and subjection 25(1), acceptiveners.  one corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the corporation associated with another CCPC for the purpose of calculating the SR&ED expenditure limit?  Complete lines 300 and 398 if you answered no to the question at line 385 above or if the corporation is associated with another CCPC for the purpose of calculating the SR&ED expenditure limit?  Complete lines 300 and 398 if you answered no to the question at line 385 above or if the corporation is anounts for associated oxporations will be determined on Schedule 49.  Enter your taxable income for the previous tax year (prior to any loss carry-backs applied)  For a stand-atione corporation:  S = 8,0000,000  Part 10 - SR&ED expenditure limit for a CCPC For a stand-atione corporation:  S = 8,0000,000  Part 10 - SR&ED expenditure limit for a CCPC For a stand-atione corporation:  S = 8,0000,000 minus ine 398 from Part 9,0 r \$500,000, whichever is more  A = 10 =	Repayments made in the year (from line 560 on Form T661)	_
	Qualified SR&ED expenditures (total of lines 350 to 370)         239,49	2
Part 9 - Components of the SR&ED expenditure limit calculation         Part 9 only applies if the corporation is a CCPC.         Note: A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation. if the corporation is accord to a social associated with another corporation. and         • one of the corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the corporation, and         • one of the corporation is associated with another CCPC for the purpose of calculating the SR&ED expenditure limit?       335       1 Yes X       2 No         Complete lines 390 and 398 if you answered no to the question at line 395 above or if the corporation is associated with any other corporations (the amounts for associated orporation swill be determined on Schedule 49).       330         Enter your taxable income for the previous tax year (prior to any loss carry-backs applied)       333         Enter your taxable income for the previous tax year (prior to any loss carry-backs applied)       333         If this amount is nil or negative, enter '0'.       1939         *       I element of the tax years.       10         Part 10 - SR&ED expenditure limit for a CCPC       \$         For a stand-alone corporation:       \$       8,000,000         Deduct:       \$       8,000,000       \$         Taxable income for the previous tax year (line 390 from Part 9) or \$500,000, whichever is more       \$       10	* If you are claiming only contributions made to agricultural organizations for SR&ED, line 350 should equal line 103 in Part 3. Do not file Form T661.	
Part 9 only applies if the corporation is a CCPC.         Note: A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation if it meets any of the conditions in subsection 250(1), except where:         • one of the corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the corporation; and         • one of the corporation is associated with another CCPC for the purpose of calculating the SR&ED expenditure limit.       385       1 Yes X       2 No         Complete lines 300 and 398 fyou answered no to the question at line 385 above or if the corporations in associated with any other corporations (the amounts for associated corporation shold so carporation shold so carporation shold experiments 310 million. If this amounts in lor negative, enter '0'.       390         Enter your taxable capital employed in Canada for the previous tax year "(prior to any loss carry-backs applied)       393         * If either of the tax years referred to at line 390 is less than 51 weeks, multiply the taxable income by the following result: 365 divided by the number of days in these tax years.       393         Part 10 - SR&ED expenditure limit for a CCPC       \$       8,000,000         For a stand-alone corporation:       \$       8,000,000         Taxable income for the previous tax year (line 390 from Part 9) or \$\$00,000, whichever is more       x       10 =       A         Excess (\$8,000,000 minus amount A; if negative, enter '0'.       a       A       A       B       40,0	** Capital expenditures incurred after December 31, 2013, are not qualified SR&ED expenditures.	
Part 9 only applies if the corporation is a CCPC.         Note: A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation if it meets any of the conditions in subsection 250(1), except where:         • one of the corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the corporation; and         • one of the corporation is associated with another CCPC for the purpose of calculating the SR&ED expenditure limit.       385       1 Yes X       2 No         Complete lines 300 and 398 fyou answered no to the question at line 385 above or if the corporations in associated with any other corporations (the amounts for associated corporation shold so carporation shold so carporation shold experiments 310 million. If this amounts in lor negative, enter '0'.       390         Enter your taxable capital employed in Canada for the previous tax year "(prior to any loss carry-backs applied)       393         * If either of the tax years referred to at line 390 is less than 51 weeks, multiply the taxable income by the following result: 365 divided by the number of days in these tax years.       393         Part 10 - SR&ED expenditure limit for a CCPC       \$       8,000,000         For a stand-alone corporation:       \$       8,000,000         Taxable income for the previous tax year (line 390 from Part 9) or \$\$00,000, whichever is more       x       10 =       A         Excess (\$8,000,000 minus amount A; if negative, enter '0'.       a       A       A       B       40,0	Part 9 – Components of the SR&ED expenditure limit calculation	
Note:       A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation 30 if the conditions in subsection 256(1), except where:              • one corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the corporations, and              • one of the corporation is associated with another CCPC for the purpose of calculating the SR&ED expenditure limit?              335             1 Yes X             2 No              Complete lines 390 and 398 if you answered no to the question at line 385 above or if the corporation is not associated with any other corporations (the amounts for associated corporations will be determined on Schedule 49).              330             1 Yes X             2 No              2 No              330             1 Yes X             2 No              330             1 Yes X             2 No              330             1 Yes X             2 No              1 No = Not sole associated with another corporation sole associated corporation sup associated corporation sup associated co		
<ul> <li>one corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the corporations and one of the corporations has at least one shareholder who is not common to both corporations.</li> <li>Is the corporation associated with another CCPC for the purpose of calculating the SR&amp;ED expenditure limit?</li> <li>Ste corporation associated with another CCPC for the purpose of calculating the SR&amp;ED expenditure limit?</li> <li>Ste corporations (the amounts for associated corporations will be determined on Schedule 49).</li> <li>Enter your taxable income for the previous tax year (prior to any loss carry-backs applied)</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If this amount is not no engative, enter "0".</li> <li>If a stand-alone corporation:</li> <li>Stand-alone corporation:</li> <li>Stand-alone corporation:</li> <li>Stand-alone corporation:</li> <li>Stand-alone corporation:</li> <li>Stand-alone corporation:</li> <li>Amount a twided by 40,000,000</li> <li>Minus line 398 from Part 9) or \$500,000, whichever is more</li> <li>X 10 =</li></ul>	Note: A CCPC that calculates an SR&ED expenditure limit is considered to be associated with another corporation if it meets any of the conditions in	
Is the corporation associated with another CCPC for the purpose of calculating the SR&ED expenditure limit?	• one corporation is associated with another corporation solely because one or more persons own shares of the capital stock of the	
Complete lines 390 and 398 if you answered <b>no</b> to the question at line 385 above or if the corporation is not associated with any other corporations (the amounts for associated corporations will be determined on Schedule 49). Enter your taxable income for the previous tax year* (prior to any loss carry-backs applied) Enter your taxable capital employed in Canada for the previous tax year minus \$10 million, if this amount is nil or negative, enter "0". If this amount is over \$40 million, enter \$40 million, enter \$40 million * If either of the tax years referred to at line 390 is less than 51 weeks, <b>multiply</b> the taxable income by the following result: 365 divided by the number of days in these tax years.  Part 10 - SR&ED expenditure limit for a CCPC For a stand-alone corporation:		
with any other corporations (the amounts for associated corporations will be determined on Schedule 49).   Enter your taxable income for the previous tax year "(prior to any loss carry-backs applied)   Enter your taxable capital employed in Canada for the previous tax year minus \$10 million. If this amount is one 740 million   If either of the tax years referred to at line 390 is less than 51 weeks, multiply the taxable income by the following result: 365 divided by the number of days in these tax years.   Part 10 - SR&ED expenditure limit for a CCPC   For a stand-alone corporation:   \$ 8,000,000   Deduct:   Taxable income for the previous tax year "(ine 390 from Part 9) or \$500,000, whichever is more   \$ 10 =   A cocess (\$8,000,000 minus amount A; if negative, enter "0", if negative, enter "0", if associated corporation:   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000, whichever is more   \$ 40,000,000 minus line 398 from Part 9, or \$500,000,000   C   Expenditure limit for the stand-alone corporation (amount B multiplied by amount C)   For an associated corporation:   If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49	Is the corporation associated with another CCPC for the purpose of calculating the SR&ED expenditure limit?	
Enter your taxable capital employed in Canada for the previous tax year minus \$10 million. If this amount is nil or negative, enter "0". If this amount is over \$40 million, enter \$40 million * If either of the tax years referred to at line 390 is less than 51 weeks, multiply the taxable income by the following result: 365 divided by the number of days in these tax years. Part 10 – SR&ED expenditure limit for a CCPC For a stand-alone corporation: * 8,000,000 Deduct: Taxable income for the previous tax year (line 390 from Part 9) or \$500,000, whichever is more * 10 =A Excess (\$8,000,000 minus amount A; if negative, enter "0") * 40,000,000 minus line 398 from Part 9 * 40,000,000 minus amount A; if negative, enter "0" * 40,000,000 minus amou		
Inition \$10 million. If this amount is nil or negative, enter "0".       395         * If either of the tax years referred to at line 390 is less than 51 weeks, multiply the taxable income by the following result: 365 divided by the number of days in these tax years.       Set in these tax years.         Part 10 - SR&ED expenditure limit for a CCPC       \$ 8,000,000         For a stand-alone corporation:       \$ 8,000,000         Deduct:       X 10 =         Taxable income for the previous tax year (line 390 from Part 9) or \$500,000, whichever is more       X 10 =         A Excess (\$8,000,000 minus amount A; if negative, enter "0".       B         \$ 40,000,000 minus line 398 from Part 9       A         Amount a divided by \$ 40,000,000       C         Expediture limit for the stand-alone corporation (amount B multiplied by amount C)       D*         For an associated corporation:       #00         If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49       #00         K Mount D or E       X Number of days in the tax year       365	Enter your taxable income for the previous tax year* (prior to any loss carry-backs applied)	
of days in these tax years.         Part 10 - SR&ED expenditure limit for a CCPC         For a stand-alone corporation:       \$	minus \$10 million. If this amount is nil or negative, enter "0".	
For a stand-alone corporation:       \$ 8,000,000         Deduct:       Taxable income for the previous tax year (line 390 from Part 9) or \$500,000, whichever is more       x 10 =A         Excess (\$8,000,000 minus amount A; if negative, enter "0")       B         \$ 40,000,000 minus amount A; if negative, enter "0")       a         Amount a divided by \$ 40,000,000       a         Expenditure limit for the stand-alone corporation (amount B multiplied by amount C)       D*         For an associated corporation:       If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49       400         Where the tax year of the corporation is less than 51 weeks, calculate the amount of the expenditure limit as follows:       Amount D or E       X Number of days in the tax year       365 =		
For a stand-alone corporation:       \$ 8,000,000         Deduct:       Taxable income for the previous tax year (line 390 from Part 9) or \$500,000, whichever is more       x 10 =A         Excess (\$8,000,000 minus amount A; if negative, enter "0")       B         \$ 40,000,000 minus amount A; if negative, enter "0")       a         Amount a divided by \$ 40,000,000       a         Expenditure limit for the stand-alone corporation (amount B multiplied by amount C)       D*         For an associated corporation:       If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49       400         Where the tax year of the corporation is less than 51 weeks, calculate the amount of the expenditure limit as follows:       Amount D or E       X Number of days in the tax year       365 =	- Part 10 – SR&ED expenditure limit for a CCPC	
Taxable income for the previous tax year (line 390 from Part 9) or \$500,000, whichever is more       x       10       =       A         Excess (\$8,000,000 minus amount A; if negative, enter "0"		0
Excess (\$8,000,000 minus amount A; if negative, enter "0")		A
Amount a divided by \$ 40,000,000		В
Expenditure limit for the stand-alone corporation (amount B multiplied by amount C)       D*         For an associated corporation:       If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49       400       E*         Where the tax year of the corporation is less than 51 weeks, calculate the amount of the expenditure limit as follows:       Amount D or E       365       S	\$ 40,000,000 minus line 398 from Part 9	
For an associated corporation:       If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49       400       E*         Where the tax year of the corporation is less than 51 weeks, calculate the amount of the expenditure limit as follows:       Amount D or E       X       Number of days in the tax year       365       =       F	Amount a <b>divided</b> by \$ 40,000,000	C
If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49	Expenditure limit for the stand-alone corporation (amount B multiplied by amount C)	D*
Where the tax year of the corporation is less than 51 weeks, calculate the amount of the expenditure limit as follows:         Amount D or E       x       Number of days in the tax year       365       365	For an associated corporation:	
Amount D or E Number of days in the tax year 365 = F	If associated, the allocation of the SR&ED expenditure limit as provided on Schedule 49	E*
	Where the tax year of the corporation is less than 51 weeks, calculate the amount of the expenditure limit as follows:	
Your SR&ED expenditure limit for the year (enter the amount from line D, E, or F, whichever applies)		_ F
	Your SR&ED expenditure limit for the year (enter the amount from line D, E, or F, whichever applies)	_
* Amount D or E cannot be more than \$3,000,000.	* Amount D or E cannot be more than \$3,000,000.	

Part 11 – Investment tax credits on S	R&ED expenditures					
Current expenditures (line 350 from Part 8) or the expenditure limit (line 410 from Part 10), whichever is less*			x	35 % =		G
Line 350 minus line 410 (if negative, enter "0")**		198,427	х	20 % =	39,685	Н
Line 410 minus line 350 (if negative, enter "0")	· · · · · · · · · · · · · · · · · · ·		b			
Capital expenditures (line 360 from Part 8) or amount whichever is less*	t b above, <b>440</b>		x	35 % =		I
Line 360 minus amount b above (if negative, enter "C	)")**	41,065	х	20 % =	8,213	J
Repayments (amount from line 370 in Part 8)				o KS		
If a corporation makes a repayment of any government or non-government assistance, or contract payments that reduced the amount of qualified expenditures for ITC purposes, the amount of the repayment is eligible for a credit at the rate that would have applied to the repaid amount. Enter the amount of the repayment on the line that corresponds to the appropriate rate.**	460       x         480       x         Subtotal (amount)	35 % = 20 % = t c <b>plus</b> amount d)				к
Current-year SR&ED ITC (total of amounts G to K;	enter on line 540 in Part 12)		. 🔊	§2	47,898	L
* For corporations that are not CCPCs, enter "0" for amounts G and I.						
** For tax years that end after 2013, the general SR& reduction is pro-rated based on the number of day		, except that, for 2014 ta	x years	that start before 2014, th	ne	
Part 12 – Current-year credit and acc	ount balances – ITC from S	SR&ED expenditu	res —			
ITC at the end of the previous tax year						М
Deduct:						
Credit deemed as a remittance of co-op corporations		<mark>510</mark>				
Credit expired		<u></u> 515				
	Subtotal (line 51	0 <b>plus</b> line 515)		►		N
ITC at the beginning of the tax year (amount M minu	s amount N)			520		
Add:						
Credit transferred on amalgamation or wind-up of sub	osidiary					
Total current-year credit (from amount L in Part 11)	· · · · · · · · · · · · · · · · · · ·			47,898		
Credit allocated from a partnership	······ <u>A.</u>					
	Subtotal (total of I	ines 530 to 550)		47,898	47,898	0
Total credit available (line 520 <b>plus</b> amount O)	·			· · · · · · · · · · · · · · · · · · ·	47,898	Ρ
Deduct:		560		47.000		
Credit deducted from Part I tax (enter at amount E in	))			47,898		
Credit carried back to the previous year(s) (amount S	Sfrom Part 13)			e		
Credit transferred to offset Part VII tax liability						
	Subtotal (total of line 560, amoun	t e, and line 580)		47,898	47,898	Q
Credit balance before refund (amount P minus amou	unt Q)			· · · · · · · · · · · · · · · · · · ·		R
Deduct:				610		
Refund of credit claimed on SR&ED expenditures (fr						
ITC closing balance on SR&ED (amount R minus	iineo10)					

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Part 13 – Request for c	carryback of credit from	SR&ED expenditures	
	Year Month Day		
1st previous tax year			
2nd previous tax year			
3rd previous tax year		<b>Total</b> (enter at amount e in Part 12)	s
─ Part 14 – Refund of ITC	C for qualifying corporat	tions – SR&ED	
Complete this part only if you are	a qualifying corporation as deterr	mined at line 101 in Part 2	
	rporation as defined under subse		οΧ
Current-year ITC (lines 540 plus	550 from Part 12 minus amount	t K from Part 11)	
Refundable credits (amount f abo	ove or amount R from Part 12, whi	nichever is less)*	т
Deduct:			
Amount T or amount G from Part	. 11, whichever is less	·····	U
Net amount (amount T minus an	nount U; if negative, enter "0")		V
Amount V multiplied by	40 %		W
Add:			
Amount U		······	X
· · ·	amount X – enter this, or a lesser Part 5 and 610 from Part 12 on line		Y
<ul> <li>If you are also an excluded corp as your refund of ITC for amout</li> </ul>	poration [as defined in subsection Int Y.	n 127.1(2)], this amount must be multiplied by 40%. Claim this, or a lesser amount,	
Part 15 – Refund of ITC	C for CCPCs that are not	t qualifying or excluded corporations – SR&ED	
Complete this box only if you are	a CCPC that is not a qualifying or	r excluded corporation as determined at line 101 in Part 2.	
Credit balance before refund (am	nount R from Part 12) .	·····	Z
Deduct:			
Amount Z or amount G from Part	. 11, whichever is less	······································	AA
Net amount (amount Z minus am	nount AA; if negative, enter "0")	·	BB
Amount BB or amount I from Part	t 11, whichever is less .		CC
Amount CC multiplied by	40 %		DD
Add :	á S	$\sum e^{-i\omega}$	
Amount AA	·····	·····	EE
<b>Refund of ITC</b> (amount DD <b>plus</b> Enter FF, or a lesser amount, on			FF
	- M		
	Y		
	V		

### Recapture - SR&ED

### Part 16 – Recapture of ITC for corporations and corporate partnerships – SR&ED

You will have a recapture of ITC in a year when **all** of the following conditions are met:

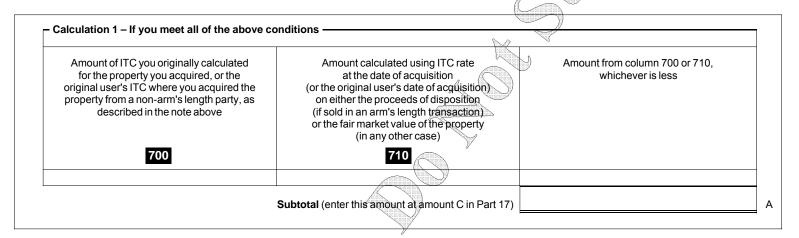
- you acquired a particular property in the current year or in any of the 20 previous tax years, if the credit was earned in a tax year ending after 1997 and did not expire before 2008;
- you claimed the cost of the property as a qualified expenditure for SR&ED on Form T661;
- the cost of the property was included in calculating your ITC or was the subject of an agreement made under subsection 127(13) to transfer qualified expenditures; and
- you disposed of the property or converted it to commercial use after February 23, 1998. This condition is also met if you disposed of or converted to commercial use a property that incorporates the particular property previously referred to.

#### Note:

The recapture **does not apply** if you disposed of the property to a non-arm's-length purchaser who intended to use it all or substantially all for SR&ED. When the non-arm's-length purchaser later sells or converts the property to commercial use, the recapture rules will apply to the purchaser based on the historical ITC rate of the original user.

You will report a recapture on the T2 return for the year in which you disposed of the property or converted it to commercial use. In the following tax year, add the amount of the ITC recapture to the SR&ED expenditure pool.

If you have more than one disposition for calculations 1 and 2, complete the columns for each disposition for which a recapture applies, using the calculation formats below.



В	с
Proceeds of disposition of the property if you dispose of it to an arm's length person; or, in any other case, enter the fair market value of the property at conversion or disposition	Amount, if any, already provided for in Calculation 1 (This allows for the situation where only part of the cost of a property is transferred under a subsection 127(13) agreement.)
730	740
E	F
ITC earned by the transferee for the qualified expenditures that were transferred	Amount from column D or E, whichever is less
	Proceeds of disposition of the property if you dispose of it to an arm's length person; or, in any other case, enter the fair market value of the property at conversion or disposition 730 section 127(13); otherwise, enter nil in amount B be E ITC earned by the transferee for the

- Calculation 3 As a member of the partnership, you will report your share amount of the recapture. If this amount is a positive amoun enough ITC otherwise available to offset the recapture, the determined and reported on line 760 below.	it, you will report it on line 550 in Part 12. Ho	owever, if the partnership does not have	
Corporate partner's share of the exe	cess of SR&ED ITC (amount to be reported	d at amount E in Part 17) 760	
Part 17 – Total recapture of SR&ED investme	nt tax credit ————		
Recaptured ITC for calculation 1 from amount A in Part 16		······	C
Recaptured ITC for calculation 2 from amount B in Part 16		·····	D
Recaptured ITC for calculation 3 from line 760 in Part 16		······	E
<b>Total recapture of SR&amp;ED investment tax credit</b> – total of am Enter amount F at amount A in Part 29.	iounts C to E		F

# **Pre-Production Mining**

Part 18 – Pre-production mining expenditures	
Exploration	information
A mineral resource that qualifies for the credit means a mineral deposit from which the deposit, or a mineral deposit from which the principal mineral to be extracted is an in	
In column 800, list all minerals for which pre-production mining expenditures have ta	ken place in the tax year.
For each of the minerals reported in column 800, identify each project (in column 80, where title is registered. If there is no mineral title, identify only the project and mining	
List of minerals	Project name
800	805
Mineral title	Mining division
806	807
Pre-production min	ning expenditures*
Exploration:	
Pre-production mining expenditures that the corporation incurred in the tax year for the existence, location, extent, or quality of a mineral resource in Canada:	he purpose of determining the
Prospecting	· · · · · · · · · · · · · · · · · · ·
Geological, geophysical, or geochemical surveys	
Drilling by rotary, diamond, percussion, or other methods	
Trenching, digging test pits, and preliminary sampling	
Development:	
Pre-production mining expenditures incurred in the tax year for bringing a new mine production in reasonable commercial quantities and incurred before the new mine co	in a mineral resource in Canada into omes into production in such quantities:
Clearing, removing overburden, and stripping	<u> </u>
Sinking a mine shaft, constructing an adit, or other underground entry	
Other pre-production mining expenditures incurred in the tax year	
Description 825	Amount 826
Adda	amounts in column 826
Total pre-production mining expenditures (total of lines 810 to 821 and amount A)	
Deduct:	
Total of all assistance (grants, subsidies, rebates, and forgivable loans) or reimburse received or is entitled to receive in respect of the amounts referred to at line 830 above	ements that the corporation has <b>832</b>
Excess (line 830 minus line 832) (if negative, enter "0")	В
Add: Repayments of government and non-government assistance	
Pre-production mining expenditures (amount B plus line 835)	с
* A pre-production mining expenditure is defined under subsection 127(9).	

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– Part 19 – Current-year cr	edit and account bala	inces – ITC from	n pre-production mir	ning expenditures	
ITC at the end of the previous tax yes	ar			· · · · · · · · · · · · · · · · · · ·	D
<b>Deduct:</b> Credit deemed as a remittance of co-	-op corporations				
Credit expired			845		
		Subtotal (line 841	<b>plus</b> line 845)	►	E
ITC at the beginning of the tax year (	(amount D <b>minus</b> amount E)				
Add:					
Credit transferred on amalgamation	or wind-up of subsidiary				y
Pre-production mining expenditures* incurred before January 1, 2013 (applicable part of amount C from Pa	<u></u>	x	10 % =	a	
Pre-production mining exploration expenditures incurred in 2013 (applicable part of amount C from Pa	art 18) <b>872</b>	x	5 % =		
Pre-production mining development expenditures incurred in 2014 (applicable part of amount C from Pa		×	7 % =		
Pre-production mining development expenditures incurred in 2015 (applicable part of amount C from Pa		x	4 % =	d	
		r credit (total of amour	uts a to d). 880	•	F
Total credit available (total of lines 8	-				'
Deduct:	50, 000, and amount (			· · · · · · · · · · · · · · · · · · ·	0
Credit deducted from Part I tax (enter	er at amount F in Part 30)		885		
Credit carried back to the previous y	ear(s) (amount I from Part 20)		~ ~	e	
	.,.,,	Subtotal (line 885)	plus amount e)	►	н
ITC closing balance from pre-pro	duction mining expenditure	$ \land \land$			
* Also include pre-production mining 2013 and before 2016 that are elig		ncurred before 2014 ar	nd pre-production mining dev	velopment expenditures i	ncurred after
– Part 20 – Request for car	rvback of credit from	pré-production	mining expenditure	s	
Γ	Year Month Day	4	5 1	-	
1st previous tax year		N	Credit	to be applied 921	
2nd previous tax year		R	Credit		
3rd previous tax year		<u> </u>	Credit Total (enter a	to be applied 923 at amount e in Part 19)	I
	A	pprenticeship J	ob Creation		
Part 21 – Total current-ye	ear credit – ITC from a	apprenticeship j	ob creation expendi	tures ———	
If you are a related person as defined employer who will be claiming the ap contract number (or social insurance	prenticeship job creation tax of	credit for this tax year f	or each apprentice whose		Yes X 2 No
For each apprentice in their first 24 n territory, under an apprenticeship pr there is no contract number, enter th	ogram designed to certify or lie	cense individuals in th	e trade. For the province, the		
	́Е	3	С	D	E
Contract number (SIN or name of apprentice	Name of eli		Eligible salary and wages*	Column C x 10 %	Lesser of column D or \$ 2,000
601	60	02	603	604	605
1. Tyler Duffin PC2664	Powerline Technicia	an	90,978	9,098	2,000

Α	В		С	D	E	1
Contract number	Name of eligibl	etrade	Eligible salary and	Column C x	Lesser of	
(SIN or name of apprentice)			wages*	10 %	column D or \$ 2,000	
601	602		603	604	605	
2. Anthony Bianca PE3554	Instrumentation and C	ontrol Techniciar	61,518	6,1	52 2,000	
		Total	current-year credit (ente	er at line 640 in Part 2	4,000	Δ
* Net of any other government or non-	povernment assistance received		current year orean (ent			1 / I
	- 				<u> </u>	
- Part 22 - Current-year cre	dit and account balanc	es – ITC from a	pprenticeship job	o creation expe	nditures ———	
ITC at the end of the previous tax year	· · · · · · · · · · · · · · · · · · ·			·····.dC	V	_ B
Deduct:			612		7	
Credit deemed as a remittance of co-c	p corporations			$\rightarrow$		
Credit expired after 20 tax years			<mark>615</mark>			
		Subtotal (line 61)	2 plus line 615)			С
ITC at the beginning of the tax year (a	mount B <b>minus</b> amount C)		······	<u>.</u>	25	-
Add:			630	The second se		
Credit transferred on amalgamation of	wind-up of subsidiary .		635			
ITC from repayment of assistance			640	4,000		
Total current-year credit (amount A fro			655	4,000		
Credit allocated from a partnership		Subtotal (total of li	~ <del>~                                    </del>	4,000 ►	4 000	_
		Subiotal (total of li	nes 03010 033)	4,000	4,000	
Total credit available (line 625 <b>plus</b> ar	nountD)		S		4,000	_ E
Deduct: Credit deducted from Part I tax (enter	at amount G in Part 30)		660	4,000		
Credit carried back to the previous yes		$\sim$		a		
		Subtotal (line 660	plus amount a)	4,000	4,000	F
ITC closing balance from apprentic	eship job creation expenditu			6	90	-
	A	A .				
- Part 23 - Request for carry	yback of credit from ap	prenticeship jo	b creation expen	ditures ———		
	Year Month Day	)			31	
1st previous tax year 2nd previous tax year		7			32	-
3rd previous tax year					33	-
			Total (enter	at amount a in Part 2		G
- 6						
X P A	Ţ.					

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# **Child Care Spaces**

- Pai	rt 24 – Eligible child c	are spaces expenditures ———			
		the corporation incurred to create licensed child ca			ntially, for
		not be carrying on a child care services business. (other than specified property); and	The eligible expenditures	include:	
	e specified child care start-up				
		new child care spaces at a licensed child care faci	lity.		
	2	erty from the current tax year	-5	0	<u>A</u>
	h	···· , ··· ··· ··· ··· ··· ··· ··· ···			
	CCA* class number	Description of investmen	t	Date available for use	Amount of investment
	665	675		685	695
1.					-
A al al .		Total cost o	f depreciable property from	m the current tax year 715	
Add: Speci	fied child care start-up expend	ditures from the current tax year		م 🔨 🚬 ۲۰۰۰ م	
Total	gross eligible expenditures fo	r child care spaces (line 715 <b>plus</b> line 705)		·	. А
Dedu					
Total	of all assistance (including gra	ants, subsidies, rebates, and forgivable loans) or r ed to receive in respect of the amounts referred to		× 	I
	ss (amount A <b>minus</b> line 725)	·		9	в.
Add:					5
	yments by the corporation of g	overnment and non-government assistance			
Total	eligible expenditures for cl	hild care spaces (amount B plus line 735)	·		
* CCA	: capital cost allowance				
- Pai	rt 25 – Current-vear ci	redit – ITC from child care spaces e	xpenditures ——		
	-	e child care spaces expenditures incurred to a ma	. *)/	ld care space created in a lic	censed child
care f	acility.				
Eligib	le expenditures (from line 745	)		x 25 % =	C
Numb	per of child care spaces		755	x	D
ITC fi	om child care spaces expe	nditures (amount C or D, whichever is less)			. Е
L		nditures (amount C or D, whichever is less)			
		A Y			
		Ĭ.			

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– Part 26 – Current-vear (	credit and account bala	nces – ITC from child care spaces expe		5210 RC0001
ITC at the end of the previous tax			nutures	F
Deduct:	year			'
Credit deemed as a remittance of	co-op corporations			
Credit expired after 20 tax years		770		
		Subtotal (line 765 <b>plus</b> line 770)	<b>&gt;</b>	G
	· · · · · · · · · · · · · · · · · · ·		775	0
ITC at the beginning of the tax yea	ar (amount F <b>minus</b> amount G)			
Add: Credit transferred on amalgamatic	on orwind up of subsidiary			
-				
Total current-year credit (amount				
Credit allocated from a partnership	ρ			
		Subtotal (total of lines 777 to 782)	₩	Н
Total credit available (line 775 <b>plu</b>	<b>s</b> amount H)	· · · · · · · · · · · · · · · · · · ·	x.Y	I
Deduct:			277	
Credit deducted from Part I tax (er	nter at amount H in Part 30)			
Credit carried back to the previous	s year(s) (amount K from Part 27	') <u> </u>	a	
		Subtotal (line 785 plus amount a)	▶	J
ITC closing balance from child	care spaces expenditures (ar	nount I <b>minus</b> amount J)	790	
<b>..</b>				
- Part 27 - Request for ca	arryback of credit from	child care space expenditures		
	Year Month Day	č i i i i i i i i i i i i i i i i i i i		
1st previous tax year	2012-12-31	Credit to be		
2nd previous tax year	2011-12-31	Credit to be		
3rd previous tax year	2010-12-31	Credit to be Total (enter at amo		к
		Ă, Č		
	Æ			
		$\mathbb{R}^{2}$		
	P) a			
	$\searrow$			
	WS_s			
0.	$(\mathcal{X})^{\nu}$			
A A	S			
/ A	Y			
	¥/			

### **Recapture – Child Care Spaces**

Part 28 – Recapture of ITC for corporations and corporate partnerships – Child care spaces ————	
The ITC will be recovered against the taxpayer's tax otherwise payable under Part I of the Act if, at any time within 60 months of the day on which the taxpayer acquired the property:	ıe
the new child care space is no longer available; or	
property that was an eligible expenditure for the child care space is:	
<ul> <li>disposed of or leased to a lessee; or</li> </ul>	
- converted to another use.	
If the property disposed of is a child care space, the amount that can reasonably be considered to have been included in the original ITC (paragraph 127(27.12)(a))	
In the case of eligible expenditures (paragraph 127(27.12)(b)), the lesser of:	
The amount that can reasonably be considered to have been included in the original ITC 795	
25% of either the proceeds of disposition (if sold in an arm's length transaction) or the fair market value (in any other case) of the property	
Amount from line 795 or line 797, whichever is less	A
Corporate partnerships	
As a member of the partnership, you will report your share of the child care spaces ITC of the partnership after the child care spaces ITC has been reduced by the amount of the recapture. If this amount is a positive amount, you will report it on line 782 in Part 26. However, if the partnership does not have enough ITC otherwise available to offset the recapture, then the amount by which reductions to ITC exceed additions (the excess) will be determined and reported on line 799 below.	
Total recapture of child care spaces investment tax credit (total of line 792, amount A, and line 799)	В
Summary of Investment Tax Credits	
Part 29 – Total recapture of investment tax credit	
Recaptured SR&ED ITC (from amount F in Part 17)	Α
Recaptured child care spaces ITC (from amount B in Part 28)	В
Total recapture of investment tax credit (amount A plus amount B)         Enter amount C on line 602 of the T2 return.	С
┌─Part 30 – Total ITC deducted from Part I tax-	
ITC from investments in qualified property deducted from Part I tax (from line 260 in Part 5)	D
ITC from SR&ED expenditures deducted from Part Ltax (from line 560 in Part 12)	47,898 E
ITC from pre-production mining expenditures deducted from Part I tax (from line 885 in Part 19)	F
ITC from apprenticeship job creation expenditures deducted from Part I tax (from line 660 in Part 22)	4,000 G
ITC from child care space expenditures deducted from Part I tax (from line 785 in Part 26)	Н
Total ITC deducted from Part I tax (total of amounts D to H)         Enter amount I at line 652 of the T2 return.	51,898 <sub>I</sub>
Privacy Act, Personal Information Bank r	umber CRA PPU 047

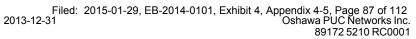
# Summary of Investment Tax Credit Carryovers

CCA class number97	_ Apprenticeship j	ob creation ITC			
Current year	Addition current year (A) 4,000	Applied current year (B) 4,000	Claimed as a refund (C)	Carried back (D)	ITC end of year (A-B-C-D)
Prior years	.,	.,,,,,,			Ŋ
Taxation year		ITC beginning of year (E)	Adjustments (F)	Applied current year (G)	ITC end of year (E-F-G)
2012-12-31			ζ, γ		
2011-12-31					
2010-12-31					
2009-12-31					
2008-12-31		· _			
2007-12-31		· _		~~~~ -	
2006-12-31			(L		
2005-12-31					
2004-12-31					
2003-12-31				)	
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2002-12-31			$\longrightarrow$		
2001-12-31	,	· _			
2001-09-30		·			
2000-09-30		·			
1999-09-30					
1998-09-30		(			
1997-09-30					
1996-09-30			)		
1995-09-30		Y	/		
1994-09-30		Y		- <u></u>	
	Total			·	
		A			1.00
S+C+D+G				Total ITC utilized	4,00
* The <b>ITC end of year</b> includes the ITC expired from the 20 <sup>th</sup> precedim subsequent fiscal period. Consequ of the subsequent fiscal year.	amount of ITC expired f g year if it is after Decen lently, this amount will b	rom the 10 <sup>th</sup> preceding yea ber 31, 1997, Note that the posted on line 215, 515,	is credit will only expire a	, 1998, or the amount of at the beginning of the	
		) v			
	amount of ITC expired fi g year if it is after Decem lently, this amount will b the second se				
	1				

CORPORATE TAXPREP / TAXPREP DES SOCIÉTÉS - EP21 VERSION 2014 V1.0

# Summary of Investment Tax Credit Carryovers

ion year ) 47,898  	Applied current year (B) 47,898 ITC beginning of year (E)	Claimed as a refund (C) Adjustments (F)	Carried back (D) Applied current year (G)	ITC end of year (A-B-C-D) ITC end of year (E-F-G)
	ITC beginning of year	-	current year	ofyear
	ofyear	-	current year	ofyear
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	<u>Y</u>			
Total				
	A			
			Total ITC utilized	47,89
f ITC expired from is after December amount will be	m the 10 <sup>th</sup> preceding yea er 31, 1997, Note that thi posted on line 215, 515, (	r if it is before January 1, is credit will only expire at 615, 770 or 845, as applic	the beginning of the	
$\bigcirc$	j v			
2				
	amount will be	amount will be posted on fine 215, 515,	amount will be posted on line 215, 515, 615, 770 or 845, as applications	is after December 31, 1997) Note that this credit will only expire at the beginning of the samount will be posted on line 215, 515, 615, 770 or 845, as applicable, in Schedule 31





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# **SCHEDULE 50**

# SHAREHOLDER INFORMATION

Name of corporation	Business Number	Tax year end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31
	· · · · ·	

All private corporations must complete this schedule for any shareholder who holds 10% or more of the corporation's common and/or preferred shares.

				$\sim$	1				
		Provide only one number per shareholder							
	Name of shareholder (after name, indicate in brackets if the shareholder is a corporation, partnership, individual, or trust)	Business Number (If a corporation is not registered, enter "NR")	Social insurance number	Trust number	Percentage common shares	Percentage preferred shares			
	100	200	300	350	400	500			
1	Oshawa Power and Utilities Corporation	86486 7593 RC0001	L L		100.000				
2			$ \searrow                                   $						
3				$\bigcirc$					
4									
5									
6			IX.						
7									
8		A							
9									
10		4							



Canada Revenue Agence du revenu du Canada

# **SCHEDULE 53**

# GENERAL RATE INCOME POOL (GRIP) CALCULATION

Name of corporation	Business Number	Tax year-end
Oshawa PUC Networks Inc.	90172 5210 DC0001	Year Month Day 2013-12-31
	89172 5210 RC0001	2013-12-31
On:2013-12-31		
<ul> <li>If you are a Canadian-controlled private corporation (CCPC) or a deposit insurance corporation (DIC), use income pool (GRIP).</li> </ul>	this schedule to determine the	general rate
• When an eligible dividend was paid in the tax year, file a completed copy of this schedule with your T2 Corp your worksheets with your return, but keep them in your records in case we ask to see them later.	poration Income Tax Return, D	onot send
• Subsections referred to in this schedule are from the Income Tax Act.		
• Subsection 89(1) defines the terms eligible dividend, excessive eligible dividend designation, general rate in	ncome pool, and low rate incom	ne pool.
Eligibility for the various additions		
Answer the following questions to determine the corporation's eligibility for the various additions:	<u>G</u>	
2006 addition	- D	
1. Is this the corporation's first taxation year that includes January 1, 2006?	• • • • <sup>3</sup> • • • • • • • • • • • • • • • • • • •	Yes X No
2. If not, what is the date of the taxation year end of the corporation's first year that includes January 1, 2006 Enter the date and go directly to question 4	<u>9</u>	2006-12-31
3. During that first year, was the corporation a CCPC or would it have been a CCPC if not for the election of subsection 89(11) ITA?		X Yes No
If the answer to question 3 is yes, complete Part "GRIP addition for 2006".		
Change in the type of corporation		
		X Yes No
5. Corporations that become a CCPC or a DIC		Yes 🗴 No
If the answer to question 5 is yes, complete Part 4.		
Amalgamation (first year of filing after amalgamation)		
6. Corporations that were formed as a result of an amalgamation		Yes X No
If the answer to question 6 is yes, answer questions 7 and 8. If the answer is no, go to question 9	).	
7. Was one or more of the predecessor corporations neither a CCPC nor a DIC? If the answer to question 7 is yes, complete Part 4.		Yes No
8. Was one or more of the predecessor corporation a CCPC or a DIC during the taxation year that ended implefore amalgamation?	mediately	Yes No
If the answer to question 8 is yes, complete Part 3.		
Winding-up		
		Yes X No
If the answer to question 9 is yes, answer questions 10 and 11. If the answer is no, go to Part 1.		
10. Was the subsidiary neither a CCPC nor a DIC during its last taxation year?		Yes No
11. Was the subsidiary a CCPC or a DIC during its last taxation year?		Yes No





$_{\!$			
GRIP at the end of the previous tax year			23,769,687 A
Taxable income for the year (DICs enter "0") *	110	923,482 B	
Income for the credit union deduction * (amount E in Part 3 of Schedule 17)			
Amount on line 400, 405, 410, or 425 of the T2 return, whichever is less *			
For a CCPC, the lesser of aggregate investment income (line 440 of the T2 return) and taxable income *			
Subtotal ( <b>add</b> lines 120, 130, and 140)	►	c	
Income taxable at the general corporate rate (line B minus line C) (if negative enter "0")	150	923,482	
After-tax income (line 150 x general rate factor for the tax year ** 0.72 ) .			664,907 D
Eligible dividends received in the tax year			
Dividends deductible under section 113 received in the tax year Subtotal (add lin			E
GRIP addition:			
Becoming a CCPC (line PP from Part 4)			
Post-amalgamation (total of lines EE from Part 3 and lines PP from Part 4) Post-wind-up (total of lines EE from Part 3 and lines PP from Part 4)			
Subtotal (add lines 22		▶ 290	F
	· 1000K	dd lines A, D, E, and F)	24,434,594 G
Eligible dividends paid in the previous tax year	20	1,700,000	
Excessive eligible dividend designations made in the previous tax year			
Note: If becoming a CCPC (subsection 89(4) applies), enter "0" on lines 300 and 310. Subtotal (line 300	minus line 310)	1,700,000 ►	1,700,000 H
GRIP before adjustment for specified future tax consequences (line G minus line H) (ar	mount can be negative)		22,734,594
Total GRIP adjustment for specified future tax consequences to previous tax years (an	ount W from Part 2)		
GRIP at the end of the tax year (line 490 minus line 560)	)		22,734,594
* For lines 110, 120, 130, and 140, the income amount is the amount before considerin subsection 248(1). It includes the deduction of a loss carryback from subsequent tax Canadian development expenses that were renounced in subsequent tax years (e.g., inclusions where an option is exercised in subsequent tax years, and the effect of cer	years, a reduction of Canad flow-through share renund	dian exploration expenses and iations), reversals of income	d in
** The <b>general rate factor</b> for a tax year is 0.68 for any portion of the tax year that falls that falls in 2010, 0.70 for any portion of the tax year that falls in 2011, and 0.72 for an Calculate the general rate factor in Part 5 for tax years that straddle these dates.			
Part 2 – GRIP adjustment for specified future tax consequence	as to providuo tox	10050	
Complete this part if the corporation's taxable income of any of the previous three tax ye defined in subsection 248(1) from the current tax year. Otherwise, enter "0" on line 560.	ars took into account the sp		
First previous tax year 2012-12-31			
Taxable income before specified future tax consequences			
Enter the following amounts before specified future tax	. <u>256,263</u> J1		
consequences from the current tax year Income for the credit union deduction			
(amount E in Part 3 of Schedule 17)			
Amount on line 400, 405, 410, or 425 of the T2 return, whichever is less L1			
Aggregate investment income (line 440 of the T2 return)			
Subtotal (add lines K1, µ1, and M1)	N1		
	256,263 ►	1,256,263_01	

# $_{\Box}$ Part 2 – GRIP adjustment for specified future tax consequences to previous tax years (continued) –

(t) (a) (TA)       Image: Construction of the			re tax consequences that nount carried back from the		•	
the following amounts after specified future tax consequences: a for the credit union deduction int cn line 400, 406, 410, or 425 Trateum, whichever is less Subtotal (line P1 minus line T1) (if negative, enter "0") Subtotal (line P1 minus line T1) (if negative, enter "0") Subtotal (line P1 minus line T1) (if negative, enter "0") Subtotal (line P1 minus line T1) (if negative, enter "0") Subtotal (line P1 minus line T1) (if negative, enter "0") Adjustment for specified future tax consequences to the first previous tax year (if nutlipiled by the general rate factor for the tax year (if nutlipiled by the general rate factor for the tax year (if nutlipiled by the general rate factor for the tax year 0.72) adjustment for specified future tax consequences from rentax year (in on line 400, 406, 410, or 425 T2 return, whichever is less Carry-back Carry-back (ine 42 minus line N2) (if negative, enter "0") Subtotal (line 52, L2, and M2) Subtotal (line 52, L2, and M2) P2 the following amounts after specified future tax consequences: a for the credit union deduction m1 En Part 3 of Schedule 17) return, whichever is less Restricted farm Farm loss Carry-back for the credit union deduction m1 En Part 3 of Schedule 17) return, whichever is less Restricted farm Sector for the current year Anount carries back from the current year to a prior year M2 M2 Subtotal (line 02, minus line U2) (if negative, enter "0") V2	carry-back (paragraph 111	•			Other	Total carrybacks
the following amounts after specified future tax consequences: e for the credit union deduction into a fine 40, 405, 410, or 425 T2 return, whichever is less subtotal (line P1 minus line T1) (if negative, enter '0') Subtotal (line P1 minus line T1) (if negative, enter '0') Subtotal (line P1 minus line T1) (if negative, enter '0') Subtotal (line P1 minus line T1) (if negative, enter '0') Subtotal (line P1 minus line T1) (if negative, enter '0') Subtotal (line P1 minus line T1) (if negative, enter '0') Subtotal (line P1 minus line T1) (if negative, enter '0') Adjustment for specified future tax consequences to the first previous tax year // multiplied by the general rate factor for the tax year 0.72) 						
te for the credit union deduction thron line 400, 405, 410, or 425 T2 return, whichever is less Subtotal (line P1 minus line 11) (if negative, enter "0") Subtotal (line P1 minus line 11) (if negative, enter "0") Subtotal (line P1 minus line 11) (if negative, enter "0") Subtotal (line P1 minus line 11) (if negative, enter "0") Subtotal (line 01 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 11) (if negative, enter "0") Subtotal (line 12 minus line 12) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line 12 minus line N2) (if negative, enter "0") Subtotal (line N2, R2 minus line T2) (if negative, enter "0") Subtotal (line N2, R2 minus line U2) (if negative, ent	•	•		P1		
Into line 400, 405, 410, or 425 Teretur, whichever is less Teretur, whichev	me for the credit union deducti	on				$\mathbb{N}$
gale investment income gale investment income Subtotal (add lines Q1, R1, and S1) Subtotal (line P1 minus line T1) (fi negative, enter "0") Subtotal (line Q1 minus line T1) (fi negative, enter "0") adjustment for specified future tax consequences to the first previous tax year /1 multiplied by the general rate factor for the tax year 0.72)	ount on line 400, 405, 410, or 4	25			4	S
add of the T2 return) S1   Subtotal (ladd lines Q1, R1, and S1) Image: S1   Subtotal (line P1 minus line T1) (if negative, enter "0") U1   Subtotal (line O1 minus line U1) (if negative, enter "0") V1   adjustment for specified future tax consequences to the first previous tax year /1 multiplied by the general rate factor for the tax year 0.72 )	e T2 return, whichever is less	····	R1			$\bigvee^{\nu}$
Subtotal (line P1 minus line T1) (if negative, enter "0") Subtotal (line O1 minus line U1) (if negative, enter "0") adjustment for specified future tax consequences to the first previous tax year (1 multiplied by the general rate factor for the tax year 0.72)	0	· · · · · · · <u> </u>	S1		XS)	
Subtail (line 01 minus line U1) (if negative, enter "0")       V1         adjustment for specified future tax consequences to the first previous tax year       0.72 )       500         nd previous tax year2011-12-31			▶	T1	AN.	
adjustment for specified future tax consequences to the first previous tax year       0.72 )       500         ind previous tax year       2011-12-31       500         beincome before specified future tax consequences from irrent tax year       6.818,171       500         ind previous tax year       2011-12-31       6.818,171       500         beincome before specified future tax consequences from irrent tax year       6.818,171       500         inte lin Part 3 of Schedule 17)       K2       6.818,171       6.818,171       02         Subtotal (line J2 minus line N2) (if negative, enter "0")       6.818,171       6.818,171       6.818,171       02         Non-capital loss       Capital loss       Restripted farm       Farm loss       Other       Total carry-back         i (j) (a) ITA)       Capital loss       Restripted farm       Farm loss       Other       Total carry-back         into line 400, 405, 410, or 425       Capital loss       Restripted farm       Farm loss       Other       Total carry-back         subtotal (line J2 minus line N2) (if negative, enter "0")       D2       02       Total carry-back       Carry-back         i (j) (a) ITA)       Carry-back       Capital loss       Restripted farm       Farm loss       Other       Total carry-back         i (j) (a) ITA)	Subtotal (line P1)	, , <b>.</b>	,	negative, enter "0")		
11 multiplied by the general rate factor for the tax year       0.72 )       500         nd previous tax year       2011-12-31	P adjustment for specified fi			<b>-</b> ,		
ble income before specified future tax consequences from internet ax year	•	•	•			. 500
ble income before specified future tax consequences from internet ax year	ond previous tax year 20	11-12-31		K	$\mathbb{N}$	
irrentax year			from			
squences from the current tax year: the for the credit union deduction and in the avent of Schedule 17) K2 type term, whichever is less M2 Subtotal (lines K2, L2, and M2) Subtotal (line J2 minus line N2) (if negative, enter "0") Future tax consequences that occur for the current year Amount carried back from the current year to a prior year Non-capital loss carry-back (paragraph 111 (1)(a) ITA) Dele income after specified future tax consequences: the for the credit union deduction ant E in Part 3 of Schedule 17) T2 return, whichever is less 22 Subtotal (ine 400, 405, 410, or 425 T2 return, whichever is less 23 Subtotal (ine 400, 405, 410, or 425 T2 return, whichever is less 24 Subtotal (ine 400, 405, 410, or 425 T2 return, whichever is less 24 Subtotal (add lines 92, R2, and 52) Subtotal (ine 02 minus line U2) (if negative, enter "0") Carry-back	current tax year			<u>6,818,171 32</u>		
unt E in Part 3 of Schedule 17)        K2         int on line 400, 405, 410, or 425        L2         gate investment income       M2         Subtotal (add lines K2, L2, and M2)       M2         Subtotal (line J2 minus line N2) (if negative, enter "0")       6,818,171         Mon-capital loss       Capital loss         carry-back       Capital loss         (paragraph 111       Carry-back         (1)(a) ITA)       Capital loss         carry-back       Restricted farm         Future tax consequences:       For the current year         oblic income after specified future tax consequences:       P2         the following amounts after specified future tax consequences:       P2         the following amounts after specified future tax consequences:       R2         gate investment income           V40 of the T2 return)           Subtotal (did lines Q2, R2, and S2)           Subtotal (ine Q2 minus line T2) (if negative, enter "0")       V2						
Int on line 400, 405, 410, or 425 T2 return, whichever is less L2 40 of the T2 return)			K2	- M		
gate investment income       M2         Subtotal (add lines K2, L2, and M2)       M2         Subtotal (line J2 minus line N2) (if negative, enter "0")       6,818,171         Future tax consequences that occur for the current year         Amount carried back from the current year to a prior year         Non-capital loss       Capital loss         carry-back       Capital loss         (paragraph 111       Capital loss         (paragraph 111       Carry-back         (paragraph 111       Capital loss         carry-back       Capital loss         carry-back       Capital loss         carry-back       Capital loss         (paragraph 111       Capital loss         (1)(a) ITA)       Capital loss         ble income after specified future tax consequences:       P2         the following amounts after specified future tax consequences:       P2         int E in Part 3 of Schedule 17)       Q2         int on line 400, 405, 410, or 425       R2         gate investment income       S2         Subtotal (add lines Q2, R2, and S2)       T2         Subtotal (line Q2 minus line T2) (if negative, enter "0")       V2	ount on line 400, 405, 410, or 4	25				
A0 of the T2 return)       M2         Subtotal (add lines K2, L2, and M2) <ul> <li>A (818,171)</li> <li>A (818,171)&lt;</li></ul>		· · · · ·	L2	N S		
Subtotal (line J2 minus line N2) (if negative, enter "0")       6,818,171       6,818,171       02         Future tax consequences that occur for the current year         Amount carried back from the current year to a prior year         Non-capital loss carry-back (paragraph 111 (1)(a) ITA)       Capital loss carry-back       Restricted farm loss carry-back       Farm loss carry-back       Other       Total carrybacks         bele income after specified future tax consequences the following amounts after specified future tax consequences: nef or the credit union deduction unt E in Part 3 of Schedule 17)       Q2 (Q2 (D2)       P2         Subtotal (add lines Q2, R2, and S2)       S2 (Subtotal (dine Q2 minus line T2) (if negative, enter "0")       T2 (V2)       V2	440 of the T2 return)		M2	J		
Subtract (integrative, enter 0)         Future tax consequences that occur for the current year         Amount carned back from the current year to a prior year         Non-capital loss carry-back       Capital loss carry-back       Restricted farm loss carry-back       Farm loss carry-back       Other       Total carrybacks         total (1)(a) ITA)       Capital loss carry-back       Restricted farm loss carry-back       Farm loss carry-back       Other       Total carrybacks         Dele income after specified future tax consequences: the following amounts after specified future tax consequences: the for the credit union deduction unt E in Part 3 of Schedule 17)       Q2         Into n line 400, 405, 410, or 425       R2       R2         gate investment income       S2       T2       U2         Subtotal (add lines Q2, R2, and S2)       S2       T2       U2         Subtotal (line P2 minus line T2) (if negative, enter "0")       V2       V2		,	ive enter "0")		6 818 171 c	12
Amount carried back from the current year to a prior year         Non-capital loss carry-back (paragraph 111 (1)(a) ITA)       Capital loss carry-back       Restricted farm loss carry-back       Farm loss carry-back       Other       Total carrybacks         ble income after specified future tax consequences	Subiolai (iine J2 I	minus line NZ) (il negat	ive, enter 0)		<u> </u>	<i>' L</i>
Non-capital loss carry-back (paragraph 111 (1)(a) ITA)       Capital loss carry-back       Restricted farm loss carry-back       Farm loss carry-back       Other       Total carrybacks         ble income after specified future tax consequences: the following amounts after specified future tax consequences: the for the credit union deduction unt E in Part 3 of Schedule 17)       P2         Int on line 400, 405, 410, or 425       Image: Capital loss carry-back       R2         Signation of the T2 return)       Image: Capital loss carry-back       R2         Subtotal (add lines 02, R2, and S2)       Image: Capital loss carry-back       T2         Subtotal (line 02 minus line U2) (if negative, enter "0")       V2		Futu	re tax consequences that	at occur for the current	year	
carry-back (paragraph 111 (1)(a) ITA)       Capital loss carry-back       Restricted farm loss carry-back       Farm loss carry-back       Other       Total carrybacks         oble income after specified future tax consequences: the following amounts after specified future tax consequences: the following amounts after specified future tax consequences: the for the credit union deduction unt E in Part 3 of Schedule 17)       Q2         Int on line 400, 405, 410, or 425       R2         gate investment income H40 of the T2 return)       S2         Subtotal (add lines Q2, R2, and S2)       T2         Subtotal (line P2 minus line T2) (if negative, enter "0")       U2         Subtotal (line O2 minus line U2) (if negative, enter "0")       V2		An	nount carried back from the	e current year to a prior y	ear	
the following amounts after specified future tax consequences: the for the credit union deduction unt E in Part 3 of Schedule 17) T2 return, whichever is less egate investment income 140 of the T2 return) Subtotal (add lines 02, R2, and S2) Subtotal (line P2 minus line T2) (if negative, enter "0") Subtotal (line O2 minus line U2) (if negative, enter "0") V2	carry-back (paragraph 111	•			Other	Total carrybacks
the following amounts after specified future tax consequences: the for the credit union deduction unt E in Part 3 of Schedule 17) T2 return, whichever is less egate investment income 140 of the T2 return) Subtotal (add lines 02, R2, and S2) Subtotal (line P2 minus line T2) (if negative, enter "0") Subtotal (line O2 minus line U2) (if negative, enter "0") V2			$\mathbb{P}$			
the following amounts after specified future tax consequences: the for the credit union deduction unt E in Part 3 of Schedule 17) T2 return, whichever is less egate investment income 140 of the T2 return) Subtotal (add lines 02, R2, and S2) Subtotal (line P2 minus line T2) (if negative, enter "0") Subtotal (line O2 minus line U2) (if negative, enter "0") V2			)			
ne for the credit union deduction unt E in Part 3 of Schedule 17)Q2 int on line 400, 405, 410, or 425	•	. ~		P2		
Int on line 400, 405, 410, or 425 T2 return, whichever is less gate investment income H40 of the T2 return)	me for the credit union deducti	on K				
T2 return, whichever is less    R2      egate investment income    S2      440 of the T2 return)    S2      Subtotal (add lines Q2, R2, and S2)    T2      Subtotal (line P2 minus line T2) (if negative, enter "0")    T2      Subtotal (line O2 minus line U2) (if negative, enter "0")    V2		1 DOWN	Q2			
Idd of the T2 return)         Subtotal (add lines 02, R2, and S2)       Idd of the T2 return)       T2         Subtotal (line P2 minus line T2) (if negative, enter "0")       Idd of the T2 return)       U2         Subtotal (line P2 minus line T2) (if negative, enter "0")       V2	e T2 return, whichever is less		R2			
Subtotal (add lines Q2, R2, and S2)  Subtotal (line P2 minus line T2) (if negative, enter "0")  Subtotal (line O2 minus line U2) (if negative, enter "0")  V2	<b>0</b>		S2			
Subtotal (line O2 minus line U2) (if negative, enter "0")     V2	Subtotal (add lines Q2, R2,	and S2)	▶	T2		
	Subtotal (line P2)	/	,			
					V	2
/2 multiplied by the general rate factor for the tax year 0.72 )						. 520

# - Part 2 – GRIP adjustment for specified future tax consequences to previous tax years (continued) -

	•	•	ature tax consequ	ences to previot	us lax years (continue	eu)
Third pre	vious tax year 2010	-12-31				
	ncome before specified fu			F 040 227 va		
	It tax year			5,948,336 J3		
	nces from the current tax					
	r the credit union deduction		140			
	E in Part 3 of Schedule 17 n line 400, 405, 410, or 43		K3			
of the T2	return, whichever is less		L3			
Aggregate	e investment income				(	
			M3			A Y
Su	btotal (add lines K3, L3, a	,	· · · · · · · · · · · · · · · · · · ·	N3 5,948,336 ►	F 040 224 a	$\searrow$
	Subtotal (line J3 r	minus line N3) (if nega	tive, enter "0")	5,940,330	5,948,336 03	V.
		<b>–</b> /				<u></u>
			ire tax consequences t			/
		Ar	nount carried back from t	he current year to a pri	ior year	
	Non-capital loss carry-back	Capital loss	Restricted farm	Farm loss		Total
	(paragraph 111	carry-back	loss carry-back	carry-back	Other	carrybacks
	(1)(a) ITA)	-	-			-
				1		
Taxable ir	ncome after specified futu	re tax consequences		P3		
Enter the	following amounts after s	pecified future tax cons	equences:	. 6		
	r the credit union deduction			$\sim$	Y	
	E in Part 3 of Schedule 17		Q3			
	n line 400, 405, 410, or 4 return, whichever is less		R3			
Aggregate	e investment income					
	of the T2 return)					
Su	btotal ( <b>add</b> lines Q3, R3,	and S3)	►	T3		
	Subtotal (line P3 i	<b>minus</b> line T3) (if nega	· /3	$\mathbf{h}$	U3	
		Subtotal	(line O3 <b>minus</b> line (U3) (	if negative, enter "0")	V3	
GRIP adj	ustment for specified fu	uture tax consequend			_	
(line V3 m	ultiplied by the general	rate factor for the tax ye	ear 0.72),			540
	IP adjustment for speci		quences to previous ta	x years:		
	500, 520, and 540) (if ne	egative, enter "0")	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • •		· · · · V
Enter amo	ount W on line 560.					
⊢ Part 3	- Worksheet to ca	alculate the GRIF	Paddition post-am	algamation or p	ost-wind-up	
	(predecessor or	r subsidiary was	a CCPC or a DIC i	n its last tax yea	ar)	
nb. 1	Postamalgamation	. Post wind-up		-	-	
	U	<i>6</i> 8	IIN NIII IZ	aned by subsection 87	7(1)) or a wind-up (to which su	bsection 88(1) applies)
and the pr	edecessor or subsidiary	corporation was a CCF	C or a DIC in its last tax y	ear. In the calculation	below, corporation means a	predecessor or a
					the amalgamation and for a su	ubsidiary corporation
	k year during which its as				at immediately follows the tax	waar during which it
	he assets of the subsidiar		ig the parent's GRIP at tr	ie end of its tax year th	at immediately follows the tax	year during which it
			each subsidiary that wa	s a CCPC or a DIC in i	its last tax year. Keep a copy	of this calculation for
your reco	rds, in case we ask to see	e it later.				
Corporati	on's GRIP at the end of its	s last tax year				A
Eligible di	vidends paid by the corpo	rațion in its last tax yea	r		BB	
-	eligible dividend designa				cc	
		V		e BB <b>minus</b> line CC)		► D
	lition post-amalgamatic	on or post-wind-up (p	•	,	DIC in its last tax year)	
	<b>ninus</b> line $DD$ )					
-			and each subsidiary, calc	ulate the total of all the	EE lines. Enter this total amo	unt on:
	line 230 for post-amalga					
· -	line 240 for post-wind-up	D.				

Oshawa PUC Networks Inc PIL Return.213	Filed: 2015-01-29, EB-2014-0101, E 2013-12-31	xhibit 4, Appendix 4-5, Page 92 of 112 Oshawa PUC Networks Inc. 89172 5210 RC0001
Part 4 – Worksheet to calculate the GRIP ad (predecessor or subsidiary was not or the corporation is becoming a Content	t a CCPC or a DIC in its last tax year),	
nb. 1 Corporation becoming a CCPC F	Postamalgamation Post wind-up	
	hin the meaning assigned by subsection 87(1)) or a wind-up (to w i ts last tax year. Also, use this part for a corporation becoming a cessor, or a subsidiary.	
For a post-wind-up, include the GRIP addition in calculating the it receives the assets of the subsidiary.	e parent's GRIP at the end of its tax year that immediately follows	the tax year during which
Complete a separate worksheet for <b>each</b> predecessor and <b>eac</b> calculation for your records, in case we ask to see it later.	h subsidiary that was not a CCPC or a DIC in its last tax year. Ke	eep a copy of this
Cost amount to the corporation of all property immediately befo	re the end of its previous/last tax year	FF
The corporation's money on hand immediately before the end o	of its previous/last tax year	
Unused and unexpired losses at the end of the corporation's pre	evious/last tax year:	
· ·		
Farm losses		
Restricted farm losses		
Limited partnership losses		
	Subtotat	_ ►HH
	Subtotal (add lines FF, G	G, and HH) II
All the corporation's debts and other obligations to pay that were outstanding immediately before the end of its previous/last tax y		JJ
Paid-up capital of all the corporation's issued and outstanding s	sharee	
of capital stock immediately before the end of its previous/last ta		КК
All the corporation's reserves deducted in its previous/last tax y	ear	_u
The corporation's capital dividend account immediately before t of its previous/last tax year	the end	MM
The corporation's low rate income pool immediately before the	end of	
its previous/last tax year	·····	NN
Cub		
Sub	total (add lines JJ, KK, LL, MM, and NN)	_ • 00
GRIP addition post-amalgamation or post-wind-up (prede year), or the corporation is becoming a CCPC (line II minu	cessor or subsidiary was not a CCPC or a DIC in its last tax is line OO) (if negative, enter "0")	РР
	Y	
After you complete this worksheet for each predecessor and ea	ach subsidiary, calculate the total of all the PP lines. Enter this tot	al amount on:
<ul> <li>line 220 for a corporation becoming a CCPC;</li> </ul>		
<ul> <li>line 230 for post-amalgamation; or</li> </ul>		
– line 240 for post-wind-up.		

### $_{ m \square}$ Part 5 – General rate factor for the tax year –

Complete this part to calculate the general rate factor for the tax year.

0.68	x	number of days in the tax year before January 1, 2010		=	QQ
		number of days in the tax year	365		
0.69	x	number of days in the tax year in 2010		=	RR
		number of days in the tax year	365		
0.7	x	number of days in the tax year in 2011		=	SS 4
		number of days in the tax year	365		
0.72	x	number of days in the tax year after December 31, 2011	365	= <u> </u>	0.720000000 TT
		number of days in the tax year	365		
General rate facto	r for	the tax year (total of lines QQ to TT)		····· <u> </u>	<u>0.72000</u> UU

**SCHEDULE 55** 



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### PART III.1 TAX ON EXCESSIVE ELIGIBLE DIVIDEND DESIGNATIONS

Name of corporation	Business Number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31
• Every corporation resident in Canada that pays a taxable dividend (other than a capital gains dividend within the meaning assigned by subsection 130.1(4) or 131(1)) in the tax year must file this schedule.	n Do no	t use this area
<ul> <li>Canadian-controlled private corporations (CCPC) and deposit insurance corporations (DIC) must complete Part 1 of this schedule. All other corporations must complete Part 2.</li> </ul>		X,
• Every corporation that has paid an eligible dividend must also file Schedule 53, General Rate Income Pool (GRIP) Calculation, or Schedule 54, Low Rate Income Pool (LRIP) Calculation, whichever is applicable.		
• File the completed schedules with your T2 Corporation Income Tax Return no later than six months from the end of the tax year.		7
• All legislative references on this schedule are to the federal Income Tax Act.	$\langle \langle \langle \rangle \rangle$	
<ul> <li>Subsection 89(1) defines the terms eligible dividend, excessive eligible dividend designation, general rate in low rate income pool (LRIP).</li> </ul>	ncome pool (GRIP), and	
• The calculations in Part 1 and Part 2 do not apply if the excessive eligible dividend designation arises from paragraph (c) of the definition of excessive eligible dividend designation in subsection 89(1). This paragrap dividend is paid to artificially maintain or increase the GRIP or to artificially maintain or decrease the LRIP.		
Part 1 – Canadian-controlled private corporations and deposit insurance cor	porations ———	
Taxable dividends paid in the tax year not included in Schedule 3	<u> </u>	
Taxable dividends paid in the tax year included in Schedule 3	1,700,000	
Total taxable dividends paid in the tax year	1,700,000	
Total eligible dividends paid in the tax year		1,700,000 A
GRIP at the end of the tax year (line 590 on Schedule 53) (if negative, enter "0")		22,734,594 в
Excessive eligible dividend designation (line 150 minus line 160)		C
Deduct:		
Excessive eligible dividend designations elected under subsection 185.1(2) to be treated as ordinary dividende	s* 180	D
Subtotal	(amount C <b>minus</b> amount D)	E
Part III.1 tax on excessive eligible dividend designations – CCPC or DIC (amount E multiplied by	20 %) 190	F
Enter the amount from line 190 on line 710 of the T2 return.		
□ Part 2 – Other corporations		
Taxable dividends paid in the tax year <b>not included</b> in Schedule 3		
Taxable dividends paid in the tax year <b>included</b> in Schedule 3		
Total taxable dividends paid in the tax year 200		
Total excessive eligible dividend designations in the tax year (amount from line A of Schedule 54)		G
Deduct:		
Excessive eligible dividend designations elected under subsection 185.1(2) to be treated as ordinary dividende		
	(amount G minus amount H)	
Part III.1 tax on excessive eligible dividend designations – Other corporations (amount I multiplied by	20 %) . <mark>290</mark>	J
Enter the amount from line 290 on line 710 of the T2 return.		

\* You can elect to treat all or part of your excessive eligible dividend designation as a separate taxable dividend in order to eliminate or reduce the Part III.1 tax otherwise payable. You must file the election on or before the day that is 90 days after the day the notice of assessment for Part III.1 tax was sent. We will accept an election before the assessment of the tax. For more information on how to make this election, go to www.cra.gc.ca/eligibledividends.



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# Schedule 500

# **Ontario Corporation Tax Calculation**

Corporation's name					Business number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.					89172 5210 RC0001	2013-12-31
<ul> <li>Use this schedule if the corporation had a permanent estable Ontario at any time in the tax year and had Ontario taxable in</li> </ul>			n section 400 of	the fed	leral Income Tax Regulations) in	R
• All legislative references are to the federal Income Tax Act a	and Income T	ax Regu	lations.		O_V	$\bigcirc$
• This schedule is a worksheet only. You do not have to file it	-			Returi	n.	
Part 1 – Calculation of Ontario basic rate of	tax for the	e year				
Number of days in the tax year before July 1, 2011		х	12.00 %	=	A1	
Number of days in the tax year	365					
Number of days in the tax year after June 30, 2011	365	x	11.50 %	=	11 50000 % A2	
Number of days in the tax year	365		11.50 /0			
Ontario basi	c rate of tax	for the y	<b>ear</b> (rate A1 <b>pl</b>	ıs A2)	11.50000 ►	11.50000 %A3
				C	<u>)</u>	
Part 2 – Calculation of Ontario basic income	o tox			$\mathbb{N}$	-	
				1		000.400
Ontario taxable income *			····			923,482 в
Ontario basic income tax: amount B multiplied by Ontario b	asic rate of ta	ax for the	vear (rate A3 fr	om Pa	rt 1)	106,200 c
		$\land$				-
If the corporation has a permanent establishment in more than or has Ontario corporate minimum tax or Ontario special additi <i>Tax Calculation Supplementary – Corporations</i> . Otherwise, em	onal tax on life	e insurar	ce corporations			
* If the corporation has a permanent establishment only in Or Otherwise, enter the taxable income allocated to Ontario fro				or line 2	Z, whichever applies, of the T2 re	turn.
	$ \longrightarrow $					
	R.	)				



– Part 3 –	Ontario	small	business	deduction	(OSBD)-

		,					
Complete this part if the corpo subsection 125(5.1) had not be	ration claimed the federal small bu een applicable in the tax year.	usiness dec	luction und	ler subsection	125(1) or would ha	ve claimed it if	
Income from active business of	carried on in Canada (amount fron	n line 400 o	f the T2 ref	turn)		· · · · · · · · · · · · · · · · · · ·	933,280 1
Federal taxable income, less a	adjustment for foreign tax credit (a	mount from	line 405 o	f the T2 return)			923,482 2
Federal business limit before t	the application of subsection 125(	5.1) (amou	nt from line	e 410 of the T2 i	return)	· · · · · · · · · · · · · · · · · · ·	500,000 3
Enter the least of amounts 1, 2	2, and 3					······	500,000 D
Ontario domestic factor:	Ontario taxal	ole income	*		923,482.00	=	1.00000 е
	Taxable income earned in al	l provinces	and territo	ries **	923,482	a de la companya de l	
Amount D x factor E	500,000_a						
Ontario taxable income (amount B from Part 2)	<u>923,482</u> b				2		
Ontario small business incom	e (lesser of amount a and amount	b) .			·····		<u>    500,000  </u> F
	er of days in the tax year efore July 1, 2011		x	7.50 %	- 5	%_G1	
Numbe	er of days in the tax year	365			X		
Number o	f days in the tax year after June 30, 2011	365	x	7.00 %	7.	.00000 % G2	
Numbe	er of days in the tax year	365			× ×		
OSBD rate for the year (rate G	G1 <b>plus</b> G2)				/···· <u> </u>	. <u>00000 %</u> G3	
Ontario small business ded	uction: amount F multiplied by C	SBD rate f	or the year	r (rate G3)			35,000 H
Enter amount H on line 402 of	Schedule 5.		$\langle \langle \rangle$				
* Enter amount B from Part	2.		$\sim$	7			
** Includes the offshore juris	dictions for Nova Scotia and Newf	oundland a	nd Labrad	or.			
– Part 4 – Ontario adju	sted small business inc	ome					
Complete this part if the corporation was a Canadian-controlled private corporation throughout the tax year and is claiming the Ontario tax credit for manufacturing and processing or the Ontario credit union tax reduction.							
Ontario adjusted small business income (lesser of amount D and amount b from Part 3)							
Enter amount I on line K in Part 5 of this schedule or on line B in Part 2 of Schedule 502, Ontario Tax Credit for Manufacturing and Processing, whichever applies.							
	· .						

رes: La this schedule La china schedule

Part 5 – Calculation of credit union tax reduction ——			
Complete this part and Schedule 17, Credit Union Deductions, if the corporati	ion was a credit union throughout the	e tax year.	
Amount D from Part 3 of Schedule 17	······	J	
Deduct: Ontario adjusted small business income (amount I from Part 4)		К	
Subtotal (amount J <b>minus</b> amount K) (if negative, enter "0")		L	
OSBD rate for the year (rate G3 from Part 3)	7.00000 %		
Amount L multiplied by the OSBD rate for the year		·······	M
Ontario domestic factor (factor E from Part 3)		····	1.00000 N
Ontario credit union tax reduction (amount M multiplied by factor N)			0
Enter amount O on line 410 of Schedule 5.	C	5	



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# **SCHEDULE 508**

### ONTARIO RESEARCH AND DEVELOPMENT TAX CREDIT

Name of corporation	Business Number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

Use this schedule to:

- calculate an Ontario research and development tax credit (ORDTC);
- claim an ORDTC earned in the tax year or carried forward from any of the 20 previous tax years that are a tax year ending after December 31, 2008, to reduce Ontario corporate income tax payable in the current tax year;
- carry back an ORDTC to reduce Ontario corporate income tax payable in any of the three previous tax years, but not to a tax year that ends before January 1, 2009;
- add an ORDTC that was allocated to the corporation by a partnership of which it was a member;
- transfer an ORDTC after an amalgamation or windup; or
- calculate a recapture of the ORDTC.
- The ORDTC is a 4.5% non-refundable tax credit on eligible expenditures incurred by a corporation in a tax year that ends after December 31, 2008.
- An eligible expenditure is an expenditure for a permanent establishment in Ontario of a corporation, that is a qualified expenditure for the purposes of section 127 of the federal *Income Tax Act* for scientific research and experimental development (SR&ED) carried on in Ontario.
- Only corporations that are not exempt from Ontario corporate income tax and none of whose income is exempt income can claim the ORDTC.
- Attach a completed copy of this schedule to the T2 Corporation Income Tax Return.

...

– Part 1 – Ontario SR&ED expenditure pool – – – – – – – – – – – – – – – – – –		
Total eligible expenditures incurred by the corporation in Ontario in the tax year	250,777	A
Deduct: Government assistance, non-government assistance, or a contract payment for eligible expenditures		В
Net eligible expenditures for the tax year (amount A minus amount B) (if negative, enter "0")	250,777	_ C
Add: Eligible expenditures transferred to the corporation by another corporation 110		D
Subtotal (amount C <b>plus</b> amount D)	250,777	► <u>250,777</u> E
<b>Deduct:</b> Eligible expenditures the corporation transferred to another corporation		<b>115</b> F
Ontario SR&ED expenditure pool (amount E minus amount F) (if negative, enter "0")		. <b>120</b> G
- Part 2 - Calculation of the current part of the ORDTC		
Ontario SR&ED expenditure pool (amount G in Part 1) 250,777	x 4.50 % =	<b>200</b> 11,285 H
ORDTC allocated to a corporation by a partnership of which it is a member (other than a specified member) for a fiscal period that ends in the corporation's tax year *		205
* If there is a disposal or change of use of eligible property, see Part 6		
Repayment made in the tax year of government or non-government assistance or a contract payment that reduced an eligible expenditure other than for first term or second term shared-use equipment	x 4.50 % =	<b>215</b> J
Repayment made in the tax year of government or non-government assistance or a contract payment that reduced an eligible expenditure for		
first term or second term		
shared-use equipment 220 × 1 / 4 =		225 К 230 11,285 L
Current part of the ORDTC (total of amounts H to K)		200 11,200 L

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- Part 3 - Calculatior	n of ORDTC available f	or deduction a	nd ORDTC bala	nce ———		
ORDTC balance at the end of	of the previous tax year .			· · · · <u> </u>	M	
Deduct: ORDTC expired a	after 20 tax years			300	N	
ORDTC at the beginning of t	the tax year (amount M <b>minus</b>	amount N)		305	0	
ORDTC transferred on amal	Igamation or windup			310	P	
Current part of ORDTC (am	ount L in Part 2)		<u>11,285</u> Q			
Are you waiving all or part of current part of the ORDTC?	f the <b>315</b> Yes 1	No 2 X				7
If you answered <b>yes</b> at line 3 the tax credit waived on line 3				Â	N V	
If you answered <b>no</b> at line 3 <sup>°</sup>	15, enter "0" on line 320.			Â	S -	
Deduct: Waiver of the curre	ent part of the ORDTC	320	R		),	
	Subtotal (amount Q minu	<b>is</b> amount R)	11,285	$\blacktriangleright$	<u>11,285</u> s	
Deduct:	tion (total of amounts O, P and nount U on line 416 of Schedul				<u>11,285</u> ► _	<u>11,285_</u> т
Supplementary – Corporatio			· · · · · · · · · · · · · · · · · · ·	••••	11,285_U	
ORDTC carried back to a pr	revious tax year (from Part 4)		·····		V	
		Subtotal	(amountU plus amou	nt V)	11,285 🕨	<u>11,285</u> w
ORDTC balance at the end	d of the tax year (amount T m	inus amount W)	Q			х
- ORDTC available for de	nore than the lesser of the follow eduction (amount T); or me tax payable before the ORD	 	corporate minimum tax	credit (amount from	n line E6 of Schedule	ə5).
Part 4 – Request fo	r carryback of tax cred	lit <del>e Contraction</del>				
	Year Month Day	$\mathcal{D}\mathcal{A}$				
1 <sup>st</sup> previous tax year	2012-12-31	)		Credit to be ap	oplied 901	
2 <sup>nd</sup> previous tax year	2011-12-31			Credit to be ap	oplied 902	
3 <sup>rd</sup> previous tax year	2010-12-31			Credit to be ap	oplied 903	
			То	tal (enter amount on	n line V in Part 3)	

### - Part 5 – Analysis of tax credit available for carryforward by tax year of origin

You can complete this part to show all the credits from preceding tax years available for carryforward, by year of origin. This will help you determine the amount of credit that could expire in following years.

Tax year of origin (earliest tax year first)					cyear of or est tax yea		
Year Month Day	Creditavailable			Year	Month	Day	Creditavailable
1994-09-30				2	003-12-3	31	
1995-09-30		-		2	004-12-3	31	
1996-09-30		-		2	005-12-3	31	<b>N</b> -
1997-09-30		-		2	006-12-3	31	K.
1998-09-30		-		2	007-12-3	81 🔍	XV
1999-09-30		-		2	008-12-3	31 👝	
2000-09-30		-		2	009-12-3	31 🗸 🔿	
2001-09-30		-		2	010-12-3	31/1	7
2001-12-31		-		2	011-12-3	H. 💛	
2002-12-31		-		2	012-12-3	81	
			Current tax year	2	013-12-3	F	

### Total (equals line 325 in Part 3)

The amount available from the 20th preceding tax year will expire after this year. When you file your return for the next year, you will enter the expired amount on line 300 of Schedule 508 for that year.

### - Part 6 – Calculation of a recapture of ORDTC -

You will have a recapture of ORDTC in a tax year when you meet all of the following conditions:

- you acquired a particular property in the current year or in any of the 20 previous tax years if the ORDTC was earned in a tax year ending after 2008;
- you claimed the cost of the property as an eligible expenditure for the ORDTC;
- the cost of the property was included in computing your ORDTC or was subject to an agreement made under subsection 127(13) of the federal Act to transfer qualified expenditures and section 42 of the *Taxation Act, 2007* (Ontario) applied and
- you disposed of the property or converted it to commercial use in a tax year ending after December 31, 2008. You also meet this condition if you disposed of or converted to commercial use a property which incorporates the particular property previously referred to.

Note: The recapture does not apply if you disposed of the property to a non-arms length purchaser who intended to use it all or substantially all for SR&ED in Ontario. When the non-arm's length purchaser later sells or converts the property to commercial use, the recapture rules will apply to the purchaser based on the historical federal investment tax credit (ITC) rate \* of the original user in Calculation 1 below.

You have to report the recapture on Schedule 5 for the year in which you disposed of the property or converted it to commercial use. If the corporation is a member of a partnership, report its share of the recapture.

If you have more than one disposition for calculations 1 and 2, complete the columns for each disposition for which a recapture applies, using the calculation formats below.

þ

\* Federal ITC in calculations 1 and 2 should be determined without reference to paragraph (e) of the definition **investment tax credit** in subsection 127(9) of the federal Act.

Calculation 1 - If you meet all of the above conditions

	Y	Z	AA
	Amount of federal ITC you originally calculated for the property you acquired, or the original user's federal ITC where you acquired the property from a non-arm's length party, as described in the note above	Amount calculated using the federal ITC rate at the date of acquisition (or the original user's date of acquisition) on either the proceeds of disposition (if sold in an arm's length transaction) or the fair market value of the property (in any other case) <b>710</b>	Amount from column 700 or 710, whichever is less
1.	A N		
		Subtotal (enter amount BB, on line KK in Part 7)	B

**Calculation 2** – If the corporation is deemed by subsection 42(1) of the *Taxation Act, 2007* (Ontario) to have transferred all or part of the eligible expenditure to another corporation as a consequence of an agreement described in subsection 127(13) of the federal Act complete Calculation 2. Otherwise, enter nil on line II.

	сс	DD	EE	
	The rate percentage that the transferee used to determine its federal ITC for a qualified expenditure that was transferred under an agreement under subsection 127(13) of the federal Act	The proceeds of disposition of the property if you dispose of it to a person at arm's length; or, in any other case, the fair market value of the property at conversion or disposition	The amount, if any, already provided for in Calculation 1 (this allows for the situation where only part of the cost of a property is transferred for an agreement under subsection 127(13) of the federal Act)	
	720	730	740	
1.				
	FF	GG	НН	
	Amount determined by the formula (CC x DD) – EE	The federal ITC earned by the transferee for the qualified expenditure that was transferred	Amount from column FF or GG, whichever is less	
	(using the columns above)			
		750	~	
1.			<u> </u>	l
		Subtotal (enter amount II or fine LL below)		II
Calcu	ulation 3			
recap	ture. If this is a positive amount, you will report it on li able to offset the recapture, then the amount by which	f the ORDTC of the partnership after the ORDTC has ne 205 in Part 2. However, if the partnership does not reductions to the ORDTC exceeds additions (the exc	have enough ORDTC otherwise	
Corpo	orate partner's share of the excess of ORDTC (enter	amount JJ at line NN below)		JJ
Dei		, Y		-
-rai	rt 7 – Total recapture of ORDTC	£.		
Reca	ptured federal ITC for Calculation 1 (amount from line	BB)	КК	
Reca	ptured federal ITC for Calculation 2 (amount from line	: Il above)	_ Ц	
Amou	unt KK <b>plus</b> amount LL		x 23.56 % =	MM
Add:	Corporate partner's share of the excess of ORDTC for	pr Calculation 3 (amount from line JJ above)	······	NN
Reca	pture of ORDTC (amount MM plus amount NN) (en	ter amount OO on line 277 of Schedule 5)		00
				-

### Schedule A - Worksheet for eligible expenditures incurred by the corporation in Ontario for the current taxation year

This worksheet allows you to report the amount of eligible expenditures entered on Form T661, *Scientific Research and Experimental Development (SR&ED) Expenditures Claim* which represents eligible expenditures as defined in section 127 of the *Income Tax Act* (ITA) with regard to scientific research and experimental development (SR&ED) carried on in Ontario and attributable to a permanent establishment in Ontario of a corporation.

Data on the worksheet is calculated based on the amounts on Form T661, but will have to be adjusted according to the rules of Ontario, if applicable, in particular when the corporation has had a permanent establishment in more than one jurisdiction. This data will be used when calculating Schedule 508 and Schedule 566.

Enter the breakdown between current and capital expenditures		
	Current Expenditures	Capital Expenditures
Total expenditures for SR&ED	136,113	43,000
Add	4	NY .
payment of prior years' unpaid expenses     (other than salary or wages)     · · · · · · · · · · · · · · · · ·	<u> </u>	V.
prescribed proxy amount     (Enter "0" if you use the traditional method)    +	72,264	7
expenditures on shared-use equipment	· · · · · · <u>A</u> . · · · ·	+
• otheradditions		+
Subtotal =	208,377	=43,000
Less		
<ul> <li>current expenditures (other than salary or wages) not paid within 180 days of the tax year end</li> <li>amounts paid in respect of an SR&amp;ED contract to a person or partnership</li> </ul>	2	
that is not taxable supplier	~~~/	
20% of contract expenditures for SR&ED performed on your behalf	600	
prescribed expenditures not allowed by regulations		-
• other deductions		-
non-arm's length transactions		
– expenditures for non-arm's length SR&ED contracts		
purchases (limited to costs) of goods and services from non-arm's     length suppliers		_
Subtotal =	207,777	I = 43,000 II
Total eligible expenditures incurred by the corporation in Ontario in the tax year (add amount I and II)		= 250,777 III
Enter amount III on line 100 of Schedule 508.		



Canada Revenue Agence du revenu du Canada

# Schedule 510

# **Ontario Corporate Minimum Tax**

Corporation's name	Business number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31
<ul> <li>File this schedule if the corporation is subject to Ontario corporate minimum tax (CMT). CMT is levied und referred to as the "Ontario Act".</li> </ul>	er section 55 of the Taxation A	Act, 2007(Ontario),
<ul> <li>Complete Part 1 to determine if the corporation is subject to CMT for the tax year.</li> </ul>		K.
<ul> <li>A corporation not subject to CMT in the tax year is still required to file this schedule if it is deducting a CMT or has a CMT loss carryforward or a current year CMT loss.</li> </ul>	credit, has a CMT credit carr	yforward,
<ul> <li>A corporation that has Ontario special additional tax on life insurance corporations (SAT) payable in the tax schedule even if it is not subject to CMT for the tax year.</li> </ul>	vyear must complete Part 4 of	this 7
<ul> <li>A corporation is exempt from CMT if, throughout the tax year, it was one of the following:</li> </ul>		
1) a corporation exempt from income tax under section 149 of the federal Income Tax Act,	$\sim$	
2) a mortgage investment corporation under subsection 130.1(6) of the federal Act;	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
3) a deposit insurance corporation under subsection 137.1(5) of the federal Act;	A V	
4) a congregation or business agency to which section 143 of the federal Act applies;		
5) an investment corporation as referred to in subsection 130(3) of the federal Act; or	C	
6) a mutual fund corporation under subsection 131(8) of the federal Act.		
File this schedule with the T2 Corporation Income Tax Return.		
Part 1 – Determination of CMT applicability	<i>b_4</i>	
	<u> </u>	
Total assets of the corporation at the end of the tax year *		113,723,000
Share of total assets from partnership(s) and joint venture(s)*		
Total assets of associated corporations (amount from line 450 on Schedule 511)	<mark>116</mark>	64,135,011
Total assets (total of lines 112 to 116)		177,858,011
Total revenue of the corporation for the tax year **		121,767,000
Share of total revenue from partnership(s) and joint venture(s) **		
Total revenue of associated corporations (amount from line 550 on Schedule 511)		4,850,449
Total revenue (total of lines 142 to 146)		126,617,449
The corporation is subject to CMT if: - for tax years ending before July 1, 2010, the total assets at the end of the year of the corporation or the ass \$5,000,000, or the total revenue for the year of the corporation or the associated group of corporations is n - for tax years ending after June 30, 2010, the total assets at the end of the year of the corporation or the associated group of corporation is not subject to CMT, do not complete the remaining parts unless the corporation is deduced carryforward, a CMT loss carryforward, a current year CMT loss, or SAT payable in the year.	nore than \$10,000,000. sociated group of corporations ions is equal to or more than \$	are equal to or more 100,000,000.
* Rules for total assets		
<ul> <li>Report total assets according to generally accepted accounting principles, adjusted so that consolidat</li> <li>Do not include unrealized gains and losses on assets and foreign currency gains and losses on asset</li> </ul>		
<ul> <li>accounting purposes but not in income for corporate income tax purposes.</li> <li>The amount on line 114 is determined at the end of the last fiscal period of the partnership or joint ver</li> </ul>	ture that and a in the tax year of	fthe
The amount on line 114 is determined at the end of the last liscal period of the partnership of joint vert corporation. Add the proportionate share of the assets of the partnership(s) and joint venture(s), and investment in partnerships and joint ventures.		
<ul> <li>A corporation's share in a partnership or joint venture is determined under paragraph 54(5)(b) of the C had no income or loss, is calculated as if the partnership's or joint venture's income were \$1 million. F partnership or joint venture, determine the corporation's share according to paragraph 54(5)(c) of the</li> </ul>	or a corporation with an indire	
** Rules for total revenue		
- Report total revenue in accordance with generally accepted accounting principles, adjusted so that co		
<ul> <li>If the tax year is less than 51 weeks, multiply the total revenue of the corporation or the partnership, number of days in the tax year.</li> </ul>		
<ul> <li>The amount on line 144 is determined for the partnership or joint venture fiscal period that ends in the partnership or joint venture has 2 or more fiscal periods ending in the filing corporation's tax year, mu of the fiscal periods by 365 and divide by the total number of days in all the fiscal periods.</li> </ul>		
<ul> <li>A corporation's share in a partnership or joint venture is determined under paragraph 54(5)(b) of the C</li> </ul>	Intario Act and, if the partners	hip or joint venture
had no income or loss, is calculated as if the partnership's or joint venture's income were \$1 million. F partnership or joint venture, determine the corporation's share according to paragraph 54(5)(c) of the	or a corporation with an indire	



Part 2 – Adjusted net income/loss for CMT purposes		
Net income/loss per financial statements *	3,000	
Add (to the extent reflected in income/loss):		
Provision for current income taxes/cost of current income taxes		
Provision for deferred income taxes (debits)/cost of future income taxes		
Equity losses from corporations 224		
Financial statement loss from partnerships and joint ventures       226         Dividends deducted on financial statements (subsection 57(2) of the Ontario Act),       230         excluding dividends paid by credit unions under subsection 137(4.1) of the federal Act       230		
Other additions (see note below):		
Share of adjusted net income of partnerships and joint ventures **		
Total patronage dividends received, not already included in net income/loss		
281		
283		
	2,000	^
	2,000	A
Deduct (to the extent reflected in income/loss):		
Provision for recovery of current income taxes/benefit of current income taxes		
Provision for deferred income taxes (credits)/benefit of future income taxes		
Equity income from corporations		
Financial statement income from partnerships and joint ventures		
Dividends deductible under section 112, section 113, or subsection 138(6) of the federal Act		
Dividends not taxable under section 83 of the federal Act (from Schedule 3)		
Gain on donation of listed security or ecological gift		
Accounting gain on transfer of property to a corporation under section 85 or 85.1 of the federal Act ***		
Accounting gain on transfer of property to/from a partnership under section 85 or 97 of the federal Act ****		
Accounting gain on disposition of property under subsection 13(4), subsection 14(6), or section 44 of the federal Act *****		
Accounting gain on a windup under subsection 88(1) of the federal Act or an amalgamation under section 87 of the federal Act		
Other deductions (see note below):		
Share of adjusted net loss of partnerships and joint ventures **		
Tax payable on dividends under subsection 191.1(1) of the federal Act <b>multiplied</b> by 3 <b>334</b> Interest deducted/deductible under paragraph 20(1)(c) or (d) of the federal Act,		
381 382		
383 384		
385 386		
387 388		
389 390		
Subtotal		в
Adjusted net income/loss for CMT purposes (line 210 plus amount A minus amount B) 3,06	5,000	
If the amount on line 490 is positive and the corporation is subject to CMT as determined in Part 1, enter the amount on line 515 in Part 3.		
If the amount on line 490 is negative, enter the amount on line 760 in Part 7 (enter as a positive amount).		
Note		
In accordance with Ontario Regulation 37/09, when calculating net income for CMT purposes, accounting income should be adjusted to:		
<ul> <li>exclude unrealized gains and losses due to mark-to-market changes or foreign currency changes on specified mark-to-market property (assets only);</li> <li>include realized gains and losses on the disposition of specified mark-to-market property not already included in the accounting income, if the property is not a capital property on the disposition of specified mark-to-market property is not a capital property on the disposition of specified mark-to-market property is not a capital property on the disposition of specified mark-to-market property is not a capital property on the disposition of specified mark-to-market property is not a capital property on the disposition of specified mark-to-market property is not a capital property on the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of specified mark-to-market property is not a capital property of the disposition of the dis</li></ul>		
"Specified mark-to-market property" is defined in subsection 54(1) of the Ontario Act.		
These rules also apply to partnerships: A corporate partner's share of a partnership's adjusted income flows through on a proportionate basis to the corporate partner		
* Rules for net income/loss		
<ul> <li>Banks must report net income/loss as per the report accepted by the Superintendent of Financial Institutions under the federal Bank Act, adjusted so consolidation and equity methods are not used.</li> </ul>		

### - Part 2 – Calculation of adjusted net income/loss for CMT purposes (continued)

- Life insurance corporations must report net income/loss as per the report accepted by the federal Superintendent of Financial Institutions or equivalent provincial insurance regulator, before SAT and adjusted so consolidation and equity methods are not used. If the life insurance corporation is resident in Canada and carries on business in and outside of Canada, **multiply** the net income/loss by the ratio of the Canadian reserve liabilities **divided** by the total reserve liability. The reserve liabilities are calculated in accordance with Regulation 2405(3) of the federal Act.
- Other corporations must report net income/loss in accordance with generally accepted accounting principles, except that consolidation and equity methods must not be used. When the equity method has been used for accounting purposes, equity losses and equity income are removed from book income/loss on lines 224 and 324 respectively.
- Corporations, other than insurance corporations, should report net income from line 9999 of the GIFI (Schedule 125) on line 210.
- \*\* The share of the adjusted net income of a partnership or joint venture is calculated as if the partnership or joint venture were a corporation and the tax year of the partnership or joint venture were its fiscal period. For a corporation with an indirect interest in a partnership through one or more partnerships, determine the corporation's share according to clause 54(5)(c) of the Ontario Act.
- \*\*\* A joint election will be considered made under subsection 60(1) of the Ontario Act if there is an entry on line 342, and an election has been made for transfer of property to a corporation under subsection 85(1) of the federal Act.
- \*\*\*\* A joint election will be considered made under subsection 60(2) of the Ontario Act if there is an entry on line 344, and an election has been made under subsection 85(2) or 97(2) of the federal Act.
- \*\*\*\*\* A joint election will be considered made under subsection 61(1) of the Ontario Act if there is an entry on line 346; and an election has been made under subsection 13(4) or 14(6) and/or section 44 of the federal Act.

For more information on how to complete this part, see the T2 Corporation - Income Tax Guide.

Adjusted net income for CMT purposes (line 490 in Part 2, if positive)	┌ Part 3 – CMT payable ────	
CMT loss available (amount R from Part 7)       ST8         Minus: Adjustment for an acquisition of control *       ST8         Adjusted CMT loss available       C         Net income subject to CMT calculation (if negative, enter "0")       S20       3,065,000         Amount from       Number of days in the tax       4 % =       1         Ine 520       3,065,000       ×       vera referor July 1,2010       ×       4 % =       1         Number of days in the tax year       365       ×       2.7 % =       82,755       2         Amount from       Number of days in the tax year       365       ×       2.7 % =       82,755       3         Gross CMT: amount on line 3 above x OAF **       Subtotal (amount 1 plus amount 2)       82,755       3       360       82,755       3         CMT after foreign tax credit for CMT purposes ***		
Minus: Adjustment for an acquisition of control*       518         Adjusted CMT loss available	Deduct:	
Minus: Adjustment for an acquisition of control*       518         Adjusted CMT loss available	CMT loss available (amount R from Part 7)	
Adjusted CMT loss available       C         Net income subject to CMT calculation (if negative, enter "0")       520       3,065,000         Amount from line 520       3,065,000       ×       Number of days in the tax year before July 1,2010       ×       4 % =       1         Amount from line 520       3,065,000       ×       Number of days in the tax year after June 30,2010       365       ×       2.7 % =       82,755       2         Amount from line 520       3,065,000       ×       Number of days in the tax year       365       ×       2.7 % =       82,755       2         Gross CMT: amount on line 3 above x OAF **       540       82,755       3         Gross cMT: amount on line 3 above x OAF **       540       82,755       0         CMT after foreign tax credit for CMT purposes ***       550       550       2         CMT after foreign tax credit deduction (line 540 minus line 550) (linegative, enter "0")       82,755       0         Deduct:		
Amountfrom line 520       3,065,000       ×       Number of days in the tax year before July 1, 2010		c
line 520       3,065,000       ×       year before July 1,2010 Number of days in the tax year       ×       4 % =1         Amount from line 520       3,065,000       ×       Number of days in the tax year after June 30,2010 Number of days in the tax year       365       2.7 % =82,755       2         Gross CMT: amount on line 3 above x OAF **	Net income subject to CMT calculation (if negative, enter "0")	
Amount from       3,065,000       x       Number of days       365         In the tax year       365       2.7 % =       82,755       2         Number of days       in the tax year       365       2.7 % =       82,755       2         Subtotal (amount 1 plus amount 2)       82,755       3         Gross CMT: amount on line 3 above x OAF **       540       82,755         Deduct:       540       82,755       0         CMT after foreign tax credit for CMT purposes ***       550       550       82,755         Deduct:       550       82,755       0         Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915       82,755         Deduct:       0       59,915       22,840       82,755         Deduct:       59,915       22,840       82,8	Amount from Number of days in the tax	
Amount from       in the tax year       305         Iine 520       3,065,000       ×       Number of days in the tax year       365       2.7 % =       82,755       2         Subtotal (amount 1 plus amount 2)		
line 520       3,065,000       ×       year after June 30, 2010       365       x       2.7 % =       82,755       2         Number of days in the tax year       365       x       2.7 % =       82,755       3         Gross CMT: amount on line 3 above x OAF **	, , , , , , , , , , , , , , , , , , ,	365
Number of days in the tax year       365         Subtotal (amount 1 plus amount 2)       82,755         Gross CMT: amount on line 3 above x OAF **       540         Deduct:       550         CMT after foreign tax credit for CMT purposes ***       550         CMT after foreign tax credit deduction (line 540 minus line 550) (if negative, enter "0")       82,755         Deduct:       550         CMT after foreign tax credit deduction (line 540 minus line 550) (if negative, enter "0")       82,755         Deduct:       59,915         Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915         Net CMT payable (if negative, enter "0")       22,840         Enter amount E on line 278 of Schedule 5, Tax Calculation Supplementary – Corporations, and complete Part 4.       * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.         *** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J of the province of Ontario from Part 9 of Schedule 21 on line 550.         ** Calculation of the Ontario allocation factor (OAF):         If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.		
in the tax year Subset of the second		<u>365 x</u> 2.7 % = <u>82,755</u> 2
Subtotal (amount 1 plus amount 2)       82,755         Gross CMT: amount on line 3 above x OAF **       540         Deduct:       550         CMT after foreign tax credit for CMT purposes ***       550         CMT after foreign tax credit deduction (line 540 minus line 550) (it negative, enter "0")       82,755         Deduct:       0ntario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915         Net CMT payable (if negative, enter "0")       22,840       22,840         Enter amount E on line 278 of Schedule 5, <i>Tax Calculation Supplementary – Corporations</i> , and complete Part 4.       * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Omario Act.         **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         ** Calculation of the Ontario allocation factor (OAF):         If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	, , , , , , , , , , , , , , , , , , ,	365 📝
Gross CMT: amount on line 3 above x OAF **       540       82,755         Deduct:       550       550         CMT after foreign tax credit for CMT purposes ***       550       82,755         CMT after foreign tax credit deduction (line 540 minus line 550) (if negative, enter "0")       82,755       D         Deduct:       0       82,755       D         Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915       S2,840       E         Enter amount E on line 278 of Schedule 5, <i>Tax Calculation Supplementary – Corporations</i> , and complete Part 4.       * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.       ***       Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.       *** Calculation of the Ontario Act.         *** Calculation of the Ontario allocation factor (OAF):       If the provincial or territorial jurisduction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.       State "1" on line F.		
Deduct:         Foreign tax credit for CMT purposes ***         CMT after foreign tax credit deduction (line 540 minus line 550) (if negative, enter "0")         Deduct:         Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)         Net CMT payable (if negative, enter "0")         Enter amount E on line 278 of Schedule 5, <i>Tax Calculation Supplementary – Corporations</i> , and complete Part 4.         * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.         **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         *** Calculation of the Ontario allocation factor (OAF):         If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	Subtotal (amount 1 <b>plus</b> amoun	nt 2) <u>82,755</u> 3
Foreign tax credit for CMT purposes ***       550         CMT after foreign tax credit deduction (line 540 minus line 550) (if negative, enter "0")       82,755         Deduct:       0ntario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915         Net CMT payable (if negative, enter "0")       22,840       22,840         Enter amount E on line 278 of Schedule 5, Tax Calculation Supplementary – Corporations, and complete Part 4.       22,840       22,840         * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.       **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         *** Calculation of the Ontario allocation factor (OAF):       If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	Gross CMT: amount on line 3 above x OAF **	
CMT after foreign tax credit deduction (line 540 minus line 550) (if negative, enter "0")       82,755         Deduct:       0ntario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915         Net CMT payable (if negative, enter "0")       22,840       22,840         Enter amount E on line 278 of Schedule 5, <i>Tax Calculation Supplementary – Corporations</i> , and complete Part 4.       * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.         **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         ** Calculation of the Ontario allocation factor (OAF):         If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	Deduct:	
Deduct:       59,915         Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915         Net CMT payable (if negative, enter "0")       22,840         Enter amount E on line 278 of Schedule 5, <i>Tax Calculation Supplementary – Corporations</i> , and complete Part 4.       22,840         * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.       **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         *** Calculation of the Ontario allocation factor (OAF):         If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.		
Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)       59,915         Net CMT payable (if negative, enter "0")       22,840         Enter amount E on line 278 of Schedule 5, Tax Calculation Supplementary – Corporations, and complete Part 4.       22,840         * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.       **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         *** Calculation of the Ontario allocation factor (OAF):       If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	CMT after foreign tax credit deduction (line 540 minus line 550) (if negative	e, enter "0")
Net CMT payable (if negative, enter "0")       22,840         Enter amount E on line 278 of Schedule 5, Tax Calculation Supplementary – Corporations, and complete Part 4.         * Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.         **** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.         *** Calculation of the Ontario allocation factor (OAF):         If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.		50.045
<ul> <li>Enter amount E on line 278 of Schedule 5, <i>Tax Calculation Supplementary – Corporations</i>, and complete Part 4.</li> <li>* Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontario Act.</li> <li>*** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.</li> <li>** Calculation of the Ontario allocation factor (OAF):</li> <li>If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.</li> </ul>		
<ul> <li>Enter the portion of CMT loss available that exceeds the adjusted net income for the tax year from carrying on a business before the acquisition of control. See subsection 58(3) of the Ontano Act.</li> <li>*** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.</li> <li>** Calculation of the Ontario allocation factor (OAF):</li> <li>If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.</li> </ul>		
<ul> <li>control. See subsection 58(3) of the Ontario Act.</li> <li>*** Enter "0" on line 550 for life insurance corporations as they are not eligible for this deduction. For all other corporations, enter the cumulative total of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.</li> <li>** Calculation of the Ontario allocation factor (OAF):</li> <li>If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.</li> </ul>	Enter amount E on line 278 of Schedule 5, Tax Calculation Supplementar	y – Corporations, and complete Part 4.
of amount J for the province of Ontario from Part 9 of Schedule 21 on line 550.  ** Calculation of the Ontario allocation factor (OAF): If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.		income for the tax year from carrying on a business before the acquisition of
** Calculation of the Ontario allocation factor (OAF): If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	*** Enter "0" on line 550 for life insurance corporations as they are not eli	gible for this deduction. For all other corporations, enter the cumulative total
If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "Ontario," enter "1" on line F.	of amount J for the province of Ontario from Part 9 of Schedule 21 on	line 550.
	** Calculation of the Ontario allocation factor (OAF):	
If the provincial or territorial writerian entered on line 750 of the T2 return is "multiple" complete the following coloulation, and enter the result on line T:	If the provincial or territorial jurisdiction entered on line 750 of the T2 retu	Irn is "Ontario," enter "1" on line F.
If the provincial or territorial jurisdiction entered on line 750 of the T2 return is "multiple," complete the following calculation, and enter the result on line F:	If the provincial or territorial jurisdiction entered on line 750 of the T2 retu	rn is "multiple," complete the following calculation, and enter the result on line F:
Ontario taxable income **** =	Ontario taxable income ****	
Taxable income *****		
**** Enter the amount allocated to Ontario from column F in Part 1 of Schedule 5. If the taxable income is nil, calculate the amount in column F as if the taxable income were \$1,000.		edule 5. If the taxable income is nil, calculate the amount in column F as if the
***** Enter the taxable income amount from line 360 or amount Z of the T2 return, whichever applies. If the taxable income is nil, enter "1,000".		return, whichever applies. If the taxable income is nil, enter "1,000".

Part 4 – Calculation of CMT credit carryforward ————————————————————————————————————			
CMT credit carryforward at the end of the previous tax year *		30,066 G	
Deduct:		0	
CMT credit expired *	600		
CMT credit carryforward at the beginning of the current tax year * (see note below)		30,066 <b>620</b>	30,066
Add:			
CMT credit carryforward balances transferred on an amalgamation or the windup of a subsidiary	y (see note below)	650	
CMT credit available for the tax year (amount on line 620 <b>plus</b> amount on line 650)		· · · · · · · · · · · · · · · · · · ·	30,066 H
Deduct:			
CMT credit deducted in the current tax year (amount P from Part 5)		t H <b>minus</b> amount()	30,066 J
Add:	Oublotal (amoun		00,000 0
Net CMT payable (amount E from Part 3)		22,840	
SAT payable (amount O from Part 6 of Schedule 512)			
	Subtotal	22,840	22,840 K
CMT credit carryforward at the end of the tax year (amount J <b>plus</b> amount K)			52,906 L
			02,700 L
* For the first harmonized T2 return filed with a tax year that includes days in 2009:			
<ul> <li>do not enter an amount on line G or line 600;</li> </ul>	6		
<ul> <li>for line 620, enter the amount from line 2336 of Ontario CT23 Schedule 101, Corporat</li> </ul>	te Minimum Tax (CMT,	, for the last tax year that ended in	2008.
For other tax years, enter on line G the amount from line 670 of Schedule 510 from the prev		·	
Note: If you entered an amount on line 620 or line 650, complete Part 6.	, D		
Part 5 – Calculation of CMT credit deducted from Ontario corporate	e income tax pay	vable	
CMT credit available for the tax year (amount H from Part 4)			30,066 M
	$\searrow$		
Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)	· · · · · · · ·	59,915 1	
For a corporation that is not a life insurance corporation:			
CMT after foreign tax credit deduction (amount D from Part 3)82,755	2		
For a life insurance corporation:			
Gross CMT (line 540 from Part 3)	3		
Gross SAT (line 460 from Part 6 of Schedule 512)	4		
The greater of amounts 3 and 4	5		
Deduct: line 2 or line 5, whichever	applies:	82,755 6	
Subtotal (if negative, e	enter "0")	►	N
Ontario corporate income tax payable before CMT credit (amount F6 from Schedule 5)		59,915	
Deduct:			
Total refundable tax credits excluding Ontario qualifying environmental trust tax credit		20,000	
(amount J6 minus line 450 from Schedule 5)	· · · · · · ·	<u>20,000</u> 39,915 ►	39,915 o
Subtotal (if negative, e	enter "O")	J7,71J	37,713 0
CMT credit deducted in the current tax year (least of amounts M, N, and O)			Р
Enter amount P on line 418 of Schedule 5 and on line I in Part 4 of this schedule.			
		675	2 No X
Is the corporation claiming a CMT credit earned before an acquisition of control?		675 1 Yes	2 INO 🔼
If you answered <b>yes</b> to the question at line 675, the CMT credit deducted in the current tax year may be restricted, see subsections 53(6) and (7) of the Ontario Act.	may be restricted. For	information on how the deduction	

# Part 6 – Analysis of CMT credit available for carryforward by year of origin -

Complete this part if:

- the tax year includes January 1, 2009; or
- the previous tax year-end is deemed to be December 31, 2008, under subsection 249(3) of the federal Act.

Year of origin	CMT credit balance *	
10th previous	680	
tax year		
9th previous	681	
tax year		$\searrow$
8th previous	682	
tax year	002	A V
7th previous	683	
tax year		XV
6th previous	684	SV
tax year		7
5th previous	685	<i>,</i>
tax year		
4th previous	686	
tax year		
3rd previous	C07	
tax year	687	
2nd previous		
	688	
tax year		
1st previous	689	
tax year		
Total **		

\* CMT credit that was earned (by the corporation, predecessors of the corporation, and subsidiaries wound up into the corporation) in each of the previous 10 tax years and has not been deducted.

\*\* Must equal the total of the amounts entered on lines 620 and 650 in Part 4.

- P:	art 7 – Calculation of CMT loss carryforward — Carter Cart	
СМ	T loss carryforward at the end of the previous tax year *	
Dec	luct:	
СМ	T loss expired *	
СМ	T loss carryforward at the beginning of the tax year * (see note below)	
Ado		
СМ	T loss transferred on an amalgamation under section 87 of the federal Act ** (see note below)	
СМ	T loss available (line 720 <b>plus</b> line 750)	R
	luct:	
СМ	T loss deducted against adjusted net income for the tax year (lesser of line 490 (if positive) and line C in Part 3)	
	Subtotal (if negative, enter "0")	S
Ado		
Adj	usted net loss for CMT purposes (amount from line 490 in Part 2, if <b>negative</b> ) (enter as a positive amount)	
СМ	T loss carryforward balance at the end of the tax year (amount S plus line 760)	T
*	For the first harmonized T2 return filed with a tax year that includes days in 2009:	
	- do not enter an amount on line Q or line 700;	
	- for line 720, enter the amount from line 2214 of Ontario CT23 Schedule 101, Corporate Minimum Tax (CMT), for the last tax year that ended in 2008.	
	For other tax years, enter on line O the amount from line 770 of Schedule 510 from the previous tax year.	
**	Do not include an amount from a predecessor corporation if it was controlled at any time before the amalgamation by any of the other predecessor corporations.	
	Note: If you entered an amount on line 720 or line 750, complete Part 8.	
-		

# - Part 8 – Analysis of CMT loss available for carryforward by year of origin –

Complete this part if:

- the tax year includes January 1, 2009; or
- the previous tax year-end is deemed to be December 31, 2008, under subsection 249(3) of the federal Act.

Year of origin	Balance earned in a tax year ending before March 23, 2007 *	Balance earned in a tax year ending after March 22, 2007 **
10th previous tax year	810	820
9th previous tax year	811	821
8th previous tax year	812	822
7th previous tax year	813	823
6th previous tax year	814	824
5th previous tax year	815	825
4th previous tax year	816	826
3rd previous tax year	817	827
2nd previous tax year	818	828
1st previous tax year		829
Total ***		

\* Adjusted net loss for CMT purposes that was earned (by the corporation, by subsidiaries wound up into or amalgamated with the corporation before March 22, 2007, and by other predecessors of the corporation) in each of the previous 10 tax years that ended before March 23, 2007, and has not been deducted.

\*\* Adjusted net loss for CMT purposes that was earned (by the corporation and its predecessors, but not by a subsidiary predecessor) in each of the previous 20 tax years that ended after March 22, 2007, and has not been deducted.

\*\*\* The total of these two columns must equal the total of the amounts entered on lines 720 and 750.

Oshawa PUC Networks Inc. - PIL Return.213



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# SCHEDULE 511

# ONTARIO CORPORATE MINIMUM TAX – TOTAL ASSETS AND REVENUE FOR ASSOCIATED CORPORATIONS

Name of corporation	Business Number	Tax year-end
		Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

• For use by corporations to report the total assets and total revenue of all the Canadian or foreign corporations with which the filing corporation was associated at any time during the tax year. These amounts are required to determine if the filing corporation is subject to corporate minimum tax.

• Total assets and total revenue include the associated corporation's share of any partnership(s)/joint venture(s) total assets and total revenue

- Attach additional schedules if more space is required.
- File this schedule with the T2 Corporation Income Tax Return.

	Names of associated corporations	Business number (Canadian corporation only) (see Note 1)	Total assets* (see Note 2)	Total revenue** (see Note 2)
	200	300	400	500
1	OSHAWA POWER AND UTILITIES CORPORATION	86486 7593 RC0001	50,566,467	2,164,065
2	OSHAWA PUC ENERGY SERVICES INC.	85749 1336 RC0001	7,846,000	1,169,000
3	OSHAWA PUC SERVICES INC. PILS	86579 9662 RC0001	5,722,544	1,207,288
4	2252112 Ontario Inc.	80068 6453 RC0001	0	310,096
		$\bigwedge$		550
		Total	64,135,011	4,850,449

Enter the total assets from line 450 on line 116 in Part 1 of Schedule 510, Ontario Corporate Minimum Tax. Enter the total revenue from line 550 on line 146 in Part 1 of Schedule 510.

Note 1: Enter "NR" if a corporation is not registered.

Note 2: If the associated corporation does not have a tax year that ends in the filing corporation's current tax year but was associated with the filing corporation in the previous tax year of the filing corporation, enter the total revenue and total assets from the tax year of the associated corporation that ends in the previous tax year of the filing corporation.

#### \* Rules for total assets

- Report total assets in accordance with generally accepted accounting principles, adjusted so that consolidation and equity methods are not used.
- Include the associated corporation's share of the total assets of partnership(s) and joint venture(s) but exclude the recorded asset(s) for the investment in partnerships and joint ventures.
- Exclude unrealized gains and losses on assets that are included in net income for accounting purposes but not in income for corporate income tax purposes.

### \*\* Rules for total revenue

- Report total revenue in accordance with generally accepted accounting principles, adjusted so that consolidation and equity methods are not used.
- If the associated corporation has 2 or more tax years ending in the filing corporation's tax year, multiply the sum of the total revenue for each of those tax years by 365 and divide by the total number of days in all of those tax years.
- If the associated corporation's tax year is less than 51 weeks and is the only tax year of the associated corporation that ends in the filing corporation's tax year, multiply the associated corporation's total revenue by 365 and divide by the number of days in the associated corporation's tax year.
- Include the associated corporation's share of the total revenue of partnerships and joint ventures.
- If the partnership or joint venture has 2 or more fiscal periods ending in the associated corporation's tax year, multiply the sum of the total revenue for each of the fiscal periods by 365 and divide by the total number of days in all the fiscal periods.

T2 SCH 511

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Canada Revenue Agence du revenu Agency du Canada

# **SCHEDULE 552**

# ONTARIO APPRENTICESHIP TRAINING TAX CREDIT

Name of corporation	Business Number	Tax year-end Year Month Day
Oshawa PUC Networks Inc.	89172 5210 RC0001	2013-12-31

- Use this schedule to claim an Ontario apprenticeship training tax credit (ATTC) under section 89 of the Taxation Act, 2007 (Ontario).
- The ATTC is a refundable tax credit that is equal to a specified percentage (25% to 45%) of the eligible expenditures incurred by a corporation for a qualifying apprenticeship. Before March 27, 2009, the maximum credit for each apprentice is \$5,000 per year to a maximum credit of \$15,000 over the first 36-month period of the qualifying apprenticeship. After March 26, 2009, the maximum credit for each apprentice is \$10,000 per year to a maximum credit of \$40,000 over the first 48-month period of the qualifying apprenticeship. The maximum credit amount is prorated for an employment period of an apprentice that straddles March 26, 2009.
- Eligible expenditures are salaries and wages (including taxable benefits) paid to an apprentice in a qualifying apprenticeship or fees paid to an
  employment agency for the provision of services performed by the apprentice in a qualifying apprenticeship. These expenditures must be:

   paid on account of employment or services, as applicable, at a permanent establishment of the corporation in Ontario;
   Description
  - paid on account of employment of services, as applicable, at a permanent establishment of the opportation in Ontario,
  - for services provided by the apprentice during the first 36 months of the apprenticeship program, if incurred before March 27, 2009; and
- for services provided by the apprentice during the first 48 months of the apprenticeship program, if incurred after March 26, 2009.
- An expenditure is not eligible for an ATTC if:
  - the same expenditure was used, or will be used, to claim a co-operative education tax credit; or
  - it is more than an amount that would be paid to an arm's length apprentice.
- An apprenticeship must meet the following conditions to be a qualifying apprenticeship:
  - the apprenticeship is in a qualifying skilled trade approved by the Ministry of Training, Colleges and Universities (Ontario); and
     the corporation and the apprentice must be participating in an apprenticeship program in which the training agreement has been registered under the Ontario College of Trades and Apprenticeship Act, 2009 or the Apprenticeship and Certification Act, 1998 or in
  - which the contract of apprenticeship has been registered under the Trades Qualification and Apprenticeship Act.
- Make sure you keep a copy of the training agreement or contract of apprenticeship to support your claim. Do not submit the training agreement or contract of apprenticeship with your *T2 Corporation Income Tax Return*.
- File this schedule with your T2 Corporation Income Tax Return.

### -Part 1 - Corporate information (please print)

110 Name of person to contact for more information		120 Telephone number includir	ng area code
DAVID SAVAGE	<u> </u>	(905) 743-5219	
Is the claim filed for an ATTC earned through a partnership? *	·····		Yes 2 No X
If yes to the question at line 150, what is the name of the partnership	?		
Enter the percentage of the partnership's ATTC allocated to the corport	pration		%
* When a corporate member of a partnership is claiming an amoun partnership as if the partnership were a corporation. Each corpora the partner's share of the partnership's ATTC. The total of the par	ate partner, other than a limited	partner, should file a separate Schedule 552 to	claim
	0		
Part 2 – Eligibility			
1. Did the corporation have a permanent establishment in Ontario in	the tax year?		Yes X 2 No
2. Was the corporation exempt from taxunder Part III of the Taxatio	n Act, 2007(Ontario)?		Yes 2 No X

If you answered **no** to question  $1 \neq 0$  yes to question 2, then you are **not eligible** for the ATTC.



⊢ Pa	rt 3 – Sp	ecified percentage ———					
	-	aries and wages paid in the previous	tax year * .			6,537,877	
	• •	nditures incurred before March 27, 20 3400,000 or less, enter 30% on line 3					
— If	line 300 is \$	600,000 or more, enter 25% on line 3	310.				
— If	line 300 is n	nore than \$400,000 and less than \$60	00,000, enter the pe	ercentage on line 310 using the	following formula:		
		Г		amount on line 300	Г		
s	pecified per	centage = $30\%$ -	5% X (	minus	400,000 )		
		centage = 30 % -	<u> </u>	200	000	X	
	cified perce				(a) (a)	310 25.000 %	
	• •	nditures incurred after March 26, 2009 3400,000 or less, enter 45% on line 3				V	
		600,000 or more, enter 35% on line 3				Ť	
		nore than \$400,000 and less than \$60		ercentage on line 312 using the	following formula		
		centage = <sub>45</sub> % -		amount on line 300			
S	pecified per	centage = $45\%$ –	10 % × (	minus	4,00,000		
		L		200,	.000		
Spe	cified perce					<b>312</b> 35.000 %	
		st tax year of an amalgamated corpo		on 89(6) of the Taxation Act, 20	007 (Ontario) applies, enter salar	ies and wages	
р	aid in the pre	evious tax year by the predecessor co	rporations.				
_ Da	rt 4 – Ca	Iculation of the Ontario ap	pronticoshin t	raining tax credit			
		arate entry for each apprentice that	•		when claiming an ATTC for r	anavment	
		ssistance, complete a separate entr					
		riod in the previous tax year in which th					
	Α	В		¥	С		
	Trade	Apprenticeship pi	ogram/		Name of apprentice		
	code	tradename	9				
	400	405			410		
1.	434a 447a	Powerline Technician Instrumentation and Control	Tochnician	Tyler Duffin			
2.	44/a	Instrumentation and control		Anthony Bianca	1		
		D Original contract or training agreement number		E Original registration date of apprenticeship contract or	<b>F</b> Start date of employment as an apprentice in the tax year	<b>G</b> End date of employment as an apprentice in the tax year	
				training agreement (see note 1 below)	(see note 2 below)	(see note 3 below)	
		420	( A V	425	430	435	
1.	PC2664		• • • • • • • • • • • • • • • • • • •	2012-01-01	2013-01-01	2013-12-31	
2.	PE3554		)	2012-03-05	2013-01-01	2013-12-31	
Note	1. Enter the	e original registration date of the appre	enticeship contract	or training agreement in all case	s even when multiple employer	s	
		d the apprentice.				-	
Note		ere are multiple employment periods nent as an apprentice in the tax year v					
		date of employment as an apprentice					
Note		ere are multiple employment periods					
		nent as an apprentice in the tax year v				nce, enter	
	the end (	date of employment as an apprentice	ior the tax year in W	nich the government assistance	e was received.		
L							

# ┌ Part 4 – Calculation of the Ontario apprenticeship training tax credit (continued) —

	H1 Number of days employed as an apprentice in the tax year before March 27, 2009 (see note 1 below)	H2 Number of days employed as an apprentice in the tax year after March 26, 2009 (see note 1 below)	H3 Number of days employed as an apprentice in the tax year (column H1 <b>plus</b> column H2)	l Maximum credit amount for the tax year (see note 2 below)
	441	442	440	445
1.		365	365	10,000
2.		365	365	10,000
	J1 Eligible expenditures before March 27, 2009 (see note 3 below)	J2 Eligible expenditures after March 26, 2009 (see note 3 below)	J3 Eligible expenditures for the tax year (column J1 <b>plus</b> column J2)	K Eligible expenditures multiplied by specified percentage (see note 4 below)
	451	452	450	460
1.		90,978	90,978	31,842
2.		61,518	61,518	21,531
		L ATTC on eligible expenditures (lesser of columns I and K)	M ATTC on repayment of government assistance (see note 5 below)	<b>N</b> ATTC for each apprentice (column L or column M, whichever applies)
		470	480	490
	1.	10,000		10,000
	2.	10,000		10,000
or, if th Amou	e corporation answered <b>yes</b> at line 150	ario apprenticeship training tax cred ) in Part 1, determine the partner's share rcentage on line 170 in Part 1		20,000 <b>C</b>
		le la	Supplementary – Corporations. If you are :	
			ules, and enter the total amount on line 45	
	the individual was not employed as an For H1: The days employed as an a For H2: The days employed as an a	apprentice. pprentice must be within 36 months of th pprentice must be within 48 months of th	with the corporation, do not include days in ne registration date provided in column E. ne registration date provided in column E.	n which
Note 2:	Maximum credit = (\$5,000 x H1/365*) * 366 days, if the tax year includes Fel			
Note 3:	corporation has received, is entitled to filing due date of the <i>T2 Corporation II</i> . For J1: Eligible expenditures before apprenticeship program.	receive, or may reasonably expect to re- ncome Tax Return for the tax year. March 27, 2009, must be for services p	subsection 89(19) of the <i>Taxation Act, 20</i> ceive, in respect of the eligible expenditur rovided by the apprentice during the first vided by the apprentice during the first 48	es, on or before the 36 months of the
Note 4:	Calculate the amount in column K as f Column K = $(J1 \times line 310) \neq (J2 \times line)$			
Note 5:	Include the amount of government as	sistance repaid in the tax year multiplied to the extent that the government assist	by the specified percentage for the tax ye ance reduced the ATTC in that tax year.	ar in which the