

# Wellington North Power Inc.

290 Queen Street West, PO Box 359, Mount Forest, ON NOG 2L0
Phone: 519.323.1710 Fax: 519.323.2425
E-mail: wnp@wellingtonnorthpower.com

www.wellingtonnorthpower.com

September 26, 2013

Ontario Energy Board Attention: Kirsten Walli, Board Secretary 2300 Yonge Street 27<sup>th</sup> Floor P.O. Box 2319 Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: Wellington North Power Inc. – ED-2002-0511

2014 4<sup>th</sup> Generation Incentive Rate Mechanism Adjustment Application

OEB File Number: EB-2013-0178

Please find attached Wellington North Power Inc.'s 4<sup>th</sup> Generation Incentive Rate Mechanism Adjustment Application for 2014 Distribution rates. This application is being filed in accordance with Chapter 3 of the filing requirements for Transmission and Distribution Applications as issued by the OEB on July 17, 2013.

An electronic copy of this Application has been filed on the RESS site and two hard copies have been sent by courier to the Board's office for the attention of the Board Secretary.

Should the Board have questions regarding this matter please contact Richard Bucknall at <a href="mailto:rbucknall@wellingtonnorthpower.com">rbucknall@wellingtonnorthpower.com</a> or myself at <a href="mailto:jrosebrugh@wellingtonnorthpower.com">jrosebrugh@wellingtonnorthpower.com</a> or call 519-323-1710.

Yours truly,

Judy Rosebrugh

**President & CEO** 

Wellington North Power Inc. 290 Queen Street West, P.O. Box 359 Mount Forest, ON NOG 2L0

Phone: 519-323-1710 Fax: 519-323-2425

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 2 of 218

# WELLINGTON NORTH POWER INC.

## **APPLICATION FOR APPROVAL OF ELECTRICITY DISTRIBUTION RATES**

2014 4<sup>th</sup> GENERATION INCENTIVE RATE-SETTING INDEX

**EFFECTIVE MAY 1, 2014** 

EB-2013-0178

# **INDEX OF APPLICATION**

# **Contents**

Ε	xhibit 1: Administrative Documents	9
	Application	9
	The Applicant:	13
	Manager's Summary1	14
	Price Cap Adjustment:	15
	Distribution Rate Adjustments	16
	Retail Transmission Service Rates:1	16
	Deferral and Variance Account Rate Riders1	17
	Deferral and Variance Account Analysis2	20
	Shared Tax Savings2	21
	Continuance of Rate Riders2	22
	Specific Service Charges and Loss Factors2	23
	Low Voltage Service Charges2	23
	Incremental Capital Module2	23
	Z Factor2	25
	LRAMVA Disposition2	25
	Regulatory Accounting Policy Changes;2	25
	Summary of Proposed Rates and Bill Impacts2	26
	Residential Customer - Bill Impact2	29
	General Service <50kW Customer - Bill Impact	30
	Rate Mitigation	30
	Notice of Application	31

	Cost Alloc	ation	n	31
	Evidence	Supp	porting this Application	32
E	Exhibit 2:	Tax	x Sharing Model	33
	Tax Sharii	ng:	Information	33
	Tax Sharir	ng:	Re-Based Billing Determinants and Rates	34
	Tax Sharir	ng:	Calculation of Re-Based Revenue from Rates	35
	Tax Sharir	ng:	Z-factor Tax Changes	36
	Tax Sharir	ng:	Calculation of Tax Charge Rate Rider Variance	37
E	Exhibit 3:	RTS	SR Workform	38
	RTSR:	Info	ormation:	38
	RTSR:	Rate	te Classes and Current RTS Network and Connection Rates	39
	RTSR:	Rep	ported RRR Billing Determinants	40
	RTSR:	Trar	nsmission Rates	41
	RTSR:	Curi	rrent Wholesale Uniform Transmission Rates	42
	RTSR:	Fore	recast Wholesale Uniform Transmission Rates	43
	RTSR:	Adju	ustment to Recover Current Wholesale Network Costs	44
	RTSR:	Adju	ustment to Recover Current Wholesale Connection Costs	44
	RTSR:	Adju	ustment to Recover Forecast Wholesale Network Costs	45
	RTSR:	Adju	ustment to Recover Forecast Wholesale Connection Costs	45
	RTSR:	Prop	posed 2014 RTS Rates	46
E	xhibit 4:	Rev	venue-to-Cost Ratio Workform	47
	Rev to Cos	st Ra	atio: Introduction	47
	Rev to Cos	st Rat	atio: Re-based Billing Determinants and Rates	48
	Rev to Cos	st Rat	atio: Removal of Rate Adders	49
	Rev to Cos	t Raf	atio: Calculation of Current Revenue	50

	Rev to Cost Ratio: Appro	ved Revenue Cost Ratios	51
	Rev to Cost Ratio: Rever	nue Offsets	51
	Rev to Cost Ratio: Trans	former Allowance	52
	Rev to Cost Ratio: Propo	sed Revenue to Cost Ratios	53
	Rev to Cost Ratio: Propo	sed Revenue	54
	Rev to Cost Ratio: Adjust	tment to Proposed Rates	55
E	Exhibit 5: Incremental Ca	pital Module	56
	Background		58
	Alternatives		60
	Recommendation:		63
	Substation Assessment Re	eport	64
	Incremental Capital Project	t Expenditures	72
	Proposed 2014 Capital Spe	ending Plan	. 76
	2014 Capital Spending – D	Discretionary and Non-Discretionary	. 76
	Information Sheet		. 80
	Incremental Capital Project	t Summary	81
	Incremental Capital Workfo	orm:	. 82
	Information Sheet		. 82
	Rate Class and Re-Based	Billing Determinants & Rates	. 83
	Removal of Rate Adders		. 84
	Calculation of Re-Based re	evenue from Rates	. 85
	Detailed Re-Based Revenu	ue from Rates	. 86
	Load Actual – 2011 Actual		. 87
	Current Revenue from Rate	es	. 87
	Threshold Parameters		22

Threshold Test
Summary of Incremental Capital Projects:90
Incremental Capital Adjustment91
Rate Rider – Option A92
Exhibit 6: 2014 IRM 4 <sup>th</sup> Generation Rate Generator93
Information Sheet93
Rate Class Selection94
Current Tariff Schedule: Residential95
Current Tariff Schedule: General Service <50kW96
Current Tariff Schedule: General Service 50 to 999 kW97
Current Tariff Schedule: General Service 1000 to 4999 kW
Current Tariff Schedule: Unmetered Scattered Load99
Current Tariff Schedule: Sentinel Lighting
Current Tariff Schedule: Street Lighting
Current Tariff Schedule: MicroFIT
Continuity Schedule: 2012 Transactions
Continuity Schedule: 2013 Projections and RRR Reporting
Continuity Schedule: Deferral and Variance Account Analysis
Billing Determinant for Deferral- Variance Balances Allocation
Allocation of Deferral and Variance Balances
Calculation of Deferral – Variance Balances
Revenue to Cost – GDP Implicit Price Index (IPI)
Allowances and Specific Service Charges
Proposed Rates: Residential
Proposed Pates: General Service <50kW

# Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 7 of 219

Proposed Rates: General Service 50	- 999kW	. 115
Proposed Rates: General Service 10	00 - 4999kW	. 116
Proposed Rates: Unmetered Scattere	ed Load	. 117
Proposed Rates: Sentinel Lighting		. 118
Proposed Rates: Street Lighting		. 119
Proposed Rates: MicroFIT		. 119
Current vs Proposed Rates: Resident	tialtial	. 120
Current vs Proposed Rates: General	Service <50kW	. 120
Current vs Proposed Rates: General	Service 50- 999kW	. 121
Current vs Proposed Rates: General	Service 1000- 4999kW	. 121
Current vs Proposed Rates: Unmeter	red Scattered Load	. 122
Current vs Proposed Rates: Sentinel	Lighting	. 122
Current vs Proposed Rates: Street Lig	ghting	. 123
Current vs Proposed Rates: MicroFIT		. 123
Proposed Tariff of Rates and Charges:	Residential	. 124
Proposed Tariff of Rates and Charges:	General Service <50 kW	. 125
Proposed Tariff of Rates and Charges:	General Service 50 - 999 kW	. 126
Proposed Tariff of Rates and Charges:	General Service 1000 - 4999 kW	. 127
Proposed Tariff of Rates and Charges:	Unmetered Scattered Load	. 128
Proposed Tariff of Rates and Charges:	Sentinel Lighting	. 129
Proposed Tariff of Rates and Charges:	Street Lighting	. 130
Proposed Tariff of Rates and Charges:	MicroFIT	. 131
Proposed Tariff of Rates and Charges:	Allowances	. 132
Proposed Tariff of Rates and Charges:	Retail Service Charges	. 133
Bill Impact: Residential Customer - 80	00 kWh	134

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 8 of 219

Bill Impact:	General Service < 50 kW Customer – 2,000 kWh:	135
Appendix 1:	Decision and Order for May 1, 2013 Tariff of Rates and Charges	136
Appendix 2:	Proposed Tariff of Rates and Charges	156
Appendix 3:	Customer Bill Impacts	166
Residential (	Customer - 800 kWh:	166
General Ser	vice <50 kW Customer – 2,000 kWh:	167
Appendix 4:	Capital Expenditure Plans 2013 - 2018	168
2013 CapEx	Plan	169
2014 CapEx	Plan	170
2015 CapEx	Plan	171
2016 CapEx	Plan	172
2017 CapEx	Plan	173
2018 CapEx	Plan	174
Appendix 5	3 <sup>rd</sup> Party Substation Condition Assessment Study	175

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 9 of 219

# **Exhibit 1: Administrative Documents**

# **Application**

#### **ONTARIO ENERGY BOARD**

EB-2013-0178

IN THE MATTER OF the Ontario Energy Board Act, 1998,

AND IN THE MATTER OF an Application by Wellington North Power Inc., for an Order or Orders approving just and reasonable rates for the distribution of electricity to be implemented on May 1, 2014.

#### **APPLICATION**

 The Applicant is Wellington North Power Inc. (referred to in this application as the "Applicant", the "Distributor", the "Company", "Wellington North Power" or "WNP"). The company is incorporated pursuant to the Ontario Business Corporations Act, and licensed as Electricity Distributor under the Ontario Energy Board Act, 1998 (the "Act").

Wellington North Power Inc. holds Electricity Distribution Licence ED-2002-0511.

The Applicant undertakes the business of distributing electricity within the former Town of Mount Forest, Village of Arthur and the Village of Holstein, servicing approximately 3694 residential and general service customers. Wellington North Power's head office is located at 290 Queen Street West, in the Township of Wellington North in the former town of Mount Forest

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 10 of 219

- 2. Wellington North Power Inc. is applying to the Ontario Energy Board (the Board) pursuant to Section 78 of the Ontario Energy Board Act, 1998 for an Order or Orders approving just and reasonable rates for the distribution of electricity based on a 2014 incentive rate mechanism ("IRM") application, to be effective on May 1, 2014.
- Wellington North Power Inc. is applying for electricity distribution rates on the basis of Chapter 3 of the Filing Requirements for Electricity Transmission and Distribution Applications instructions issued July 17, 2013.
- 4. Wellington North Power Inc. has elected to use the 4<sup>th</sup> Generation Incentive Rate-setting ("4<sup>th</sup> Generation") as its rate-setting method for 2014 electricity distribution rates.
- 5. Specifically, Wellington North Power Inc. hereby applies for an order or orders granting distribution rates updated and adjusted in accordance with Chapter 3 of the Filing Requirements for Transmission and Distribution Application updated July 17, 2013, including the following:
  - a. The disposition of deferral and variance account principal balances as at December 31, 2012 along with the carrying charges projected to April 30, 2013 in accordance with the Report of the Board on Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR) July 31, 2009. Disposition of Group 1 accounts is being requested as the threshold test was exceeded as shown on worksheet 6 "Billing Determinants for Def-Var" of the Rate Generator model. Disposition is being requested over a 2-year period;
  - Approval for an adjustment to the Retail Transmission Service Rates approved in WNP's 2013 IRM application (EB-2012-0174) as per Guideline (G-2008-0001) on Retail Transmission Service Rates – October 22, 2008, revision 4.0 June 28, 2012);
  - c. Approval of Incremental Capital funding for the replacement of a Distribution Substation commencing in 2014 with a total estimated cost of \$1,600,000;

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 11 of 219

- d. The continuation of existing Specific Service Charges and Loss Factors as approved in WNP's 2012 Cost of Service application (EB-2011-0249);
- e. The continuation of the Low Voltage Service Rate as approved in WNP's 2012 Cost of Service application (EB-2011-0249).
- 6. The Revenue-Cost ratio adjustments were approved in Wellington North Power Inc's 2012 Cost of Service application (EB-2011-0249), so no further adjustments are required in 2014.
- 7. This Application is supported by written evidence that may be amended from time to time, prior to the Board's final decision on this Application.
- 8. The Applicant requests that, pursuant to Section 34.01 of the Board's *Rules of Practice* and *Procedure*, that this IRM 4<sup>th</sup> Generation Incentive Rate Setting Application proceeding be conducted by way of written hearing.
- 9. The Applicant requests that a copy of all documents filed with the Board in this proceeding be served on the Applicant as follows:

Wellington North Power Inc. 290 Queen St West Mount Forest, ON, NOG 2L3

Attention:

Richard Bucknall

Regulatory Compliance Analyst

Tel:

519-323-1710

E-mail: rbucknall@wellingtonnorthpower.com

- 10. The scope of the application for 4<sup>th</sup> Generation Incentive Rate Setting Application for Electricity Distribution Rates for the 2014 year includes:
  - Manager's Summary;
  - 2014 IRM Rate Generator model version 2.3;
  - IRM Revenue Cost Ratio Adjustment Workform version 2.0;
  - Tax Sharing Model for IRM Applications version 1.1;
  - RTSR Adjustment Workform version 4.0;
  - 2014 Incremental Capital Project Summary version 1.0;

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 12 of 219

- 2014 Incremental Capital Workform version 1.1
- WNP's 2013 Decision and Order;
- Proposed 2014 Tariff of Rates and Charges;
- Customer Bill Impacts;
- Copy of Revenue Requirement Work Form (RRWF) from WNP's 2012 Cost of Service Application (EB-2011-0249);
- 3<sup>rd</sup> Party Substation Condition Assessment Study.

DATED at Mount Forest, Ontario, this 26<sup>th</sup> day of September 2013.

Wellington North Power Inc.

Original signed by

Judith Rosebrugh
President and CEO
Wellington North Power Inc.

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 13 of 219

# The Applicant:

Wellington North Power Inc. contact information for matters relating to this application is:

Position:

President & CEO

Name:

Judy Rosebrugh

Company:

Wellington North Power Inc

Contact Details:

Phone: 519-323-1710

Fax:

519-323-2425

E-mail: jrosebrugh@wellingtonnorthpower.com

Position:

Regulatory Compliance Analyst

Name:

Richard Bucknall

Company:

Wellington North Power Inc.

Contact Details:

Phone: 519-323-1710

Fax:

519-323-2425

E-mail: rbucknall@wellingtonnorthpower.com

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment

Page 14 of 219

Manager's Summary

Wellington North power Inc (WNP) has relied on the following Board's Decision and Orders as

the basis for the electricity distribution rates, service classifications and rate classifications for

inputs to the 2014 IRM rate generator model:

(a) Decision and Order EB-2011-0249 (WNP's Cost of Service application for 2012 rates),

and

(b) Decision and Order EB-2012-0174 (WNP's IRM application for 2013 rates).

WNP has elected to use the 4th Generation Incentive Rate-setting ("4th Generation") as its rate

-setting method and, in applying for 2014 electricity distribution rates, has referred to Chapter

3 of the Filing Requirements for Electricity Transmission and Distribution Applications

instructions issued July 17, 2013.

(On July 17, 2013 the Board issued updates to Chapters 1, 2, 3 and 5 to the Filing

Requirements for Transmission and Distribution Applications. On August 22, 2013 the Board

updated the 2013 4th Generation Incentive Rate Setting Index Model V2.3. The model is a

guide for electricity distributors in the preparation and filing of their incentive regulation

mechanism application to adjust distribution rates for 2014.)

The schedule of Proposed Rates and Charges in this Application is provided in Exhibit 6 of this

application. The proposed rates reflect an adjustment to the rates previously approved by the

Board in the Decision and Order issued by the Board on April 14, 2013, case number EB-

2012-0174.

The persons affected by this application are the ratepayers of Wellington North Power Inc.

**Elements of the Application:** 

a. A price cap adjustment;

b. Distribution Rate Adjustments;

c. The approval for the proposed adjustments to the current Retail Transmission Service

Rates as approved in EB-2012-0174;

d. Deferral and Variance Account Rate Riders for 2014 for 2 years;

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment

Page 15 of 219

e. Deferral and Variance Account Analysis;

f. The continuation of existing Specific Service Charges and Loss Factors as approved in

EB-2011-0249;

g. The continuation of the Low Voltage Service Rate as approved in EB-2011-0249;

h. Rate Mitigation;

i. Incremental Capital;

j. Z-Factor;

k. LRAM Disposition;

I. Regulatory Accounting Policy Changes; and

m. Summary of Proposed Rates and Bill Impacts.

The details of these elements are provided in the models that accompany this application and

are summarized below:

**Price Cap Adjustment:** 

The Gross Domestic Product Implicit Price Index for Final Domestic Demand (GDP-IPI) as

published by Statistics Canada will be used as a price escalator for IRM applications. In

Chapter 3 of the Filing Requirements it states that for rates effective May 1, 2014, the GDP-IPI

will be the 1.6 annual percentage change for the calendar year (section 3.2.1. "Annual

Adjustment Mechanism", page 6)

WNP has included the default price cap adjustment of 0.48%. This calculation is based upon a

default price escalator of 1.60%, an x-factor of 0.72% and the proxy stretch factor of 0.4%.

The Price Cap Adjustment is therefore set by default in the model to 0.48%.

The Applicant acknowledges that the Board may update WNP's Rate Generator Model with

the updated price escalator and adjust the stretch factor as part of the application process.

Reference: IRM Rate Generator model:

WellingtonNorth EB-2013-0178 2014 IRM Rate Generator V2.3.xlsm worksheet 9. Rev2Cost\_GDPIPI

Wellington North Power Inc. **OEB File No: EB-2013-0178** 

4th Generation IRM Adjustment

Page 16 of 219

**Distribution Rate Adjustments** 

WNP proposes distribution rate adjustment for May 1, 2014 for both the Monthly Fixed Service

Charge and Distribution Volumetric Rate for all classes reflecting the calculated values that are

generated by the 2014 IRM Rate Generator Model.

As discussed above the price cap index adjustment, currently set at the 2013 values, is 0.48%,

and within the model has been applied to current rates to yield WNP's proposed rates. Future

updates to components of the price cap index calculation, to be completed by Board Staff as

the updates become available, may impact the final price cap adjustment being applied to the

current model.

Reference: IRM Rate Generator model:

WellingtonNorth EB-2013-0178 2014 IRM Rate Generator V2.3.xlsm worksheet 9. Rev2Cost GDPIPI

Retail Transmission Service Rates:

WNP is applying for an adjustment of its Retail Transmission Service Rates (RTSR) based

upon a comparison of historical transmission costs adjusted for new Uniform Transition Rates

(UTR) levels and revenues generated from existing RTSRs. This approach is expected to

minimize variances in the USoA Accounts 1584 and 1586.

On June 28, 2012, the Ontario Energy Board issued revision 4.0 of the Guideline G- 2008-

0001 Electricity Distribution Retail Transmission Service Rates (the "Guideline"). This

Guideline outlines the information that the Board requires electricity distributors to file when

proposing adjustments to their retail transmission service rates. The guideline was used to

adjust WNP's RTSR's for 2014.

WNP has calculated the adjustments to the current Retail Transmission Service Rates as

approved in EB-2012-0174. Detailed calculations may be found in the 2014 RTSR

Adjustments Workform that accompanies this application. The adjusted RTSR's have been

inputted into the 2014 Rate Generator Model, worksheet 11 "Proposed Rates."

The Applicant also requests the opportunity to update the RTSR's included in this IRM application should the RTSR's charged to WNP change before the rates applied for in this application are approved and in effect.

Reference: RTSR model:

WellingtonNorth EB-2013-0178 2014 RTSR MODEL V4.0 20130715.xlsm

#### **Deferral and Variance Account Rate Riders**

#### Background:

In its' 2013 IRM application, WNP did not request disposal of Group 1 accounts as the balance was \$47,056 and calculated to be below the Threshold Test at \$0.0005 per kWh. This was predominately as an outcome of the LDC filing a 2011 Cost of Service applying for 2012 rates where Deferral// Variance balances as at December 31, 2011 were approved for disposal.

WNP currently has the following Rate Riders which all have a sunset date of April 30, 2014:

Effective From	Effective To	Case Number
October 1, 2012	April 30, 2014	EB-2011-0249
October 1, 2012	April 30, 2014	EB-2011-0249
May 1, 2010	April 30, 2014	EB-2009-0253
October 1, 2012	April 30, 2014	EB-2011-0249
October 1, 2012	April 30, 2014	EB-2011-0249
May 1, 2011	April 30, 2014	EB-2010-0119
	October 1, 2012  October 1, 2012  May 1, 2010  October 1, 2012  October 1, 2012	October 1, 2012 April 30, 2014  October 1, 2012 April 30, 2014  May 1, 2010 April 30, 2014  October 1, 2012 April 30, 2014  October 1, 2012 April 30, 2014

Note: The above table excludes the Rate Rider for Smart Meter Entity Charge which is effective until October 31, 2018.

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment

Page 18 of 219

**Current Situation:** 

WNP is requesting final disposition of the balances in the Group 1 variance accounts that have

accumulated in 2012.

The "2014 Continuity Schedule" found in worksheet 5 of the IRM Rate Generator model, has

been completed as part of this application. Group 1 Accounts balance, including interest

projected to April 30, 2014, show a credit of (\$253,967).

WNP confirms that no adjustments were made were made to the deferral and variance

account balances that were previously approved by the Board in its last Cost of Service

application (EB-2011-0249) and most recent IRM proceeding (EB-2012-0174).

As per instruction #5 on the "2014 Continuity Schedule" in worksheet 5 of the IRM Rate

Generator model, WNP has not included Account 1595 account "Disposition and Recovery /

Refund of Regulatory Balances (2010)" because this recover is not complete. As per table

above, the Rate Rider associated to 2010 Deferral / Variance account disposition has a sunset

date of April 30, 2014 (EB-2009-0253).

Twelve months of Test Year data (metered kWh, metered kW, billed kWh, billed kW and

Distribution Revenue) that was approved in WNP's 2012 Cost of Service rate application (EB-

2011-0249) was inputted into worksheet 6 "Billing Det. for Def-Var" of the Rate Generator

model. In this model, the threshold test calculation in worksheet 6 yields the preset disposition

amount – the Threshold Test (Total Claim) amount of 0.001 per kWh. In completing worksheet

6, WNP does exceed the preset Threshold Test amount.

The table below demonstrates that WNP does exceed the preset Threshold Test value:

Threshold Test

Total Claim (including Account 1521, 1562 and 1568)

Total Claim for Threshold Test (All Group 1 Accounts)

Threshold Test (Total claim per kWh) 3

(\$253,989)

(\$253,967)

(0.0026)

As WNP's Deferral and Variance Account Group 1 Balances does exceed the Threshold Test limit (as illustrated above), WNP is requesting disposition of this balance and is seeking the approval of Rate Riders for 2014.

WNP is requesting disposition of the Deferral and Variance Account Group 1 balances through Rate Riders over a period of 2 years. The Applicant is requesting a 2-year disposition period because WNP is very concerned about current cash-flow as a consequence of the disposition of sizeable balances crediting customers as a result of recent OEB Decision and Orders, namely:

- The OEB's Decision and Order EB-2009-0253 of April 14, 2010 involved the disposition of Group 1 account balances with a value of \$753,360.16 over a four-year period commencing May 1, 2010, which equates to approximately \$188,340 per year being credited to customers. This 2010 Rate Rider is due to expire on April 30<sup>th</sup> 2014.
- The OEB's Decision and Order EB-2011-0249 of September 27, 2012 the disposition of Group 1 account balances with a value of \$851,153 over a nineteen (19) month period commencing October 1, 2012, which equates to approximately \$537,570 per year being credited to customers. This 2012 Rate Rider is due to expire on April 30<sup>th</sup> 2014.

Therefore, the Applicant is requesting a 2-year disposition for Deferral and Variance Account Group 1 balances, as identified in the WNP's 2014 IRM application, which will alleviate the cash-flow concerns that currently challenge the LDC.

The proposed Rate Riders are shown in the table below in the shaded cells:

Please indicate the Rate Rider Recovery P	eriod (in years)	2						
Rate Class	Unit	Billed kWh	Billed kW	Balance of Accounts Allocated by kWh/kW (RPP) or Distribution	Deferral/Variance Account Rate Rider	Allocation of Balance in Account 1588	Billed kWh or Estimated kW for Non-RPP	Global Adjustment Rate Rider
RESIDENTIAL	\$/kWh	24,876,519		5,082	0.0001	(14,882)	3,625,931	(0.0021)
GENERAL SERVICE LESS THAN 50 KW	\$/kWh	10,703,832		2,184	0.0001	(5,888)	1,434,587	(0.0021)
GENERAL SERVICE 50 TO 999 KW	\$/kW	19,816,501	50,517	4,005	0.0396	(74,652)	46,367	(0.8050)
GENERAL SERVICE 1,000 TO 4,999 KW	\$/kW	42,769,242	97,039	8,595	0.0443	(175,542)	97,039	(0.9045)
UNMETERED SCATTERED LOAD	\$/kWh	3,969		1	0.0001	(3)	663	(0.0021)
SENTINEL LIGHTING	\$/kW	29,261	80	11	0.0703	(120)	80	(0.7532)
STREET LIGHTING	\$/kW	711,946	1,907	143	0.0374	(2,922)	1,907	(0.7660)
microFIT								
Total		98,911,269	149,544	20,020		(274,009)	5,206,574	

Reference: IRM Rate Generator model:

WellingtonNorth EB-2013-0178 2014 IRM Rate Generator V2.3.xlsm, worksheet 8. Calculation of Def-Var RR

# **Deferral and Variance Account Analysis**

The table below summarises the variances between WNP's 2012 Audited Financial Statements and the LDC's filed RRR reporting for the 2012 year-end. This information is recorded in the IRM Generator model, worksheet 5. "2014 Continuity Schedule":

				Finar	nce Balance	at 31-Dec-2012	
Item	Account	Account No.	RRR Filing at 31- Dec-2012	Principal	Interest	Principal + Interest	Variance
			Α	В	С	D = B + C	E = A -D
(a)	LV Variance Account	1550	(\$40,445)	(\$40,216)	(\$230)	(\$40,446)	\$1
(b)	RSVA - Wholesale Market Service Charge	1580	(\$255,827)	(\$251,680)	(\$4,149)	(\$255,829)	\$2
(c)	RSVA - Retail Transmission Network Charge	1584	\$11,932	\$12,058	(\$126)	\$11,932	(\$0)
(d)	RSVA - Retail Transmission Connection Charge	1586	(\$64,774)	(\$60,203)	(\$4,573)	(\$64,776)	\$2
(e)	RSVA - Power (excluding Global Adjustment)	1588	\$396,592	\$358,726	\$9,872	\$368,598	\$27,994
(f)	RSVA - Global Adjustment	1589	(\$204,951)	(\$264,863)	(\$3,955)	(\$268,818)	\$63,867
(g)	Recovery of Regulatory Asset Balances	1590	\$0	\$0	\$0	\$0	\$0
(h)	Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>5</sup>	1595	\$103	\$4,772	(\$4,668)	\$104	(\$1)
(i)	Deferred Payments in Lieu of Taxes	1562	\$0	\$0	(\$22)	(\$22)	\$22
,						Total Variance	\$91,886

Upon reviewing the above table, the accounts with a variance between the RRR filings compared to the Rate Generator 2014 Continuity Schedule of between (\$2) to \$2, this is as a result of numerical rounding in the Rate Generator model. An explanation for the accounts where there is a greater variance is explained below:

#### • Item (e) - Account 1588:

WNP continued to use the 1588-sub account to record the charges for GA-RPP customers but did not include this amount in the 1588-RSVA- Power during the reporting period. Consequently, the RRR filing at December 31, 2012 was overstated by \$27,994.

This discrepancy was identified during WNP's preparation of its 2014 IRM data and the LDC has reflected an adjustment in its' Quarter 2 2013 RRR filing that was submitted on August 23, 2013.

Wellington North Power Inc. OEB File No: EB-2013-0178

4th Generation IRM Adjustment

Page 21 of 219

Item (f) - Account 1589:

When Account 1589 was introduced in 2012 to record the charges from the market for

Global Adjustment Non-RPP customers, the opening balance in the 1588-sub account

was not transferred to Account 1589. Consequently, the RRR filing at December 31,

2012 was understated by \$63,867.

This discrepancy was identified during WNP's preparation of its 2014 IRM data and the

LDC has reflected an adjustment in its' Quarter 2 2013 RRR filing that was submitted

on August 23, 2013.

Item (i) Account 1562:

In WNP's 2012 Board-Approved Cost of Service rate application (EB-2011-0249), the

LDC filed SIMPIL models and Continuity Schedules that were approved as part of the

Application. The projected Interest for the period of 1st Jan 2012 to 30th April 2012 of

\$22 as approved by the Board has been incorporated into the company financial

statements but not recorded in the RRR filings. WNP will include this balance in its

next RRR filings for the Quarter 3 of 2013.

Reference: IRM Rate Generator model:

WellingtonNorth EB-2013-0178 2014 IRM Rate Generator V2.3.xlsm worksheet 5. 2013 Continuity Schedule

**Shared Tax Savings** 

The Board has previously determined that the impacts of known legislated tax changes will be

reflected in the 2014 IRM adjustment and that the savings from these adjustments will be

shared on a 50/50 basis between the distributor and its customers.

WNP has completed the 2014 Tax Sharing Model V1.1. The results of the model show that

there are zero monies in tax savings for 2014. A copy of the completed model accompanies

and forms part of this application.

Reference: IRM Tax Sharing model:

WellingtonNorth EB-2013-0178 2014 IRM Tax Sharing Model V1.1.xlsm

#### **Continuance of Rate Riders**

Pursuant to the Decision in EB-2011-0249, WNP will continue with the Rate Riders for which the sunset date has not yet been reached. However, WNP currently has the following Rate Riders which all have a sunset date of April 30, 2014:

Rate Rider	Effective From	Effective To	Case Number
Disposition of Residual Historical Smart	October 1, 2012	April 30, 2014	EB-2011-0249
Meter Costs			
Recovery of Stranded Meter Assets	October 1, 2012	April 30, 2014	EB-2011-0249
Disposition of Deferral / Variance Account	May 1, 2010	April 30, 2014	EB-2009-0253
(2010)			
Disposition of Deferral / Variance Account	October 1, 2012	April 30, 2014	EB-2011-0249
(2012)			
Disposition of Global Adjustment Sub-	October 1, 2012	April 30, 2014	EB-2011-0249
Account (2012) applicable only for Non –			
RPP customers			
Recovery of Lost Revenue Adjustment	May 1, 2011	April 30, 2014	EB-2010-0119
Mechanism (LRAM) / Shared Savings			
Mechanism (SSM)			

Note: The above table excludes the Rate Rider for Smart Meter Entity Charge which is effective until October 31, 2018.

## In this IRM application, WNP is:

- <u>Not</u> requesting any revisions to existing Rate Riders. As per table above, the current Rate Riders (with the exception of Smart Meter Entity Charge) have a sunset date of April 30, 2014;
- Not requesting the removal of any Rate Riders; and.
- Requesting "new" Rate Riders for disposition of Group 1 Deferral / Variance account balances as described above. WNP is requesting disposition of the Deferral and Variance Account Group 1 balances through Rate Riders over a period of 2 year. The proposed Rate Riders are shown in the table below in the shaded cells:

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 23 of 219

Please Indicate the Rate Rider Recovery Pr	eriod (in years) [	2						
Rate Class	Unit	Billed kWh	Billed kW	Balance of Accounts Allocated by kWh/kW (RPP) or Distribution	Deferral/Variance Account Rate Rider	Allocation of Balance in Account 1588	Billed kWh or Estimated kW for Non-RPP	Global Adjustment Rate Rider
RESIDENTIAL	s/kwh	24,876,519		5,082	0.0001	(14,882)	3,625,931	(0.0021)
GENERAL SERVICE LESS THAN 50 KW	S/kWh	10,703,832		2,184	0.0001	(5,888)	1,434,587	(0.0021)
GENERAL SERVICE 50 TO 999 KW	S/kW	19,816,501	50,517	4,005	0.0396	(74,652)	46,367	(0.8050)
GENERAL SERVICE 1,000 TO 4,999 KW	\$/kW	42,769,242	97,039	8,595	0.0443	(175,542)	97,039	(0.9045)
UNMETERED SCATTERED LOAD	\$/kWh	3,969		1	0.0001	(3)	663	(0.0021)
SENTINEL LIGHTING	\$/kW	29,261	80	11	0.0703	(120)	80	(0.7532)
STREET LIGHTING	\$/kW	711,946	1,907	143	0.0374	(2,922)	1,907	(0.7660)
microFIT								
Total		98,911,269	149,544	20,020		(274,009)	5,206,574	

References: Revenue to Cost Ratio model and IRM Rate Generator model:

WellingtonNorth EB-2013-0178 2014 IRM Revenue Cost Ratio Adjustment Wrkfrm V2.0.xlsm

WellingtonNorth EB-2013-0178 2014 IRM Rate Generator V2.3.xlsm, worksheet 8. Calculation of Def-Var RR

#### **Specific Service Charges and Loss Factors**

Pursuant to the Decision in EB-2011-0249, WNP will continue with the Specific Service Charges and Loss Factors that were approved in that proceeding.

#### **Low Voltage Service Charges**

Pursuant to the Decision in EB-2011-0249, WNP will continue with the current low voltage service rates that were approved in that proceeding.

#### Incremental Capital Module

Wellington North Power Inc. is applying for incremental capital.

Wellington North Power Inc. acquired the services of Costello Associates Inc. to provide supporting technical information and budgetary estimates for an asset condition assessment of six of its Distribution Substations. A detailed report with findings and recommendation was issued to Wellington North Power Inc. in June 2013 and is included in Exhibit 5 of this rate application.

In this application WNP has completed the Incremental Capital module provided by OEB. The Threshold Test produced a value of \$609,572. WNP's total nondiscretionary capital budget for 2014 is \$1,996,000 which includes \$1,600,000 to rebuild its MS2 Substation at 398 Foster Street in Mount Forest

WNP's Threshold CapEx is calculated as \$609,572 in the Incremental Capital Model which results in \$1,386,427 of Incremental Capital CAPEX when compared to the total Capital Budget for 2014. WNP is therefore requesting approval of an incremental revenue requirement of \$105,665 per year to be recovered from customers in a Rate Rider until the LDC's next Cost of Service application or until the end of the current IRM cycle. (Note: in completing the 2014 Incremental Capital Project workform (version 1.0), WNP has stated that it is in its 2<sup>nd</sup> year of the IRM cycle – worksheet "Incremental Capital Summary"). WNP has chosen the option of a fixed and variable rate rider (option A) for the recovery period as shown on Sheet "F1.1 "Incr Cap RRider Opt A FV". A copy of the Incremental Capital Module has been submitted with this application and is illustrated in Exhibit 5.

Below is the calculation of the Incremental Capital Rate Rider – Option A: Fixed and Variable:

Rate Class	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Total Revenue by Rate Class
	A	В	C	D = \$N * A	E = \$N * B	F = \$N * C	G = D + E + F
Residential	30.8%	20.3%	0.0%	\$32,554.12	\$21,415 52	\$0.00	\$ 53,969 64
General Service Less Than 50 kW	10.1%	7 9%	0.0%	\$10,694.88	\$8,349.18	\$0.00	\$ 19,044.06
General Service 50 to 999 kW	5.8%	0.0%	8.1%	\$6,150.11	\$0.00	\$8,596.64	\$ 14,746.76
General Service 1,000 to 4,999 kW	4.8%	0.0%	8.1%	\$5,026 62	\$0.00	\$8,526 91	\$ 13,553.53
Unmetered Scattered Load	0.0%	0.0%	0.0%	\$10.08	\$2.68	\$0.00	<b>5</b> 12.76
Sentinel Lighting	0.0%	0.0%	0.1%	\$49 68	\$0.00	\$71.74	\$ 121.42
Street Lighting	3.3%	0.0%	0.7%	\$3,514.47	\$0.00	\$702.29	\$ 4,216.76
				\$57,999.97	\$29,767.38	\$17,897.59	\$ 105,664.93

References: Incremental Capital Workform and Incremental Capital Project:

WellingtonNorth EB-2013-0178 2014 IRM3 Incremental Capital Wrkfrm V1.1.xlsm WellingtonNorth EB-2013-0178 2014 Incremental Capital Project V1.0.xlsm

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 25 of 219

#### **Z** Factor

Wellington North Power Inc. is not applying for a Z-factor in this application.

#### **LRAMVA** Disposition

Wellington North Power Inc. is not applying for an LRAM Disposition in this application because the Applicant deems the balance to date is insignificant.

#### Regulatory Accounting Policy Changes;

As per section 3.2.10, "Regulatory Accounting Policy Changes to the Deprecation Expense and Capitalization Policies" of the OEB's Filing Requirements for Electricity Distribution Rate Applications (revised July 17, 2013), Wellington North Power Inc. acknowledges the following:

- a) The Applicant remains on CGAAP accounting methodology; and
- b) The Applicant implemented the regulatory changes for depreciation expense and capitalization policies on January 1, 2012 as reflected in the LDC's last cost of service application (EB-2011-0249). In application EB-2011-0249, WNP provided:
  - An updated version of its' capitalization policy and;
  - Analysis demonstrating the transfer to the revised deprecation rates. WNP adopted the mid-range "Kinectrics" depreciation rates in January 2012 (as per WNP's Cost of Service application EB-2011-0249, Exhibit 11, Schedule 3, table 11-9 page 837))

(Reference: The Asset Depreciation Study for the OEB by Kinectrics Inc. (dated July 8, 2010 – Report No.: K-418033-RA-001-R000))

#### **Summary of Proposed Rates and Bill Impacts**

Wellington North Power Inc. has completed the 2014 IRM models and workforms in accordance with the instructions provided by the Board. The service and rate classifications, together with the associated electricity distribution rates included in the 2014 IRM models, are those approved by the Board in its Decision and Orders in EB-2011-0249 (Cost of Service) and EB-2012-0174 (IRM).

The table below illustrates the impacts of the rate adjustments and overall bill impacts proposed in this application for the default customer profile in each customer class:

			Distributi	on Charges	Chan Distrib Cha	oution	Tota	Total Bill Change		
kWh	kW	Load Factor	Current Charge	Proposed Charge	\$	%	Current Total Bill	Proposed Total Bill	\$	%
800			\$35.91	\$41.36	5.45	15.18%	\$125.57	\$130.46	4.89	3.89%
2,000			\$91.88	\$90.89	-0.99	-1.08%	\$313.07	\$310.61	-2.46	0.79%
90,009	137	90%	\$1,307.03	\$1,318.19	11.16	0.85%	\$10,778.42	\$10,752.16	26.26	0.24%
81,558	1,494	90%	\$10,959.45	\$10,825.35	134 10	1.22%	\$114,656.94	\$114,078.72	-578.22	0.50%
462			\$25.10	\$29.10	4.00	15.94%	\$76.45	\$80.10	3.65	4.77%
657	1	90%	\$28.59	\$29.04	0.45	1.57%	\$97.33	\$97.57	0.24	0.25%
03,806	158	90%	\$1,587.79	\$1,877.02	289.23	18.22%	\$12,353.38	\$12,614.45	261.07	2.11%
	Acceptant						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Q12,021110	202/07	
2 2 2 2 2 2	800 2,000 0,009 31,558 462 657	800 2,000 0,009 137 31,558 1,494 462 657 1	800   2,000   0,009   137   90%   61,558   1,494   90%   462   657   1   90%	kWh kW Load Current Charge \$800 \$35.91 \$91.88 \$0,009 137 90% \$1,307.03 \$1,558 1,494 90% \$10,959.45 \$25.10 \$657 1 90% \$28.59	kWh kW Load Charge Charge 800 \$35.91 \$41.36 \$90.89 \$1,307.03 \$1,318.19 \$1,558 1,494 90% \$10,959.45 \$10,825.35 \$25.10 \$29.10 \$657 1 90% \$28.59 \$29.04	Charge   Charge   Saturday   Sa	Charges   Charges   Charges   Charges   Charge   State   Charge   Charge   State   Charge   Charge   State   Charge   State   State	kWh         kW         Load Factor         Current Charge         Proposed Charge         \$         %         Current Total Bill           800         \$35.91         \$41.36         5.45         15.18%         \$125.57           2,000         \$91.88         \$90.89         -0.99         -1,08%         \$313.07           0,009         137         90%         \$1,307.03         \$1,318.19         11.16         0.85%         \$10,778.42           \$1,558         1,494         90%         \$10,959.45         \$10,825.35         -134,10         -1.22%         \$114,656.94           462         \$25.10         \$29.10         4.00         15.94%         \$76.45           657         1         90%         \$28.59         \$29.04         0.45         1.57%         \$97.33	kWh         kW         Load Factor         Current Charge         Proposed Charge         \$         %         Current Total Bill Total	kWh         kW         Load Factor         Current Charge         Proposed Charge         \$         Current Total Bill         Proposed Total Bill         \$           800         \$35.91         \$41.36         5.45         15.18%         \$125.57         \$130.46         4.89           2,000         \$91.88         \$90.89         -0.99         -1,08%         \$313.07         \$310.61         -2.46           0,009         137         90%         \$1,307.03         \$1,318.19         11.16         0.85%         \$10,778.42         \$10,752.16         26.26           11,558         1,494         90%         \$10,959.45         \$10,825.35         -134,10         -1.22%         \$114,656.94         \$114,078.72         -578.22           462         \$25.10         \$29.10         4.00         15.94%         \$76.45         \$80.10         3.65           657         1         90%         \$28.59         \$29.04         0.45         1.57%         \$97.33         \$97.57         0.24

The comments below should be considered when reviewing the above table:

- The table is based upon the output produced from worksheet 14. "Bill Impact" of the IRM Generator model (v2.3) as issued by the Board. For each rate class, a default customer's profile was populated into the input cells (e.g. kWh consumption, kW demand) and the output recorded in the above table;
- Service Charge the changes reflect the application of the stretch factor percentage increase;
- Fixed Rate Riders:

Residential and General Service <50 kW customer classes <u>currently</u> include Smart Meter Disposition Recovery (SMDR) and Stranded Meter Assets recovery. These specific rate riders have a sunset date of 30-April-2014 and therefore not included in the May 1 2014 proposed rates.

In this application, WNP is requesting a Fixed and Volumetric Rate Rider as part of the Incremental Capital Module recovery. This fixed-portion Rate Rider is lower than the amount being collected for Smart Meter and Stranded Meter recovery.

Therefore, when comparing the Fixed Rate Riders, there is a reduction in the dollar value for both Residential and General Service <50kW customer classes as a consequence of the removal of the Smart Meter Disposition Recovery (SMDR) and Stranded Meter Assets Rate Riders. The table illustrates the change for an average Residential consumer with a monthly consumption of 800kWh

Fixed Rate Riders:	Measure	Current	Proposed	Change	%
Smart Meter	\$	0.99	HE WELL	11111111	
Stranded Meter	\$	1.83			
Incremental Capital - Fixed Rate Rider portion	\$		0.86		
		2.82	0.86	-1.96	-69.50%

#### Volumetric Rate Riders:

The current Volumetric Rate Riders reflects the LRAM disposition as per case (EB-2010-0119) and has a sunset date of 30-April 2014 and therefore not included in the May 1 2014 proposed rates.

In this application, WNP is requesting a Fixed and Volumetric Rate Rider as part of the Incremental Capital Module recovery. The change in the volumetric rate rider between current and proposed, for an average Residential consumer with a monthly consumption of 800kWh is shown below:

Volumetric Rate Riders:	Measure	Current	Proposed	Change	%
LRAM Disposition	\$/kWh	0.0004			7-71
Incremental Capital - Variable Rate Rider portion	\$/kWh		0.0009		
		0.0004	0.0009	0.0005	125.00%

 Distribution Volumetric Rate Riders (e.g. Rate Riders for Deferral/Variance Account Disposition.)

In this 2014 IRM application, WNP is requesting disposal of Group 1 balances as at 31-December 2012. This component represents the biggest "change" on the customers' electricity bill when reviewing the bill impacts. This "change" is because:

For Residential and General Service <50kW customers, the current Deferral and</li>
 Variance account disposition Rate Riders are crediting the customer; whereas the

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 28 of 219

proposed Rate Rider is a debit. This "change" is illustrated in the table below for a Residential consumer with a monthly consumption of 800kWh:

Total Deferral/Variance Account Rate Riders:	Measure	Current	Proposed	Change	%
Current	\$/kWh	-0.0085	William .	Silve III	100
Proposed (as per 2014 IRM Application)	\$/kWh		0.0001		T. I. I. V.
		-0.0085	0.0001	0.0086	-101.18%

- For General Service 50 to 999kW, General Service 1000 to 4999kW, Sentinel Lights and Streetlights customer classes, the Global Adjustment (GA) to Non RPP Rate Rider is applied, which as result, means WNP is applying a credit to these customer classes.
- It should be noted that:
  - o All of WNP's residential customers are billed TOU;
  - All General Service <50kW customers are billed on TOU;</li>
  - General Service 50-999 kW are billed on Spot Market Prices (with the exception of 11 accounts that are billed on RPP rates);
  - General Services 1000 4999 kW are billed on Spot Market Prices;
  - o Street Lights are billed on Spot Market Prices; and
  - o Sentinel and Unmetered Scattered Load are billed on RPP rates.

The tables on the following pages illustrate the bill impact for a Residential and a General Service <50kW customer

# Residential Customer - Bill Impact

The table below shows the bill impact for a Residential customer with a monthly consumption of 800 kWh:

Rate Class RESIDENT	IAL										
Loss Factor	1.0716										
Consumption kWh	800										
if Billed on a kW basis: Demand kW			=====	1							
Load Factor		Upd	ate Bill Impacts								
	Curr	ent Board Ap	proved	Г		Propose	be			Impact	U.
	Rate	Volume	Charge	ır	Rate	Volume		Charge		4800	Intraviones
Monthly Service Charge	\$ 18.05		\$ 18 05	l  -	(5) S 18 14		S	18.14	-	\$ Change 0.09	% Change 0.50%
Distribution Volumetric Rate	\$ 18.05 \$ 0.0181	800	\$ 14.48		\$ 18 14 \$ 0.0182	800	\$	14.56	S	0.09	0.55%
Fixed Rate Riders	\$ 2.82	1	\$ 2.82		\$ 0.0182	000	S	0.86	S	1.96	-69.56%
Volumetric Rate Riders	0.0004	800	\$ 0.32	П,	0.0009	800	5	0.69	S	0.37	115.25%
Sub-Total A (excluding pass through)	0.0004	000	\$ 35.67	$\vdash$	0.0000	-000	5	34.25	-5	1.42	-3.99%
Line Losses on Cost of Power	\$ 0.0839	57	\$ 481	1 1	0 0839	57	\$	4 81	S		0.00%
Total Deferral/Variance Account Rate Riders	-0,0085	800	-\$ 680		0.0001	800	\$	0.08	s	6 88	-101 18%
Low Voltage Service Charge	\$ 0.0018	800	\$ 1.44	1	0.0018	800	S	1.44	5	-	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	1	0.7900	1	S	0.79	\$		0.00%
Sub-Total B - Distribution (includes Sub-Total A)			\$ 35.91				\$	41.36	5	5.46	15.20%
RTSR - Network	\$ 0 0069	857	\$ 592	3	0.0065	857	\$	5 58	-\$	0.34	-5 73%
RTSR - Connection and/or Line and Transformation Connection	\$ 0 0045	857	\$ 386	5	0 0041	857	s	3 55	-S	0 30	-7 90%
Sub-Total C - Delivery (including Sub-Total B)	6		\$ 45.68				\$	50.49	\$	4.81	10.54%
Wholesale Market Service Charge (WMSC)	\$ 0 0044	857	\$ 3.77	9	0 0044	857	\$	3 77	\$	*	0 00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0012	857	\$ 103	3		857	S	1 03	\$		0 00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	9		1	\$	0.25	S	9	0.00%
Debt Retirement Charge (DRC)	\$ 0,0070	800	\$ 5.60	8		800	\$	5 60	\$	8	0.00%
TOU - Off Peak TOU - Mid Peak	\$ 0.0670	512	\$ 34.30	\$		512	\$	34.30	\$		0 00%
TOU - Mid Peak	\$ 0 1040 \$ 0 1240	144	\$ 14.98	9		144	S	14.98	\$	5	0 00%
	\$ 0.1240	144	\$ 17.86	_ 3	0.1240	144	S	17.86	1.9		0.00%
Total Bill on TOU (before Taxes)			\$ 123.47				\$	128.28	\$	4.81	3.90%
HST	13%		\$ 16.05	1	13%		\$	16.68	\$	0.63	3 90%
Total BIII (including HST)			\$ 139.52				\$	144.96	\$	5.44	3.90%
Ontario Clean Energy Benefit 1	1 1		<b>\$</b> 13.95				-\$	14.50	\$	0.55	3.94%
Total Bill on TOU (Including OCEB)			\$ 125.57				\$	130.46	1 8	4.89	3.89%

# General Service <50kW Customer - Bill Impact

The table below shows the bill impact for a General Service <50kW customer with a monthly consumption of 2,000kWh:

Rate Class GENER	AL SERVIC	E LESS T	HAN 50 KW										
Loss Factor		1.0716											
Consumption kW	h	2,000											
If Billed on a kW basis:  Demand kW			6000		1								
Load Factor			Upd	ate 8	iii impacts								
			ent Board-Ap					Propose	d			Impact	
		Rate	Volume		Charge		Rate	Volume		Charge			N C1
Monthly Service Charge	S	38 32		S	38 32	S	38 50	1	s	(\$)	\$	5 Change 0 18	% Change 0 47%
Distribution Volumetric Rate	5	0 0164	2.000	200	38 32	5	0.0165	2 000	S	33 00	S	0.20	0 619
Fixed Rate Riders	S	19.15	2,000	9	19 15	5	1.82	2,000	S	1.82	s	17.33	-90.489
Volumetric Rate Riders	3	0 0022	2.000	S	4.40	3	0.0008	2.000	S	1.82	-5  -\$	2.84	-64.55%
Sub-Total A (excluding pass through)	_	0.0022	2,000	S	94.67	+	0.0008	2,000	\$	74.88	-5	19.79	-20.90%
Line Losses on Cost of Power	5	0.0839	143	S	12.02		0 0839	143	S	12.02	\$	19./9	0.00%
Total Deferral/Variance	,				12 02	,	0.0039	143	_				
Account Rate Riders		-0 0093	2,000	-5	18.60		0.0001	2,000	\$	0.20	\$	18.80	-101.089
Low Voltage Service Charge	s	0.0015	2,000	\$	3 00	S	0.0015	2.000	s	3.00	s	_	0.00%
Smart Meter Entity Charge	1 -	0.7900	2,000	S	0.79	S	0.7900	2,000	S	0.79	S	_	0.00%
Sub-Total B - Distribution		0.7000			77.00	-	0,7000			1 0			
(includes Sub-Total A)				\$	91.88				\$	90.89	-\$	0.99	-1.07%
RTSR - Network	S	0 0064	2,143	S	13 72	S	0.0060	2,143	\$	12.93	-S	0 79	-5 73%
RTSR - Connection and/or Line and fransformation Connection	s	0.0038	2,143	S	8.14	s	0.0035	2,143	\$	7 50	-\$	0 64	-7 90%
Sub-Total C - Delivery				\$	113.74				\$	111.32	-\$	2.42	-2.12%
(including Sub-Total B)				•	113.74				•	111.32		2.42	-2.12
Wholesale Market Service Charge (WMSC)	s	0.0044	2,143	s	9.43	\$	0.0044	2,143	S	9.43	\$	21	0.00%
Rural and Remote Rate Protection (RRRP)	\$	0.0012	2,143	\$	2 57	\$	0.0012	2,143	5	2 57	S	€ 1	0.009
Standard Supply Service Charge	\$	0.2500	1	\$	0.25	\$	0.2500	ī	\$	0 25	\$	*0	0.00%
Debt Retirement Charge (DRC)	\$	0.0070	2,000	\$	14 00	\$	0.0070	2.000	\$	14.00	S	*	0.00%
TOU - Off Peak	S	0.0670	1 280	\$	85 76	\$	0.0670	1 280	\$	85.76	S	*	0.00%
TOU - Mid Peak	\$	0 1040	360	\$	37 44	\$	0 1040	360	\$	37 44	S	*:	0.00%
TOU - On Peak	S	0.1240	360	\$	44.64	\$	0.1240	360	S	44.64	\$		0.00%
Total Bill on TOU (before Taxes)				\$	307.83	District of the last			5	305.41	-\$	2.42	-0.787
HST		13%		\$	40.02		13%		\$	39 70	-\$	0.31	-0.78%
Total Bill (including HST)		1370		5	347 85		1370		\$	345 12	-\$	2 73	-0.789
Ontario Clean Energy Benefit 1	ĺ	1		-\$	34 78				\$	34.51	\$	0.27	-0.789
Total Bill on TOU (including OCEB)	1	- 1		\$	313.07				•	310.61	2.	2.48	-0.79%

# **Rate Mitigation**

Wellington North Power Inc. does not propose any Rate Mitigation in this application.

# **Notice of Application**

Wellington North Power Inc. traditionally publishes the application information in the weekly local newspaper with the highest paid circulation in the LDC's service territory, and the Applicant is proposing to continue that process.

The characteristics of this newspaper are:

Newspaper: "The Confederate"

Frequency: Weekly Language: English

Subscription: Paid publication

Circulation: 2,307 (source: http://www.newspaperscanada.ca/database/member/433)

#### **Cost Allocation**

Wellington North Power Inc. is not proposing any changes to the Revenue to Cost ratios that were approved in the Decision and Order EB-2011-0249 – the LDC's 2012 Cost of Service application.

The Revenue to Cost ratios that were reviewed and approved in WNP's 2012 Cost of Service application are illustrated below and are within the parameters set by the Board:

Class	Re	Revenue equirement - 2012 Cost Allocation Model	Miscellaneous Revenue Allocated from 2012 Cost Allocation Model		Total levenue	Proposed Revenue to Cost Ratio	Proposed Revenue	30000	scellaneous Revenue		Proposed se Revenue	Board Target Low	Board Target High
Residential	\$	1,233,157	\$ 90,940	S	1,221,789	99 08%	1,221,789	\$	90,940	\$	1,130,849	85%	115%
GS < 50 kW	5	455,611	\$ 34,448	5	412,903	95.36%	434,484	\$	34,448	5	400,036	80%	120%
GS 50 - 999 kW	\$	257,181	\$ 10,511	\$	361,137	120.00%	308,618	5	10,511	\$	298,107	80%	120%
GS 1,000 - 4,999 kW	S	319,770	\$ 8,949	\$	269,593	95.36%	304,942	\$	8,949	S	295,993	80%	120%
Sentinel Lights	S	2,236	\$ 136	8	10,557	120.00%	2,684	5	136	5	2,548	80%	120%
Street Lighting	\$	98,136	\$ 4,990	\$	90 168	95,36%	93,585	\$	4,990	S	88,595	70%	120%
Unmetered Scattered Loads	\$	208	\$ 18	\$	155	95 36%	199	\$	18	5	181	80%	120%
TOTAL	\$	2,366,300	\$ 149,992	\$	2,366,300		2,366,300	\$	149,992	\$	2,216,308		

WNP has completed the IRM Revenue Cost Ratio Adjustment model (v2.0) and has filed this with its application for reference purposes.

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 32 of 219

# **Evidence Supporting this Application**

Wellington North Power Inc. has filed the models and documents (listed below) with this IRM application as supporting evidence and in adherence with the updated Chapter 3 of the Filing Requirements for Transmission and Distribution Applications as issued by the Board on July 17, 2013:

- 2014 IRM3 Rate Generator Model V2.3;
- 2014 IRM Revenue Cost Ratio Adjustment Model V2.0;
- 2014 IRM3 Shared Tax Savings Workform V1;
- 2014 RTSR Adjustment Workform V4;
- 2014 Incremental Capital Workform V1.1;
- 2014 Incremental Capital Project V1.0
- 2012 Revenue Requirement Workform (from WNP's 2012 Cost of Service application EB-2011-0249);
- A copy of WNP's current Tariff Sheets (as per Rate Order EB-2012-00174 WNP's IRM application approving 2013 distribution electricity rates).
- 3<sup>rd</sup> party Substation Assessment Study June 2013

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 33 of 219

Exhibit 2: Tax Sharing Model

**Tax Sharing:** Information

		Incentive Regulation Shared Tax Savings Model for 2014 Filers							
		Version 1.1							
Utility Name	Wellington North Power Inc								
Service Territory Name	e e	<del>-</del>							
Assigned EB Number	EB-2013-0178								
Name and Title	Richard Bucknall, Regulatory Co	mpliance Analyst							
Phone Number	1-519-323-1710								
Email Address	rbucknall@wellingtonnorthpower.com								
Date	Tuesday, September 03, 201	3							
Last COS Re-based Year	2012	<del>-</del>							
Note: Drop-down lists are shaded blue; input cells are shaded green.  This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your IRM application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.  While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.									
good, any or are seen three are resulted.									

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 34 of 219

# Tax Sharing: Re-Based Billing Determinants and Rates

The table below has been updated with

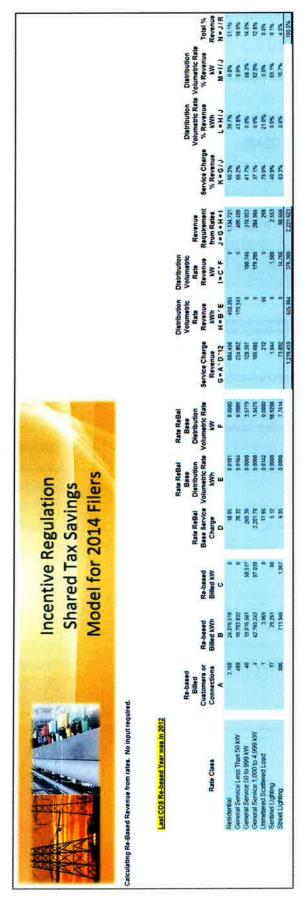
- The Customer numbers / connections and re-based kWh / kW) from WNP's 2012 Cost of Service application (EB-2011-0249);
- The monthly Service Charge and Distribution Volumetric rates for WNP as per Board Approved 2013 IRM Application Cost of Service (EB-2012-0174)



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 35 of 219

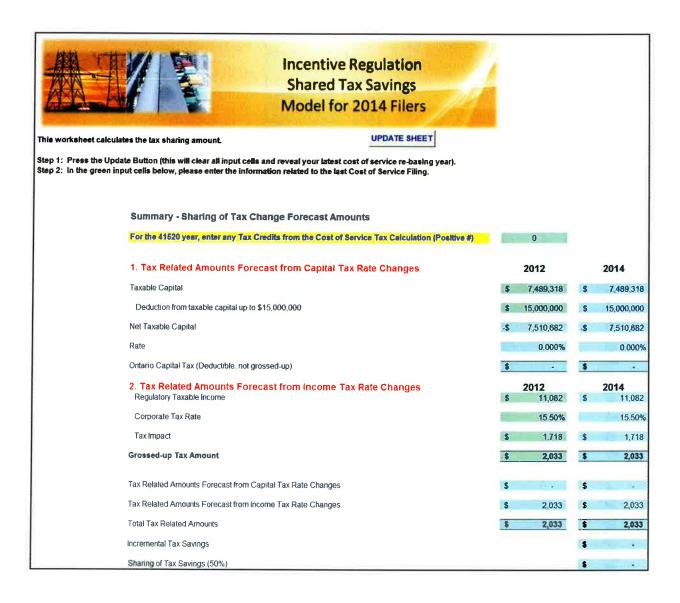
# Calculation of Re-Based Revenue from Rates Tax Sharing:

The table below shows the calculation of rebased revenue from (2013) current rates:



# Tax Sharing: Z-factor Tax Changes

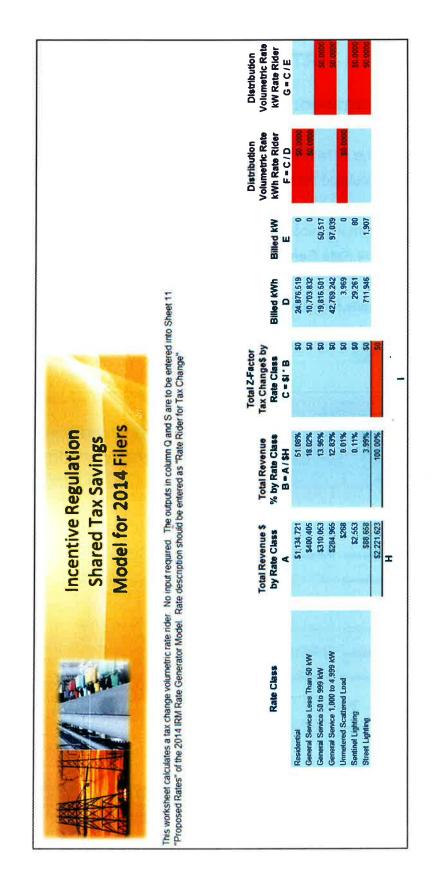
The table below shows the tax-sharing amount with data inputted from WNP's most recent Cost of Service application (EB-2011-0249):



Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 37 of 219

### Calculation of Tax Charge Rate Rider Variance Tax Sharing:

The worksheet below illustrates that there is no (zero) Total Z-Factor Tax Change for WNP and consequently, in the IRM Rate Generator model, there is no requirement for the "Rate Rider for Tax Change".



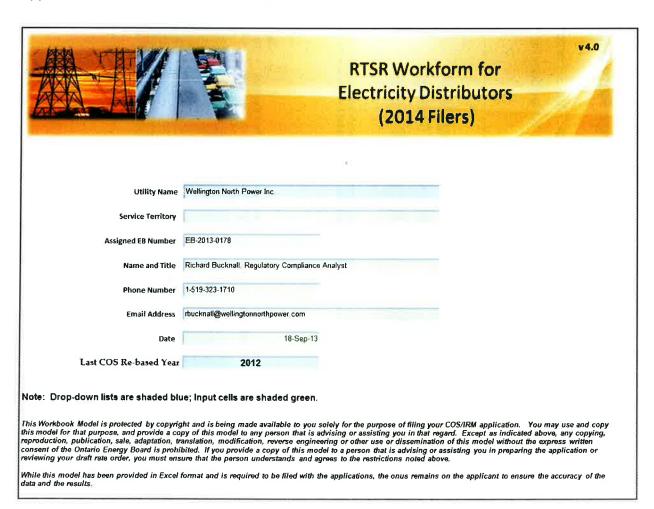
Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 38 of 219

Exhibit 3: RTSR Workform

RTSR: Information:

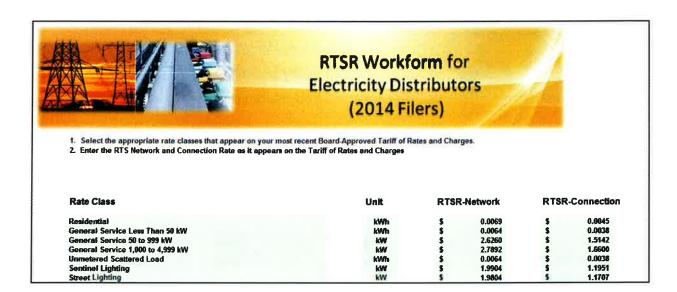
WNP has updated the 2014 RTSR workform (version 4) which was revised on 17th September 2013. WNP has calculated the adjustments to the current Retail Transmission Service Rates as approved in EB-2012-0174. Detailed calculations may be found in the 2014 RTSR Adjustments Workform that accompanies this application. The adjusted RTSR's have been inputted into the 2014 Rate Generator Model, worksheet 11 "Proposed Rates."

The Applicant requests the opportunity to update the RTSR's included in this IRM application should the RTSR's charged to WNP change before the rates applied for in this application are approved and in effect.



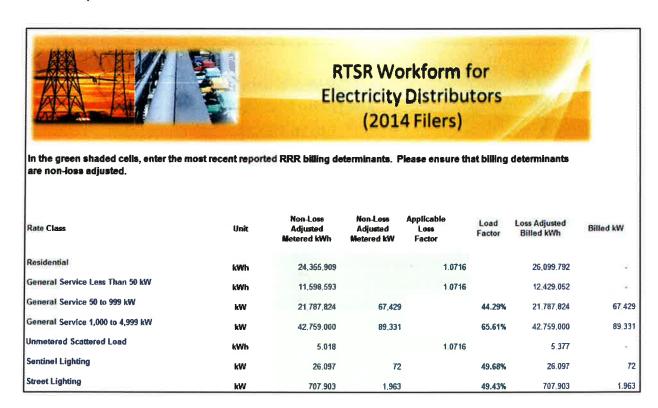
### RTSR: Rate Classes and Current RTS Network and Connection Rates

Below are the rate classes relevant for Wellington North Power Inc and their current corresponding RTSR-Network and RTSR-Connection rates that were approved in the Applicants 2013 IRM application (EB-2012-0174):



### RTSR: Reported RRR Billing Determinants

Below are WNP's Billing Determinants for each rate classes that were reported to the OEB through RRR filing (2.1.5 Performance Based – Supply and Delivery Information, filed April 30<sup>th</sup> 2013):

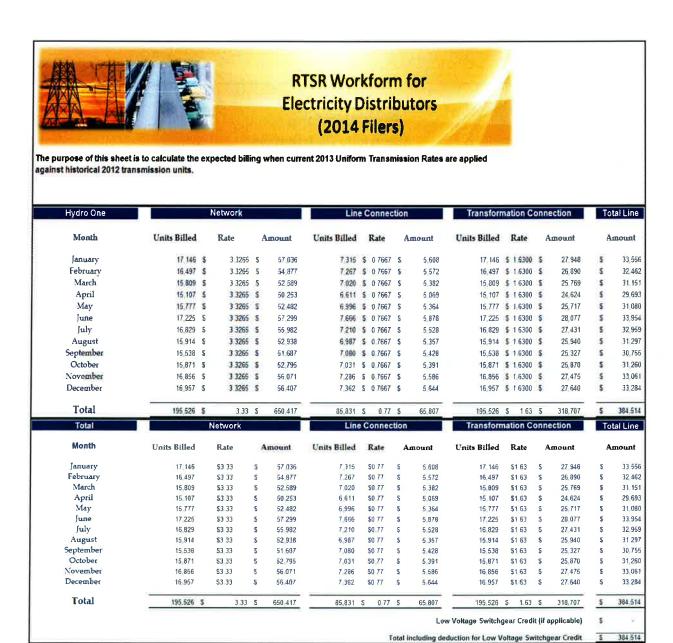


### RTSR: Transmission Rates

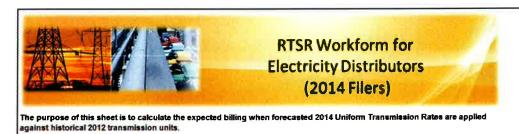
Below are the published Uniform Transmission rates (UTRs) and Hydro One Sub Transmission Rates Billing Determinants for each rate classes that were reported to the OEB:

	Electrici	Vorkford ty Distri 14 Filer	butors	/	J		
Uniform Transmission Rates	Unit		January 1,	Effective	e January 1, 2013		e January 1, 2014
Rate Description		(4	Rate	la la	Rate		Rate
Network Service Rate	kW	\$	3.57	\$	3.63	5	3.63
Line Connection Service Rate	kW	\$	0.80	5	0.75	5	0.75
Transformation Connection Service Rate	kW	5	1.86	\$	1.85	5	1.85
tydro One Sub Transmission Rates	Unit	Effective	: January 1, 2012	Effective	e January 1, 2013		o January 1, 2014
Rate Description		1	Rate	34	Rate		Rate
Network Service Rate	kW	s	2.65	5	3.18	\$	3.18
Line Connection Service Rate	kW	s	0.64	5	0.70	5	0.70
Transformation Connection Service Rate	kW	s	1.50	5	1.63	5	1.63
Both Line and Transformation Connection Service Rate	kW	5	2.14	S	2.33	5	2.33
tydro One Sub-Transmission Rate Rider 9A	Unit		January 1, 2012	Effective	e January 1, 2013	Effectiv	e January 1, 2014
tate Description		1	Rate	1	Rate		Rate
25VA Transmission network - 4714 - which affects 1584	kW	5	:S#5	\$	0.1465	\$	0.1465
RSVA Transmission connection - 4716 - which affects 1586	kW	\$	•	\$	0.0667	\$	0.0667
RSVA LV – 4750 - which affects 1550	kW	\$	:::::	\$	0.0475	\$	0.0475
RARA 1 - 2252 - which affects 1590	kW	S	•	\$	0.0419	\$	0.0419
RARA 1 - 2252 - which affects 1590 (2008)	kW	\$	*	-\$	0.0270	-\$	0.0270
ARA 1 - 2252 - which affects 1590 (2009)	kW	\$	·	-5	0.0006	-\$	0.0006
Tydro One Sub-Transmission Rate Rider 9A	kW	5		5	0.2750	\$	0.2750

### RTSR: Current Wholesale Uniform Transmission Rates



### RTSR: Forecast Wholesale Uniform Transmission Rates

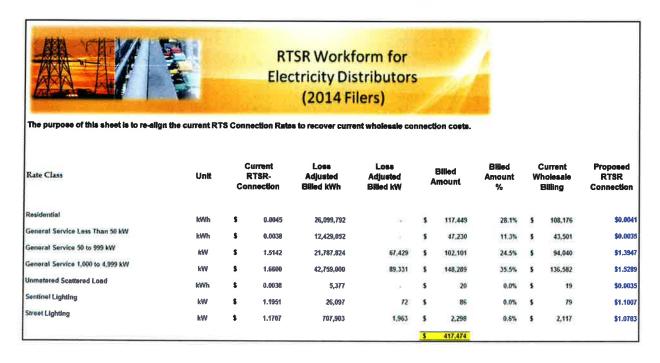


Hydro One		Ne	twork			Lin	e C	onne	tio	n	Transfor	ma	tion C	onne	ection	To	tal Line
Month	Units Billed	I	Rate	1	Amount	Units Billed	1	Rate		Amount	Units Billed		Rate	A	Amount	A	Lanount
January	17_146	\$	3 3265	S	57,036	7,315	8	0 7667	S	5 608	17 146	\$	1 6300	\$	27,948	\$	33 55
February	16,497	5	3 3265	\$	54,877	7,267	5	0 7667	\$	5 572	16,497	5	1.6300	5	26,890	\$	32,46
March	15,809	5	3 3265	\$	52 589	7,020	5	0 7667	5	5, 382	15,809	\$	1 6300	S	25 769	\$	31,15
April	15 107	5	3 3265	5	50 253	6,611	\$	0 7667	5	5 069	15, 107	5	1 6300	5	24 624	\$	29 69
May	15,777	\$	3 3265	5	52,482	6 996	5	0 7667	5	5 364	15,777	\$	1 6300	\$	25,717	\$	31,08
fune	17 225	5	3 3265	S	57, 299	7,666	\$	0 7667	5	5,878	17 225	S	1 6300	\$	28,077	5	33,95
July	16 829	5	3 3265	5	55,982	7,210	5	0 7667	S	5,528	16,829	\$	1 6300	\$	27 431	S	32 95
August	15 914	5	3 3265	\$	52 938	6 987	S	0 7667	5	5.357	15,914	5	1.6300	5	25,940	5	31,29
September	15 538	5	3 3265	5	51.687	7.080	S	0 7667	S	5.428	15.538	s	1 6300	5	25,327	5	30 75
October	15.871	5	3 3265	S	52.795	7.031	S	0 7667	5	5.391	15.871	5	1 6300	\$	25,870	5	31.26
November			3 3265		56,071			0 7667		5.586	16 856	5	1 6300	\$	27,475	5	33.06
December			3 3265		56 407			0 7667		5,644	16,957	5	1 6300	5	27 640	5	33,28
Total	195,526	S	3.33	s	650,417	85,831	\$	0.77	5	66,807	195,526	\$	1.63	s	318,707	\$	384,51
Total		Ne	twork			Lin	e C	onnec	tio	n	Transfor	ma	tion C	onne	ection	To	otal Line
Month	Units Billed	F	Rate	É	Amount	Units Billed	I	Rate		Amount	Units Billed		Rate	A	Amount	A	Amount
January	17,146	ς	3 33	c	57 036	7.315	5	0.77	5	5,608	17, 146	S	1.63	5	27 948	5	33.55
February	16 497		3 33		54.877	7 267		0 77		5.572	16,497		1 63		26,890	S	32.46
March	15 809		3 33		52 589	7 020	50	0 77	-35	5 382	15 809		1 63		25 769	5	31,15
April	15 107		3 33		50.253	6.611		0 77		5.069	15, 107		1 63	S	24,624	\$	29.69
May	15.777		3 33		52.482	6.996	5	0.77	5	5 364	15,777	\$	1 63	5	25 717	S	31.08
June	17 225	5	3 33	S	57,299	7.666	5	0 77	S	5.878	17.225	5	1 63	S	28 077	S	33.95
July	16 829		3 33	5	55,982	7.210	5	0.77	\$	5,528	16.829	5	1,63	5	27,431	5	32,99
August	15.914		3 33		52 938	6.987	5	0 77	5	5,367	15.914	5	1 63	\$	25.940	\$	31 29
September	15.538	5	3 33	5	51,687	7.080	S	0 77	\$	5,428	15.538	\$	1 63	5	25 327	\$	30,75
October	15,871	5	3.33	5	52,795	7,031	S	0 77	\$	5.391	15.871	\$	1 63	5	25 870	5	31,26
November	16,856	5	3 33	S	56 071	7.286	5	0 77	\$	5,586	16,856	\$	1 63	\$	27 475	S	33,06
December	16,957	\$	3 33	S	56,407	7 362	\$	0 77	\$	5,644	16,957	\$	1 63	S	27,640	\$	33.28
Total	195,526	5	3 33	s	650,417	85,831	5	0.77	5	65,807	195,526	5	1,63	S	318,707	\$	384,51
										1.	w Voltage Switch	hac	ar Cror	lie die	applicable)	s	- 1
										L	M Actrada 2Mire	nye	on Croc	ur (u	applicable		

### RTSR: Adjustment to Recover Current Wholesale Network Costs

				SR Workf stricity Dis (2014 Fi	tributors			4			
The purpose of this sheet is to re-alig	n the current R	rs Netw	ork Rates to	recover current	wholesale netwo	rk co	sts.				
Rate Class	Unit		urrent RTSR- letwork	Losa Adjusted Billed kWh	Loss Adjusted Billed kW	,	Billed Amount	Billed Amount %	W	Current holesale Billing	Proposed RTSR Network
Residential	kWh	\$	9,0069	26,099,792	25	5	180,089	26.1%	5	169,775	\$0.006
General Service Less Than 50 kW	kWh	\$	0.0064	12,429,052		5	79,546	11.5%	•	74,990	\$0,006
General Service 50 to 999 kW	kW	5	2,6260	21,787,824	67,429	5	177,069	25.7%	•	166,928	\$2,475
General Service 1,000 to 4,999 kW	kW	5	2.7892	42,759,800	89,331	5	249,162	36.1%	•	234,892	\$2.629
Unmetered Scattered Load	kWb	5	0.0064	5,377		•		0.0%			\$0.006
Sentinel Lighting	kw	•	1.9904	26,097		850	34	0.0%	5	32	•
	KaA	*	1.3904	,	72	5	143		5	135	\$1.876
Street Lighting	kW		1.9804	707,903	1.963	5	3,888	0.6%	5	3.665	\$1.8670

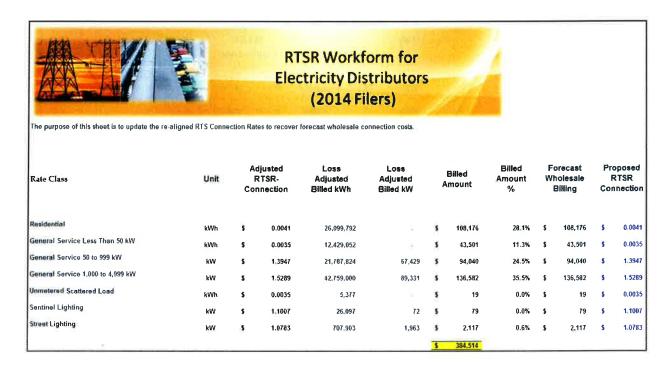
### RTSR: Adjustment to Recover Current Wholesale Connection Costs



### RTSR: Adjustment to Recover Forecast Wholesale Network Costs

		GOOD FIRST	RTSR Workfo ectricity Dist (2014 File	ributors			4			
The purpose of this sheet is to updat	e the re-align RTS	Network Rates to	recover forecast whole:	aale network cos	ts.					
Rate Class	Unit	Adjusted RTSR- Network	Loss Adjusted Billed kWh	Loss Adjusted Billed kW	,	Billed Amount	Billed Amount %	W	orecast holesale Billing	Proposed RTSR Network
Residential	kWh	\$0.0065	26,099,792	-		169,774.69	26,1%	s	169,775	\$0.006
General Service Less Than 50 kW	kWh	\$0.0060	12,429,052		\$	74,990	11,5%	s	74,990	\$0,006
General Service 50 to 999 kW	kVV	\$2.4756	21,787,824	67,429	\$	166,928	25.7%	5	166,928	\$2,475
General Service 1,000 to 4,999 kW	kW	\$2.6295	42,759,000	89,331	s	234,892	36.1%	5	234,892	\$2.629
Unmetered Scattered Load	kWh	\$0.0060	5,377		5	32	0.0%	5	32	\$0.006
Sentinel Lighting	kW	\$1.8764	26,097	12	5	135	0.0%	5	135	\$1.876
Street Lighting	kW	\$1.8670	707,903	1,963	\$	3,665	0.6%	.5	3,665	\$1.857

### RTSR: Adjustment to Recover Forecast Wholesale Connection Costs



### RTSR: Proposed 2014 RTS Rates

Below are the calculated Retails Transmission Service Rates that have been calculated using the RTSR model issued by the Board for 2014 IRM Applications (RTSR v4.0).

These 2014 RTSR Network and Connection rates have been inputted into the 2014 IRM Rate Generator model worksheet 11 "Proposed Rates".



### RTSR Workform for Electricity Distributors (2014 Filers)

For Cost of Service Applicants, please enter the following Proposed RTS rates into your rates model.

For IRM applicants, please enter these rates into the 2013 IRM Rate Generator, Sheet 11 "Proposed Rates", column I. Please note that the rate descriptions for the RTSRs are transfered automatically from Sheet 4 to Sheet 11, Column A.

Rate Class	Unit	F	oposed RTSR etwork	- 1	oposed RTSR nnection
Residential	kWh	\$	0.0065	s	0.0041
General Service Less Than 50 kW	kWh	\$	0.0060	\$	0.0035
General Service 50 to 999 kW	kW	\$	2.4756	\$	1.3947
General Service 1,000 to 4,999 kW	kW	\$	2.6295	5	1.5289
Jnmetered Scattered Load	kWh	\$	0.0060	5	0.0035
Sentinel Lighting	kW	\$	1.8764	\$	1.1007
Street Lighting	kW	\$	1.8670	s	1.0783

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 47 of 219

Exhibit 4: Revenue-to-Cost Ratio Workform

Rev to Cost Ratio: Introduction

WNP is <u>not</u> proposing any changes to the Revenue to Cost ratios that were approved in the Decision and Order EB-2011-0249 – the LDC's 2012 Cost of Service application. The Revenue to Cost ratios that were reviewed and approved in WNP's 2012 Cost of Service application are illustrated below and are within the parameters set by the Board:

Class		Revenue equirement - 2012 Cost Allocation Model	Miscellanee Revenue Allocated fr 2012 Cos Allocation M	om t	Total Revenue	Proposed Revenue to Cost Ratio	Proposed Revenue	DANKS VAN	cellaneous Revenue		Proposed se Revenue	Board Target Low	Board Target High
Residential	\$	1,233,157	\$ 90.	940	\$ 1,221,789	99 08%	1,221,789	S	90,940	\$	1 130 849	85%	115%
GS < 50 kW	S	455,611	\$ 34	448	\$ 412,903	95.36%	434,484	S	34,448	\$	400,036	80%	120%
GS 50 - 999 kW	S	257,181	\$ 10.	511	\$ 361,137	120.00%	308,618	S	10,511	\$	298,107	80%	120%
GS 1,000 - 4,999 kW	\$	319,770	\$ 6,	949	\$ 269,593	95.36%	304,942	\$	8,949	S	295,993	80%	120%
Sentinel Lights	5	2,236	S	136	\$ 10,557	120.00%	2,684	S	136	\$	2,548	80%	120%
Street Lighting	S	98,136	\$ 4,	990	\$ 90,168	95.36%	93,585	\$	4.990	\$	88,595	70%	120%
Unmetered Scattered Loads	5	208	S	18	\$ 155	95.36%	199	5	18	8	181	80%	120%
TOTAL	\$	2,366,300	\$ 149,	992	\$ 2,366,300		2,366,300	5	149,992	5	2,216,308		

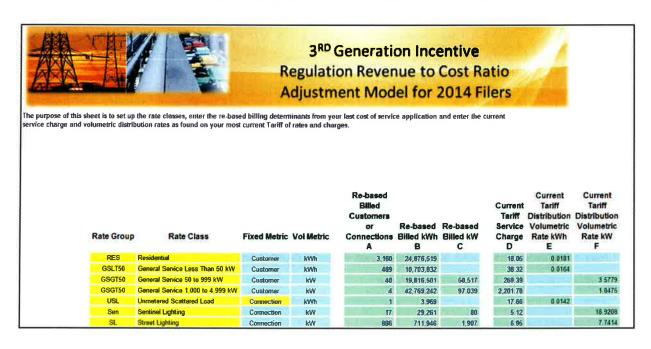
WNP has completed the IRM Revenue Cost Ratio Adjustment model (v2.0) and has filed this with its application for reference purposes.

	Revenue to Cost Ratio Adjustment Model for 2014 IRM Filers
Utility Name	Wellington North Power Inc
Service Territory Name	e
Assigned E8 Number	EB-2013-0178
Name and Title	Richard Bucknall, Regulatory Compliance Analyst
Phone Number	1-519-323-1710
Email Address	rbucknati@wellingtonnorthpower.com
Date	3rd September 2013
Last COS Re-based Year	2012
for that purpose, and provide a copy of this model to any publication, sale, adaptation, translation, modification, rot Energy Board is prohibited. If you provide a copy of this you must ensure that the person understands and agrees	eing made available to you solely for the purpose of filling your IRM application. You may use and copy this model person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, were engineering or other use or dissentination of this model without the supress writine constraint of the Ontario model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, so the restrictions noted above.  required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and

### Rev to Cost Ratio: Re-based Billing Determinants and Rates

The table below has been updated with

- The Customer numbers / connections and re-based kWh / kW) from WNP's 2012 Cost of Service application (EB-2011-0249);
- The monthly Service Charge and Distribution Volumetric rates for WNP as per Board Approved 2013 IRM Application Cost of Service (EB-2012-0174)



Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 49 of 219

## Rev to Cost Ratio: Removal of Rate Adders

The worksheet below illustrates that WNP is not requesting the removal any Rate Adders:

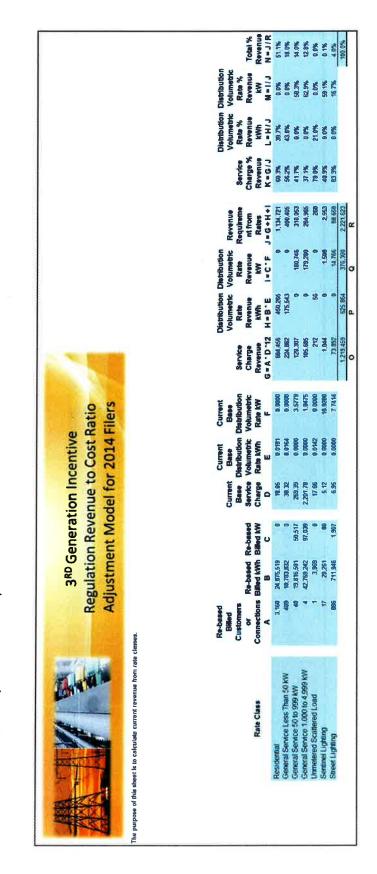
Regulation Revenue to Cost Ratio Adjustment Model for 2014 Filers The purpose of this sheet is to rismove any rate addere included in current rates. Most applicants will not need to make an antry on this sheet.	Regulation Revenue to Cost Ratio Adjustment Model for 2014 Filers in hicksided in cultons traffer. Most applicants will not need to make an antity	to Cost Ration 2014 File	rio ranty on this shoet.						
Rate Cless	Current Service Charge	Current Tariff Current Tariff Distribution Distribution Volumetric Rate kWh Volumetric Rate kWh C	Current Tariff Discribution Volumetric Rate KW	Service Charge Rate Addere D	Service Dietribution Dietribution Charge Rate Volumetric KWh Volumetric KW Adderv Rate Adderv Rate Adderv D	Distribution Volumetric KW Rate Addern	Bes Service Cherge H • A · D	Base Distribution Base Distribution Volumetric Rate Volumetric Rate KWM KWM I* B. E. J. C. F.	Volumetrie Rete KW J = C - F
Kesidemai		1810.0	0000 0	00.0	0.0000	0.0000	18.05	0.0181	000
General Service Less Than 50 k		910.0	0.000	000	00000	00000	38.32	0.0164	00000
General Service 50 to 999 kW	269.39	00000	3.5779	000	0 0000	0 0000	269 39	0 0000	191
General Service 1,000 to 4,999 kW	2	00000	18475	000	0 0000	0,0000	2 201 78	0000	1 845
Unmetered Scattered Load	17.66	0.0142	00000	000	00000	00000	17.66	0 0142	000
Sentinel Lighting		0.000	18 9208	0000	00000	00000	6 12	00000	18 9203
Straet Indition	96.9	00000	7.7414	000	00000	0.0000	E 04	A CONTRA	

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 50 of 219

## Rev to Cost Ratio: Calculation of Current Revenue

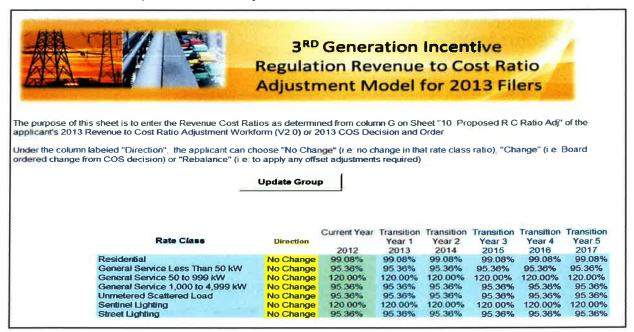
The worksheet below illustrates the calculation of current revenue from rate classes. This revenue is derived from:

- The Customer numbers / connections and re-based kWh / kW) from WNP's 2012 Cost of Service application (EB-2011-0249);
- The monthly Service Charge and Distribution Volumetric rates for WNP as per Board Approved 2013 IRM Application Cost of Service (EB-2012-0174)



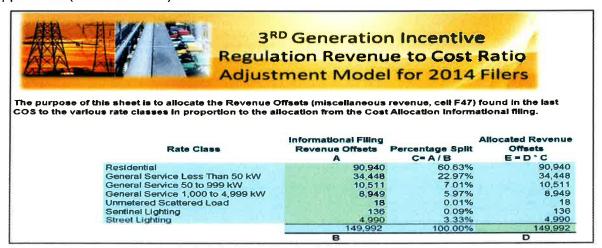
### Rev to Cost Ratio: Approved Revenue Cost Ratios

The worksheet below illustrates the current revenue cost ratios for each customer class as approved by the Board in WNP's 2012 Cost of Service application (EB-2011-0249). These ratios are within the parameters set by the OEB:



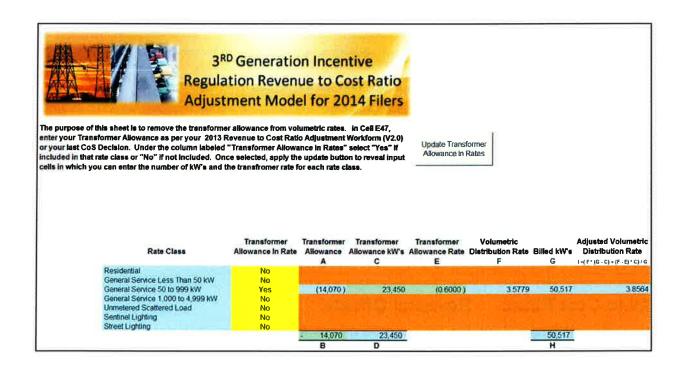
### **Rev to Cost Ratio:** Revenue Offsets

The worksheet below illustrates the revenue offsets for each customer class. It should be noted that these revenues offsets were approved by the Board in WNP's 2012 Cost of Service application (EB-2011-0249):



### Rev to Cost Ratio: Transformer Allowance

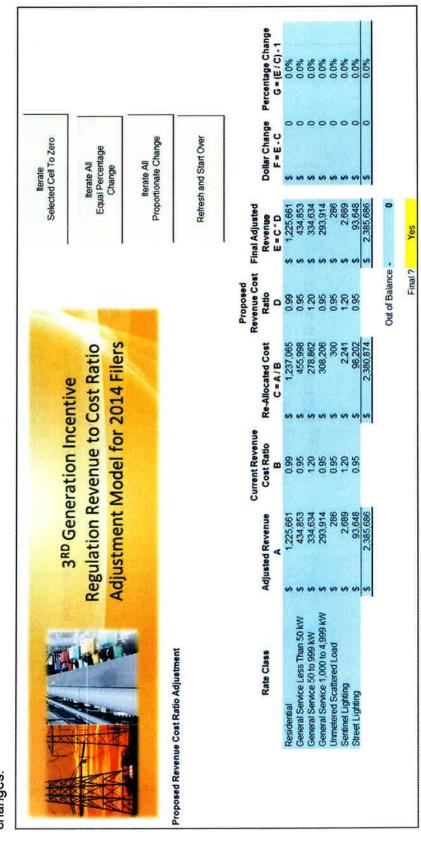
The worksheet below illustrates the Transformer Allowance kW and rate. For WNP, this is applicable to customers in the General Service 50-999kW class. It should be noted that this transformer allowance information was approved by the Board in WNP's 2012 Cost of Service application (EB-2011-0249):



Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 53 of 219

# Rev to Cost Ratio: Proposed Revenue to Cost Ratios

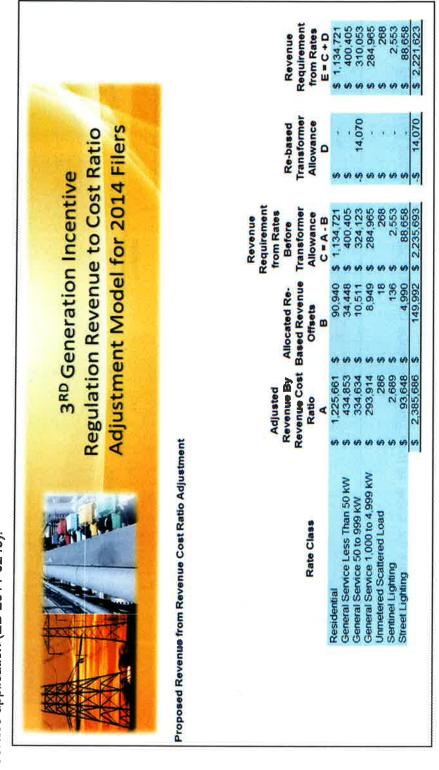
The worksheet below illustrates the proposed Revenue to Cost ratios. As per worksheet 6 "Decision Cost Revenue Adj", the Proposed Revenue Cost-Ratios are the same as the Current Revenue Cost-Ratios, indicating that WNP is not requesting any changes:



Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 54 of 219

### Rev to Cost Ratio: Proposed Revenue

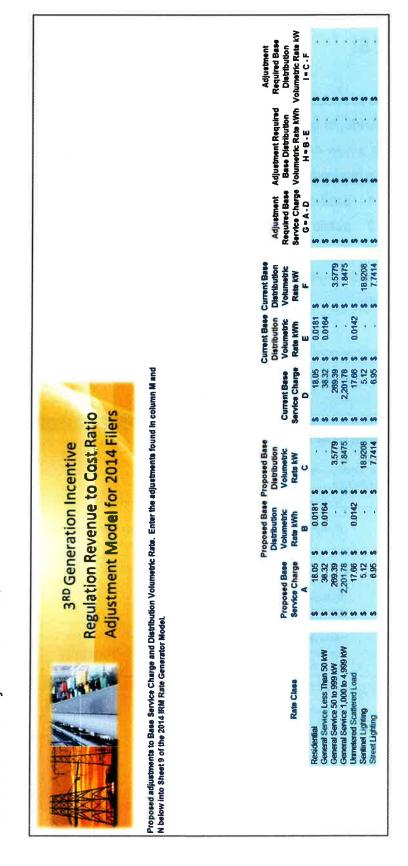
The worksheet below illustrates the proposed revenue applying the cost ratios as approved by the Board in WNP's 2012 Cost of Service application (EB-2011-0249):



Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 55 of 219

## Rev to Cost Ratio: Adjustment to Proposed Rates

The worksheet below illustrates the adjustment to proposed rates as calculated by the 2014 IRM Revenue to Cost Ratio Adjustment model (v2.0). As the cost ratios have not changed as per approved by the Board in WNP's 2012 Cost of Service application (EB-2011-0249), there are no adjustments required for WNP for either the Service Charge or Distribution Volumetric rate for any customer class:



### **Exhibit 5:** Incremental Capital Module

This section provides details on the 2104 incremental project totalling \$1.60 million. This capital expenditure is intended to replace one of the existing substations (MS2 in Mount Forest) with a new 44kV 5 MVA Substation. This expenditure supports Wellington North Power Inc.'s business objectives of prudent and sustainable investments in:

- 1. business system performance and reliability;
- 2. public and employee safety;
- 3. regulatory compliance;

Furthermore, this expenditure meets the asset end-of-life replacement and long term planning requirements.

The table below contains a breakdown of the estimated capital expenditures for the incremental capital project followed by background information and alternative options.

Incremental Capital Project Expenditures

Costello Sep						
	Wellington North H	ydro - 44 kV 5 MVA Substa	tion Con	cept Budget		
	Design	Outdoor 44 kV Padmounter	d Switche	ear. Undergrou	nd Construc	tion
	233.4	15kV Padmounted Switchg	~			
		Padmounted Reclosers and	Isolating	Switches		
		Underground 15 kV Risers				
	Voltage	44 - 4 16/2 4 kV				
	Installed Capacity	5 MVA				
	Switchgear Type	Padmount				
	Main Breaker	none				
	Feeder Breakers	15 kV 630A Solid Dielectric	Recinco	re v 3		
	Schedule	Fall 2014	reciose	10 % 0		
	Component		Co	st Detail	Sum	mary
1)	Property Costs					
	1.1) Sale price		\$	3		
	1 2) Legal and Survey	ing costs	\$	15,000		
					5	15,000
2)	Engineering & Desi	gn				
	2 1) Preliminary engi-	neering	\$	16,000		
	2 2) Environmental S	creening	\$	5,000		
	2.3) Geotechnical Inv	estigation	\$	15,000		
	2 4) Grounding		5	30,000		
	2 5) Detailed enginee	ring & Design	\$	80,000		
	2 6) Site Meetings		\$	3,000		
	· · · · · · · · · · · · · · · · · · ·	& Project Management	\$	20,000		
	2 8) Protection Study		_\$	7,500		
					5	176.500

	Component	Cost Detail	Summary
3)	Major equipment		
1.1.411	3 1) Power Transformer 5 MVA	\$ 240,000	
	3 2) Station Reclosers (3)	\$ 90,000	
	3 3) 44 kV PM Switches/Fuses	\$ 55,000	
	3.4) S&C Switchgear	\$ 105,000	
	3.5) Prefab Control Shack w/pad	\$ 30,000	
	3.6) Station Service	\$ 7,500	
	3 7) 44 kV Cables/Terminators est 120m	\$ 20,000	
	3 8) 15 kV 500 MCM Cables/Terminators est. 550m	\$ 125,000	
	3 9) Solid Blade Riser Switches (9)	\$ 6,000	
	3 10) Scada RTU	\$ 45,000	
	▼ Constitution Co		\$ 723,500
4)	Civil Construction		1107 Repeat
	4 1) Construction Power	\$ 7,500	
	4 2) Clearing, Grubbing, Grading, compacting, fill	\$ 60,000	
	4.3) Road entrance/paving	\$ 10,000	
	4.4) Oil Containment	\$ 15,000	
	4 5) Duct Banks	\$ 120,000	
	4.6) Concrete Foundations	\$ 75,000	
	4.7) Fence & Stone	\$ 100,000	
	,		\$ 387,500
5)	Electrical		
•	5 1) Grounding	\$ 30,000	
	5.2) 44 kV Dip Pole	\$ 2,500	
	5.3) 4.16 kV Riser Poles	\$ 7,500	
	5 4) Installation of Transformer	\$ 5,000	
	5.5) Installation of Reclosers	\$ 6,000	
	5.6) Power & Control Cabling	\$ 7,500	
	5 7) Station Service Panel	\$ 3,000	
	5.8) Commissioning	\$ 22,000	
			\$ 83,500
5)	Miscellaneous		,344
•	6.1) Mobilization, Bonding, Insurance	\$ 50,000	
	6 2) Fees & Permits	\$ 5,000	
			\$ 55,000
7)	WNP Staff Costs		
(a)	7.1) Lines	\$ 5,000	
	7.2) Stations	\$	
	7.3) Engineering	\$ 5,000	
	,	1000	\$ 10,000
	Total		\$ 1,451,000
	Contingency 10%		\$ 145,100
	Budget Total		\$ 1,596,100
	budget rotal		1,530,100

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 58 of 219

### Background

Wellington North Power Inc. acquired the services of Costello Associates Inc. to provide supporting technical information and budgetary estimates for an asset condition assessment of six of its Distribution Substations. This independent 3<sup>rd</sup> party report with findings and recommendation was issued to Wellington North Power Inc. in June 2013 and is included in **Appendix 5** of this rate application.

The 3<sup>rd</sup> party Substation Condition Assessment Study that was commissioned by WNP in 2013 (Appendix 5) identifies deficiencies in the substations that require attention. Page 2 of the report states the concern regarding the age of these substations (i.e. two substations being over 40 years old) and hence the requirement of a strategy for replacement.

### It should be noted that:

 Of the two substations (MS2 and MS4) that are identified in the report as candidates for replacement, by way of this IRM application, WNP are requesting incremental capital to replace MS2 substation ahead of MS4 substation based upon the following:

### MS4 (Durham Street West) – lower priority:

- Distribution plant in and around sub-station requires significant upgrade to fully utilize this sub-station asset / This will take added planning, construction and cost;
- Sub-station currently supplies one 4,160V circuits at a load of less than 0.5MW;
- Sub-station should be marked for replacement in near future (2016).

### MS2 (Foster Street at Sligo) – high priority:

- Distribution plant in and around sub-station provides capacity for significant use;
- Sub-station currently supplies four 4,160V circuits with a peak load of approximately 2MW;
- MS2 exists in the critical industrial area in the north part of Mount Forest, i.e. location is close to important load;
- WNP owes enough land at MS2 to facilitate rebuild activities while keeping the existing MS2 energized;
- Major items were identified within Costello's report as concerns about MS2.

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 59 of 219

- The LDC is planning to replace MS4 substation in the near-future and <u>may</u> include this as part of WNP's next Cost of Service application (i.e. 2015 submission for 2016 rates) or in an IRM application. This is dependent upon the learning and experience gained from replacing MS2.
- 3. WNP has reviewed the assessment report in detail and will address those deficiencies identified where the LDC has the capability (i.e. knowledge, training and expertise). However, 3<sup>rd</sup> party technical expertise will be required to address the deficiencies that the LDC cannot correct.

In WNP's 2012 Cost of Service application, the LDC included Capital Expenditure (CapEx) plans for the period 2013 – 2018 (EB-2011-0249 - Exhibit 2, Tab 5, Schedule 7 pages 254-257 contain tables, tables 2-60 to 2-65). These plans show that LDC has provisioned for approximately \$240,000 per year from 2014 onwards to replace major components of the substations. (Appendix 4 contains copies of the Applicant's CapEx planned items for the period 2013 to 2018). On an annual basis, WNP has performed scheduled maintenance of its six distribution substations, with the assistance of annual inspections undertaken by a 3<sup>rd</sup> party.

Below are extracts from the "Recommendations" section 3<sup>rd</sup> party substation assessment report that illustrate the necessity to replace (page 6 section 3). (This independent 3<sup>rd</sup> party report with findings and recommendation was issued to Wellington North Power Inc. in June 2013 and is included in **Appendix 5** of this rate application):

### 3.2 Aging Plant

As mentioned above, two substations have exceeded the average life expectancy for this type of equipment. Two other stations are approaching their end of life. A strategy is required to plan for the replacement of these assets. The replacement cost of substation equipment is significant, and costs have been rising steadily over the past few years due to the increase in cost of metals. The replacement of station assets should be forecasted, based on the safety, reliability, and age of the stations, in concert with consideration for distribution projects. Ongoing periodic condition assessments should be performed to determine the priority of replacement projects

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 60 of 219

### 4 Conclusion

There are numerous safety issues with the WNP substations that should be immediately addressed. A short term work plan is required to make necessary repairs as part of the 2013 operating program. In addition, the general age and condition of the stations warrant the development of a long term replacement/ rehabilitation program.

Source: Costello Associates – "Substation Condition Assessment Study, prepared for Wellington North Power Inc. June 2013"

WNP has reviewed the assessment report in detail and will address those deficiencies identified where the LDC has the capability (i.e. knowledge, training and expertise). However, 3<sup>rd</sup> party technical expertise will be required to address the deficiencies that the LDC cannot correct. This approach seeks to address the safety issues identified in the assessment and referred to in the report's conclusion.

Furthermore, based upon this independent assessment, WNP firmly believes that given the condition and age of two of its substations, the LDC needs to replace one of these substations (MS2) as a priority.

### **Alternatives**

Upon reviewing the independent 3<sup>rd</sup> party substation assessment report (Appendix 5), WNP has considered the following alternatives in addressing the conclusion of the replacement / rehabilitation program for MS2 substation:

Alternative #1 - Do nothing (No cost).

Alternative #2 - New Substation. (Estimated cost \$1.60m)

Replace the original substation (MS2) with a new substation that conforms to the latest safety specifications and meets WNP's requirements to distribute electricity to the Mount Forest service territory

<u>Alternative #3</u> – New substation re-using existing transformer (Estimated cost \$1.39m) Replace the original substation (MS2) with a new substation that conforms to the latest safety specifications and to re-use the current transformer.

The table contains a breakdown of the estimated capital expenditures for this alternative as prepared by WNP, with a \$50,000 allowance included to allow for the existing transformer to be refurbished prior to re-use:

### Alternative #3 - New Substation with re-use of existing Transformer

Manager	of Operations					
Well	ington North Hydro . 44 k	V 5 MVA Substation Concept	Bude	et . Re.use of	Transform	er
1,742.0		o mar outside outside	Guog			
	Design	Outdoor 44 kV Padmounted St 15kV Padmounted Switchgear Padmounted Reclosers and Iso Underground 15 kV Risers x 3	, Re-L olating	Jse Transformer		ction
	Voltage	44 - 4 16/2 4 kV				
	Installed Capacity	5 MVA				
	Switchgear Type	Padmount				
	Main Breaker	none				
	Feeder Breakers	15 kV 630A Solid Dielectric Re	close	ers x 3		
	Schedule	Fall 2014				
	Component		Co	st Detail	Sum	ımary
1)	Property Costs					
	1 1) Sale price		\$	298		
	1.2) Legal and Surve	ying costs	\$	15,000		
					S	15,000
2)	Engineering & Desi	gn				
	2.1) Preliminary engi	neering	\$	16,000		
	2 2) Environmental S	creening	\$	5,000		
	2 3) Geotechnical Inv	estigation	\$	15,000		
	2.4) Grounding		\$	30,000		
	2,5) Detailed enginee	ring & Design	\$	80,000		
	2.6) Site Meetings		\$	3,000		
		& Project Management	\$	20,000		
	2.8) Protection Study	•	<u>\$</u>	7,500	5	176,500
3)	Major equipment	5.00/4	•	50.000		
	3 1) Power Transform		\$	50,000		
	3.2) Station Recloser		\$	90,000		
	3.3) 44 kV PM Switch		\$ \$	55,000 105,000		
	3 4) S&C Switchgear 3 5) Prefab Control S		5 5	30.000		
	3.6) Station Service	mack w pau	\$	7,500		
	3 7) 44 kV Cables/Te	rminators est 120m	\$			
		Cables/Terminators est 550m	\$	125,000		
	3 9) Solid Blade Rise		\$	6,000		
	3.10) Scada RTU		\$	45,000		
	,				\$	533,500
4)	Civil Construction					
12	4 1) Construction Pov	nev	\$	7,500		
		ng, Grading, compacting, fill	\$	60,000		
	4 3) Road entrance/p		5	10,000		
	4 4) Oil Containment		5	15.000		
	4 5) Duct Banks		\$	120,000		
	4 6) Concrete Founda	ntions	\$	75,000		
	4 7) Fence & Stone		\$	100,000		

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 62 of 219

### Alternative #3 - New Substation with re-use of existing Transformer / continued

	Component	Cost Detail	Summary
5)	Electrical		
	5.1) Grounding	\$ 30,000	
	5.2) 44 kV Dip Pole	\$ 2,500	
	5.3) 4.16 kV Riser Poles	\$ 7,500	
	5 4) Installation of Transformer	\$ 5,000	
	5.5) Installation of Reclosers	\$ 6,000	
	5.6) Power & Control Cabling	\$ 7,500	
	5.7) Station Service Panel	\$ 3,000	
	5.8) Commissioning	\$ 22,000	
			\$ 83,500
6)	Miscellaneous		
	6.1) Mobilization, Bonding, Insurance	\$ 50,000	
	6.2) Fees & Permits	\$ 5,000	
			\$ 55,000
7)	WNP Staff Costs		
	7 1) Lines	\$ 5,000	
	7 2) Stations	\$ -	
	7 3) Engineering	\$ 5,000	
			\$ 19,000
	Total		\$ 1,261,000
	Contingency 10%		\$ 126,100
	Budget Total		\$ 1,387,100

### **Recommendation:**

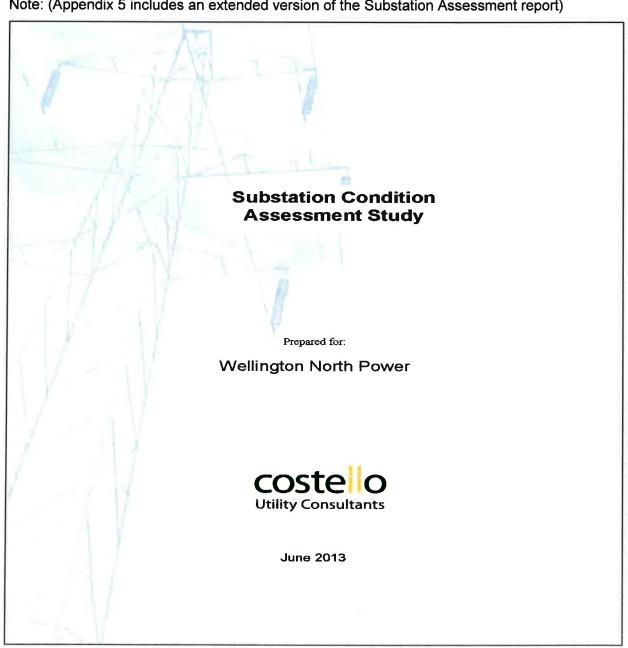
Given the three alternatives cited above, WNP recommendation is to pursue Alternative #2 – replace the aged MS2 substation with a new substation. This recommendation is based upon the following:

Advantages	Disadvantages		
	<ul> <li>X This not an option as it poses an unacceptable risk to lose services for a long period of time.         This substation provides 30% of the load servicing the Mount Forest community     </li> <li>X Due diligence must be served in this situation</li> </ul>		
<ul> <li>✓ Resolves <u>all</u> of the safety and reliability issues that have been identified in the 3rd party Substation Assessment report</li> <li>✓ New protection and control equipment installed at sub-station will use today's technology and may be adaptable to future technological development</li> </ul>			
Solution reduces risk of equipment failure and fulfills the obligation of the typical useful life of 45 years. This cost, amortized over 45 years is the most cost-effective and prudent to rate-payers			
Resolves many of the safety and reliability issues that have been identified in the 3rd party Substation Assessment report  From a cost perspective, this alternative is approximately \$209,000 lower (13%) than Alternative #2 (i.e. \$1,387,100 compared to \$1,596,100)  Existing transformer (once tested) can be utilized in new station design: reduced cost  Still see new protection and control equipment installed at sub-station.  Reclosers will provide better system reliability for customer, i.e. momentary power outages will be handled automatically.  Equipment will be SCADA-capable.  Equipment will be capable of providing	<ul> <li>X The existing transformer is aged (41 years). Risk of equipment failure substantially increases each day / month / year. Also there is a increased potential risk of an oil leak</li> <li>X The new design will be limited by constraint of utilizing existing equipment</li> <li>X Inherent risk of using existing equipment that may support current technology but could be limited to future technologies</li> </ul>		
	Resolves <u>all</u> of the safety and reliability issues that have been identified in the 3rd party Substation Assessment report  New protection and control equipment installed at sub-station will use today's technology and may be adaptable to future technological development  Solution reduces risk of equipment failure and fulfills the obligation of the typical useful life of 45 years. This cost, amortized over 45 years is the most cost-effective and prudent to rate-payers  Resolves many of the safety and reliability issues that have been identified in the 3rd party Substation Assessment report  From a cost perspective, this alternative is approximately \$209,000 lower (13%) than Alternative #2 (i.e. \$1,387,100 compared to \$1,596,100)  Existing transformer (once tested) can be utilized in new station design: reduced cost  Still see new protection and control equipment installed at sub-station.  Reclosers will provide better system reliability for customer, i.e. momentary power outages will be handled automatically.  Equipment will be SCADA-capable.		

### **Substation Assessment Report**

The following pages contain a copy of the 3<sup>rd</sup> party Substation Condition Assessment Study that was commissioned by WNP in 2013. This report identifies deficiencies in the substations that require attention. Page 2 of the report states the concern regarding the age of these substations (i.e. two substations being over 40 years old) and hence the requirement of a strategy for replacement of Substation MS2.

Note: (Appendix 5 includes an extended version of the Substation Assessment report)



### 1 INTRODUCTION

As part of Wellington North Power's (WNP) Asset Management Program, Costello Associates Inc. has been engaged to provide a preliminary assessment of six (6) municipal distribution substations. This assessment is based on visual inspections and limited maintenance records that were available at the time of the inspections.

This initial assessment is intended to provide the foundation for an ongoing program that includes capital planning, periodic maintenance, inspections, and testing.

### 1.1 Goals of Asset Condition Report

Asset management plans are necessary to provide a long term, systematic approach to system planning, as well as managing business and operational risk. Utilities utilize strategies for replacing aging assets, taking into consideration factors such as health and safety, environment, asset condition, life expectancy, and risk exposure.

As part of the overall asset condition process, the assessment of the condition of WNP's municipal substations can be used to prioritize stations rehabilitation and replacement projects, based on electrical condition, health and safety issues, and age.

### 1.2 Criteria for Substations Assessment

All stations were field inspected and assessed based on a model that was developed by Thunder Bay Hydro, with minor changes based on our own experiences. This model has been promoted within the Electrical Distributors Association (EDA), and has been submitted to the Ontario Energy Board (OEB) by several Local Distribution Companies (LCD's).

In determining the overall condition of a station, the evaluation model considers three main areas of concern:

- Public Safety
- Worker Safety
- · Risk of Major Equipment Failure

Classification ratings of the above categories are as follows:

- Blue excellent condition, No mitigation is required for twenty or more years.
- Purple –good condition. No mitigation is required for eleven to twenty years.
- Yellow average condition. Mitigation is required between four and 11 years.
- Orange fair condition. Mitigation is required between two to three years.
- Red poor condition. Mitigation is required immediately, within one year.

In the cases, maintenance and safety issues may degrade the condition classification on a temporary basis. Once corrective action is taken, the condition classification may improve.

### 1.3 Summary of Stations Deficiencies

Deficiencies in the stations area can be classified in three main areas: age, environmental, and public/worker safety.

### 1.3.1 Age

Major substation equipment such as power transformers and switchgear generally has a life expectancy of forty (40) years. Other equipment, such as insulated feeder cables, protection systems, batteries, and building structures may have shorter life expectancy. Life expectancy can often be extended with regular maintenance.

The age of two of the pieces of major substation equipment assessed are over 40 years with one approaching 50 years. Two more are classed between 25 and 30 years and the two newer are less than 10 years old. Clearly the age of some of these stations is a concern, and will require a strategy for replacement.

### 1.3.2 Environment

The common of environmental concern in substations is PCB contamination. To the best of our knowledge WNP has no contaminated substation transformers. We have no knowledge if older transformers were once PCB contaminated and cleaned. If so, it is possible that the soil in some of the substations has been contaminated with PCB's as a result of minor transformer leaks. No soil analysis was performed as part of this assessment. It is expected that in the event that any substation be decommissioned, a detailed soil study would be completed and any problems be dealt with in accordance with applicable regulations.

A minor environmental concern with a few stations is the close proximity to storm drains and ditches. Should there be a catastrophic failure of a power transformer, none of the WNP stations have oil containment features. It is therefore possible that a large quantity of transformer oil may be released. The utility would be held accountable to clean up such a spill and the costs for cleaning a spill into a waterway would be substantial. Where applicable, this poses a significant environmental risk, and therefore stations in proximity to water, ditches, or storm drains may want to be considered for oil containment

The use of oil containment systems in small distribution substations historically was not considered necessary. However, we strongly believe that the benefits of oil containment outweigh the present-day risks and liabilities associated with a major oil leak. We recommend that WNP install oil containment as part of any stations rehabilitation work and on any new stations constructed in the future.

### 1.3.3 Public and Worker Safety

Public and worker safety is often considered the highest priority for any electric utility. Any station with a public safety issue automatically resulted in the lowest "Code Red" classification. Serious worker safety issues also attracted this classification. It should be noted that in some cases the work required to remedy safety issues is minor, and could be completed very quickly. These stations could then be reclassified to a more favorable rating.

Common safety issues observed include gaps in perimeter fences (public safety), climbing hazards near fences allowing possible access to station yard (public safety), lack of fence grounding (public and worker safety) and missing locks on station equipment (public safety).

Several substations may have problems with their transformer neutral connections. It is recommended that this be further investigated by engineering and maintenance personnel during planned maintenance.

The Mt. Forest MS-4 station was found to have a transformer neutral wire connected only to the ground grid. This is extremely dangerous to the public and workers and therefore it is recommended that the station be de-energized immediately.

The Arthur MS-5 station was found to have a communication cable connected between the station power meter and a radio located in a nearby building. The shield on the cable can transfer high voltages from the station to the nearby building and is an extreme safety hazard. This cable should be removed and replaced with a fiber optic cable.

### 1.3.4 Nomenclature

All operating equipment must be clearly labeled with unique operating nomenclature. This is required as per the Utility Work Protection Code in order to ensure that utility personnel can clearly identify the apparatus that is to be operated.

The nomenclature that is presently in place is a combination of old and new labels, with some apparatus having multiple designations, some with no designations and some designations that only reference the general area that the apparatus feeds.

We recommend that WNP develop a nomenclature strategy as a high priority project and to deploy updated nomenclature as soon as possible.

### 1.3.5 Maintenance Activities

WNP has been performing regular maintenance on its substations. Various local contractors have been employed to do this work over the past number of years. It appears as though the majority of the maintenance work is consistent with industry standards.

Several serious deficiencies we found were not noted in any of the recent test reports. We also noted that in several instances, test reports were incomplete or test results indicated potential serious conditions but the apparatus was re-energized without remediation.

We recommend that WNP continue with performing regular maintenance activities, and work with qualified contactors accustomed to working in utility environments and to industry-recognized standards.

### 2 SUBSTATION CONDITION ASSESSMENT SUMMARY

### 2.1 Mt. Forest MS-1 Substation

The Mt. Forest MS-1 substation transformer was installed in 1988 and therefore should still have at least 10 or more years of useful life remaining. The transformer has higher than usual CO and CO₂ levels, which is usually attributed to excessive loading. These gas levels have not increased in the past seven years, which may indicate that the transformer has not been routinely overloaded in that time. The transformer may however have suffered some loss of life.

The station appears to be in good operating condition. There are several maintenance issues noted in the attached deficiencies section. Nomenclature requires review and updating.

The station has been assessed to be a "Red" condition, but with some maintenance work, its rating will improve to "Yellow".

### 2.2 Mt. Forest MS-2 Substation

The MS-2 station is over 40 years old and has several potentially serious safety concerns Diagnostic maintenance testing also indicates that there are potential concerns with the reliability of the main 5kV switchgear and some of the feeder cables. This station is a candidate for major rehabilitation work.

The station perimeter fence is falling over in places, and the ground around the bottom of the fence fabric has been eroded in several places. Attempts have been made to block the fence gaps with wooden timbers. In our view this fence should be replaced immediately.

The nearby Canada Post mailbox is within arms-reach of the station fence, and it is possible that someone could receive a shock if they simultaneously touched the fence and mailbox. The mailbox should be relocated away from the station fence.

The station also requires several padlocks to be placed on equipment to prevent access to high voltage areas. As with all stations, the operating nomenclature requires updating as soon as possible.

The MS-2 substation has been assigned a rating of "Red", which will improve to "Yellow" once the safety issues are resolved and switchgear deficiencies are corrected.

### 2.3 Mt. Forest MS-3 Substation

The Mt. Forest MS-3 substation contains a transformer that was refurbished in 1988. Oil sample tests show rising CO level, likely due to excessive loading, dropping CO2 levels and rising combustible gas levels. Due to these results it is recommended that it be sampled and tested every 4 months.

History shows that rewound transformers do not usually attain the average service life of 40 years as with new ones. Due to this fact coupled with the changing gas levels in the coolant oil, plans should be made to exchange the transformer in the coming years.

Diagnostic maintenance tests show that there may also be concerns with feeder cables. Due to these test results, it is recommended that these pieces of equipment also be considered for replacement in the near future.

The majority of the safety issues with this station are similar to the others. Padlocks must be placed on power transformer tap changers and high voltages cabinets, grounding and bonding must be added or corrected, perimeter yard maintenance must be performed and as with all stations operating nomenclature must be updated.

The Mt. Forest MS-3 station has received a "Red" rating due mainly to diagnostic testing results of the transformer and feeder cables. Once safety and equipment concerns have been resolved, the station should receive a rating of "Orange".

### 2.4 Mt. Forest MS-4 Substation

The Mt. Forest substation is the oldest of the utility at an age of 49 years. It also shares many of the same issues as other stations in terms safety and shows signs of age. It does although contain a much more serious issue. The system neutral has been attached only to the station ground grid, which in extremely dangerous. Due to this fact, it was recommended that the station be de-energized during inspection. The neutral system must be re-engineered prior to re-energization.

Inspection revealed that other equipment deficiencies are also present. The transformer secondary side cables are improperly installed and are putting pressure on the transformer radiator. Furthermore, test results also suggest that there are problems with feeder cables.

Remaining problems found in the station are similar as in the other stations. There are missing locks on power transformers and distribution-side switchgear, wiring code violations, bonding and grounding issues and operating nomenclature must be updated.

The station is classified as "Red" due to the age of the transformer, the system neutral connection, and diagnostic test results. This station is a candidate for replacement.

### 2.5 Arthur MS-5 Substation

The Arthur MS-5 substation contains a transformer that was rebuilt in 1994. The station age is estimated to be much older. The transformer itself seems to only require minor maintenance to fix problems described in the deficiencies section. Diagnostic maintenance testing suggests that there is very low insulation resistance in both bus and cables and therefore should be investigated and repaired.

The transformer pad appears to be deteriorating. There is a good deal of "honey combing" which has been patched over the years. It is recommended that the pad be further inspected by a qualified civil engineer.

A serious concern noted was the communication cable connected between the station power meter and a radio located in a nearby building. The shield on the cable can transfer high voltages from the station to the nearby building and is a shock hazard. This cable should be removed and replaced with a fiber optic cable to provide electrical isolation.

The Arthur MS-5 substation is currently not outfitted with any oil spill containment, which could be problematic in the case of catastrophic transformer failure. There is an exposed storm drain located directly across the road. If a spill was to occur and oil made its way to the storm drain, the cleanup costs could be substantial. Therefore it is recommended that an oil containment system be planned for this station.

In addition to the common issues such as missing locks, inconsistent nomenclature and perimeter yard maintenance, there are climbing hazards that must be resolved. There must not be anything near the substation fence that could permit climbing and ease of access to the yard.

Considering the transformer was rebuilt in 1994 it should still have sufficient life remaining. This station has been given a rating of "Orange" but may be upgraded to a "Yellow" once maintenance issues have been remedied.

### 2.6 Arthur MS-6 Substation

The Arthur MS-6 station transformer was installed in 2010. The station appears to be in reasonable condition, although there are minor maintenance issues.

In general the public safety of this station is very good other than the metal fence that is attached to the substation fence. This metal fence must be disconnected as soon as possible. A wooden fence may be inserted in between the substation fence and metal fence to provide isolation.

The remainders of the problems are again similar as for other stations such as missing padlocks, inconsistent normenclature, improper grounding and bonding, wiring code violations and the necessary disposal of an obsolete switch stick

As stated above, the condition of this station is generally quite good. The station received a "Red" rating, but considering its equipment should provide many more years of reliable service, once the maintenance and safety issues are resolved it should be assessed a rating of "Purple".

### 3 RECOMMENDATIONS

### 3.1 Maintenance Program

A regular maintenance program is critical to ensuring the safety and reliability of station assets. Regular maintenance, coupled with periodic (i.e. monthly) site inspections are commonplace in Ontario LDC's. Municipal substations are typically withdrawn from service for maintenance every three to five years, depending on the condition of the equipment and the resources available to the utility.

It is recommended that WNP continue a regular maintenance schedule on its substations as it has done in the past. It should be emphasized that it is important to work with qualified contractors accustomed to working in a utility environment and to industry-recognized standards

### 3.2 Aging Plant

As mentioned above, two substations have exceeded the average life expectancy for this type of equipment. Two other stations are approaching their end of life. A strategy is required to plan for the replacement of these assets. The replacement cost of substation equipment is significant, and costs have been rising steadily over the past few years due to the increase in cost of metals.

The replacement of station assets should be forecasted, based on the safety, reliability, and age of the stations, in concert with consideration for distribution projects. Ongoing periodic condition assessments should be performed to determine the priority of replacement projects.

### 3.3 Feeder Protection & Coordination

We recommend that WNP perform a detailed review of the 44 and 4.16 kV feeder protection and coordination. There is some evidence to suggest that some of the distribution system may not have adequate overcurrent protection. This is a public safety issue, and poses a risk to WNP equipment.

### 3.4 Budgeting for Station Replacement

A long term forecast should be developed to plan for the budgeting and execution of station replacement projects. In conjunction with other distribution projects, the costs and timing of station projects should be coordinated and prioritized to provide a long term plan for all aspects of the distribution system.

### 4 CONCLUSION

There are numerous safety issues with the WNP substations that should be immediately addressed. A short term work plan is required to make necessary repairs as part of the 2013 operating program.

In addition, the general age and condition of the stations warrant the development of a long term replacement/ rehabilitation program.

### **Incremental Capital Project Expenditures**

The table below contains a breakdown of the estimated capital expenditures for the incremental capital project of building a new substation (MS2) at Mount Forest. These costs were provided by a 3<sup>rd</sup> party (Costello Utility Consultants) and WNP anticipate having the asset in-service in the Quarter 4 of 2014.

### **Incremental Capital Project Expenditures**

/ellington North Hydro - 44 kV Substation Concept Budget Costello Sept 20 2013								
	Wellington North Hydro - 44 kV 5 MVA Substation Concept Budget							
	Design Outdoor 44 kV Padmounted Switchgear, Underground Construction 15kV Padmounted Switchgear, Padmounted Reclosers and Isolating Switches Underground 15 kV Risers x 3							
	Voltage Installed Capacity Switchgear Type Main Breaker Feeder Breakers Schedule	44 - 4.16/2.4 kV 5 MVA Padmount none 15 kV 630A Solid Dielectric Re Fall 2014	close	ers x 3				
	Component		Co	st Detail	Sumi	mary		
1)	Property Costs 1 1) Sale price 1 2) Legal and Surve	ying costs	\$ \$	- 15,000				
2)	Engineering & Desi 2.1) Preliminary engi 2.2) Environmental S 2.3) Geotechnical Inv	neering creening	\$ \$ \$	16,000 5,000 15,000	\$	15,000		
	2 4) Grounding 2 5) Detailed enginee 2 6) Site Meetings 2 7) Site Supervision 2.8) Protection Study	& Project Management	\$ \$ \$ \$	30,000 80,000 3,000 20,000 7,500				
3)	Major equipment 3 1) Power Transform 3.2) Station Recloser 3.3) 44 kV PM Switcl 3.4) S&C Switchgear	er 5 MVA s (3)	\$ \$ \$	240,000 90,000 55,000 105,000	s	176,500		
	3 5) Prefab Control S 3 6) Station Service 3 7) 44 kV Cables/Te 3 8) 15 kV 500 MCM 3 9) Solid Blade Rise 3 10) Scada RTU	rminators est 120m Cables/Terminators est 550m	\$ \$ \$ \$	30,000 7,500 20,000 125,000 6,000 45,000				

	Component	Co	st Detail	Sum	mary
4)	Civil Construction				
	4.1) Construction Power	\$	7,500		
	4.2) Clearing, Grubbing, Grading, compacting, fill	\$	60,000		
	4.3) Road entrance/paving	\$	10,000		
	4.4) Oil Containment	\$	15,000		
	4.5) Duct Banks	\$	120,000		
	4.6) Concrete Foundations	\$	75,000		
	4.7) Fence & Stone	\$	100,000		
				5	387,500
5)	Electrical				
•	5.1) Grounding	\$	30,000		
	5.2) 44 kV Dip Pole	\$	2,500		
	5.3) 4.16 kV Riser Poles	\$	7,500		
	5.4) Installation of Transformer	\$	5,000		
	5.5) Installation of Reclosers	\$	6,000		
	5.6) Power & Control Cabling	\$	7,500		
	5.7) Station Service Panel	\$	3,000		
	5.8) Commissioning	S	22,000		
	,			\$	83,500
6)	Miscellaneous				
•	6.1) Mobilization, Bonding, Insurance	\$	50,000		
	6.2) Fees & Permits	\$	5,000		
	. ·			\$	55,000
7)	WNP Staff Costs				
	7.1) Lines	\$	5,000		
	7.2) Stations	\$	-		
	7.3) Engineering	. \$	5,000		
				\$	10,000
	Total			\$	1,451,000
	Contingency 10%			5	145,100
	Budget Total			\$	1,596,100

The above table illustrates that the amount being requested through the Increment Capital Module (\$1.6m) are directly related to the cause. Furthermore, these project expenditures, provided by a 3<sup>rd</sup> party consultant (Costello Utility Consultants) are based upon the knowledge, expertise and recent insight gained from undertaking a very similar project a neighbouring LDC.

Costello Utility Consultants were commissioned to by a neighbouring LDC to provide technical information and budgetary estimates for an asset condition assessment of six of its Distribution Stations which resulted in the rehabilitation of one of its' substations. Attached below are pictures of the LDC's new substation which is of the same standard and design that WNP is looking to build as the MS2 substation replacement

Neighbouring LDC "new" Substation - photograph 1



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 75 of 219

Neighbouring LDC "new" Substation - photograph 2



### **Proposed 2014 Capital Spending Plan**

In WNP's Capital Expenditure plans (CapEx), the LDC has provisioned for approximately \$240,000 per year from 2014 onwards to replace major components of the substations. It should be noted that WNP filed a view of its Capital Expenditure plan for the period 2013 to 2018 in its' Cost of Service application (EB-2011-0249 - Exhibit 2, Tab 5, Schedule 7 pages 254-257 contain tables, tables 2-60 to 2-65) which cited the provision for substation investment/refurbishment.

(Appendix 4 contains tables summarising WNP's CapEx plan for the period 2013 – 2018 reflecting the annual CapEx budget of \$760,000 that was approved in EB-2011-0249, with the substation items highlighted.)

In studying the 3<sup>rd</sup> party Substation Condition Assessment Study (June 2013), WNP has reviewed its 2014 Capital Expenditure (CapEx) and has adjusted its plans to cater for the Incremental Capital Project of building a new substation to replace its aged MS2 substation.

In summary, the 2014 CapEx plan shows:

- a) \$124,000 identified as discretionary capital spend. This is capital funding for projects that can be deferred to a later period that do not impact customers or jeopardise the safety and reliability of WNP's distribution system;
- b) \$636,000 identified as Discretionary spend of which \$240,000 relates to provision of substation major asset component replacement which was included in WNP's original 2014 CapEx plan.

### 2014 Capital Spending – Discretionary and Non-Discretionary

WNP has prioritized its capital project plan into discretionary and non-discretionary spending by considering a number of factors. Among these factors was the age of the existing assets, external project drivers (i.e. 3<sup>rd</sup> party contractors who already have 2014 plans and require WNP support, such as pole-line re-building projects that are driven by the Township Roads department) as well as proactive system improvements which see WNP's continually evolve to remain current given modern standards.

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment

Page 77 of 219

The main prioritization factors that were used to determine non-discretionary and discretionary capital spending are:

- Asset Age Proactive replacement prior to failure (reliability) as well as replacement inline with OEB approved depreciation rates;
- External Project Drivers Capital work in conjunction with others / subdivision developers, Township road projects, Meter certifications;
- 3. System Improvements Replacements that improve system functionality and better prepare WNP's system for future initiatives (smart grid, system enhancement load loss). These items are extremely important to WNP's future system reliability, yet WNP feel these capital items could be deferred to the next fiscal year.

Furthermore, WNP took into consideration the following points:

### Annual Capital Budget:

- These budget amounts are used by WNP to address important capital work that needs to immediately be implemented, i.e. rotted wood pole or leaking transformer resource.
- Drivers: immediate need for safety and reliability or requested by customers.

### Pole Line Projects:

- These budget amounts are used by WNP to address pole line rebuild projects that need to be implemented to bring existing plant to modern day standards.
- Drivers: aged assets and proactive replacement of system assets

### **Underground Distribution:**

- These budget amounts are used by WNP to address UG rebuild projects that need to be implemented to bring existing plant to modern day standards.
- Drivers: aged assets, proactive replacement of system assets, and subdivision work as requested by customers/contractors

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 78 of 219

### **Sub-station Assets:**

- These budget amounts are used by WNP to address aged sub-stations that are in need of significant work and bring existing plant to modern day standards.
- **Drivers**: aged assets, proactive replacement of system assets

### Transportation:

- This budget amount is to replace an aged work truck.
  - Drivers: aged assets, proactive replacement of major assets used to maintain a safe and reliable system at WNP

The table on the following page shows the revised 2014 CapEx plan taking into account discretionary and non-discretionary capital items.

(Note: a copy of this 2014 CapEx plan has been filed with this application, reference: WellingNorth\_EB-2013-0178\_2014 CapEx Plan.xlsx)

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 79 of 219

## 2014 CapEx Plan - Discretionary and Non-Discretionary Items:

1						I MOLE	Weimigton North Fower Inc. Capital Budget: 2014		
Yes	Rent	Manne	Description	Percent	l°	Discontinuary or News Observationary	Comments	Discretionary	Non Discontinuery
Annua	Annual Capital Projects:	(ots:			l				
2014	7014-001	Annual Polar Beginderrept	Replacement of hydra poles in distribution system	Sag poo	io do	Non- Discretionary	Budget before provides a prolific or White to replace pole vises to in "at equired" hars. White projectively patroit and "harment" these was the several go determine determine the result of the several go determine the result of the result of the several go determine the result of the resul		\$30,000
202	2014-002	Transformer Regulacement	To replace transferment in the distribution system	990'055	8	Non- Discretionary	Budget bucket provides capital finding for While to replace transformer assists on an "as required" busis. While proactively inspects our transformer assists, in 52b, While built continues from service as well as receiving the transformers from service as well as receiving the transformers from service. Supports while statements when service where while spread receiving the while spread in the service as while statements when service are whose services are while services as well as the constituting to the school of the service of the servic		000 069
2010	2037-003	New Services	Provident for installation of equipment for new services	\$30,000	8	Non- Discretionary	Mescapary to meet customer needs, requirements and expertations		\$30,000
2014	3034-004	Meters	Commercial and Inductival Meler Replacement	000"015	8	Non	Supports WNP's Agot! Management strategy to replace industrial meters transformers that have reached (or passed) thair frenest supply life according to the substrate debrecation rates)		\$10,000
2014	2014-005	Meters	NEX2 Repiscement Project Repiscement of 750 Meters J/A of Meter Population		80	Discretionary	Supports WNA's requirement to remain scringliant with Measurement Canado. In 2016, this project will only be executed if Measurement Canada does not extend étiter's RDA's spell Measurement Canada does not extend etiter's RDA's spell Me. A decision on the spell Measurement Canada does not extend a spell measurement.	000,572	
ole Li	Pole Line Projects:		Programme and the state of the	1131,000					
MILE	2014-006	ระคาญเกล ร์สะคงา	Pole Line Rebuild 3.5 Poles	\$95,000	# O	Non-	This around is a pole in replacement and complements WNP's asyst management plant. In previous years, this project was additioned and has been re-condisid for 2014		\$25,000
3079	2014-007	Arterianne Street	Pole Une Return	424 2000		Non-	SUPPORT WAYP'S ASSET MANAGEMENT BUSINESS TO DIOCHTIVE IV PROJECT DITTELLUM SSSETS DEFORE TRILLING TO INCREASE SYSTEM FRILLING AND		
91026	3014-009	Flize Street Extension	♦ Pales New Pole Line Install from Tucker to limit of Arthur Village	odorets	8 8	Discretionary	customer service. WHD would take to complete this protect in the neat few years, however, there is not an immediately known safety or equidition relating the vice complete to could be robbilly when tradeline. Strington under construction as this robbins way might be affected.	\$23,000	\$23,000
2034	2014-010	Proderick 51 E. Pole Replacement	Protes Mediacerrecon	\$75,000	d d	Non- Discretionary	Support's Wine's Asset Management strategy to replaced aged distribution assets with new construction built to current standards. This support's Wine's standards and all the support of the County's road and account of the support of the County's road and account of the support of the County's road		875,000
			Sub Total	Sub Total \$150,000			איניין איניין איניין איניין מיניין מיניין מיניין איניין איניין איניין איניין איניין איניין איניין איניין איניי		
Inderg	Iround Distrib	Underground Distribution projects:							
2014	20,4-013	Eustiniew Drive	UG Rebuild 3 Pad-meuni TX	\$90,000	10 40	Ngn. Discretionary	Supports WNP's saset Management Strategy. WNP has these transformers to Jall and general to get more life out of the vansformers along Fastsiew. WNP will be leoking to hablede "live front" Bad. mount transformers in 2014.		310,000
Mgc.	2014-014	Avenue	Avenue	\$15,000	OR DI	Non- Discretionary	This project is being deptgrad in the Fall 2013 for Spring 2014 execution, Support's WNP's Asset Management (trategy as well as removes a WNP primary cable from private property.		\$15.000
1034	3014-013	New Subdivipion Capital Work	BLDT GEAD	\$20,000	ā B	Discretionary	This project is hard one to predict because in its driven by other parties. Whe does orded to have some young work associated with new- development in 2016.		\$20°000
ubsta	Substation Asset Projects:	ojects:			-				
2034	#10 +10t	Major Sub-Station Project	Meunt Ferens	Sauto,	00	Non- Disprettoneny	Supports Whit's asset Management strategy by procedively replacing sub-station assets believe they fait. While hes MISS (1972) and Miss (1984) which have been studied for replacement. The existing equipment at MSs has been identified as sub-standard.		\$240,000
ramap	Transportation projects	sots	MPO 1008	E349 800					
2019	7034-037	Replacement Truck 20 2008 Ford	Truck is tin years old Sab Taar	\$30,000	ā o	Non. Discretionary	Truck will be 8 years old and will have readwed its typical useful life (according to the Kinecine depotation rates).		\$310,000
dmin	Administration Projects	ejo.							
2034	2014 008	WNP internal Server	Ungrade Name CIS Server Handward	popiets	ā	Non-	Current April, CT Jarrer 15 2009 model and requires replacing to improve procussing speed for users		\$20,000
203.6	1014-009	Engineering Computer	Enhanced System for AutoCAD	330,000	Δ	Discretionary	Support's WNP's need to remain current with the technical software that support our business activities. There is surrently not a software package selected for this replacement and this project could be deterred.	\$20,000	
2034	3014 010	Smarl Meter Server	Replace sorver serving Sister Smart Meters	8	ŏ	Discretionary	Server to be replaced in 2013 as part of AMI Operator Transition. This maybe completed in 2013 as part of WNIP's AMI Operator transition plan to switch provider	2	
2034	2014-011	Workstatten replacement	Simplicyce workstations, see on a rotation for separatement 2 sents aroundly	\$4,000	ō	Non-	Workstallons are essential tools for office staff and more reporting and data is looking down processes - therefore latest mechines need more another these		54,000
2014	2014-013	Pottage and Meding Stuffer	Replace parents medel	927,000	Z	Non-	Machine is required to assist with monthly billing assivity and was in service in September 2003.		\$27,000
2014	3014-033	Chidata Permise	Colour Laner Drinter 346 Total	\$4,000	5.5	Discretionary	Machine is in giod shabe and parts aveilable. Recoulty servicent	000 1	
Sulfdin	g Renovation	Building Renovations / Build Projects:							
1034		Busiding Renovations	Building Maintenance Projects	13, 000	8	Non- Discretionary	Supports WNP's need to provide a safe and healthy work environment for suit. WNP had a outliding feestballing study commendations for improvement were noted concerning our existing lacility.		928,000
			001	TO ESTA	7.1		Total Divortionery Capital Spenish for 2014	\$324,080	
			Planned Estimated Capital Spend Shid,000	5764,000			Total Non- Discretorary Conital Spend for 2015		\$636.000
		Critecia;		- 1	the second		MSZ Subbistion Replacement (Mess: provision of SaRO,000 made in 2014 CapEs plan for Substation component replacement)		\$3,360,000
		CASSACTION CONTRACTOR CONTRACTOR CO.	ACTION ACTIONS OF PRINT, CARTEST STREET, WHEN A STREET, THE STREET, ST	Ĭ	Tilbian rate as a new	SOTT, OF MANY AND	IN COLDY OUR CHILDRIDGE OF ANY CHARLESTY FRANCES		

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 80 of 219

### **Information Sheet**

WNP has completed the Incremental Capital Project Summary workbook and has submitted this information as part of the Applicant's 2014 IRM application.

### Note:

The Incremental Capital Project Summary workbook has been completed on the assumption of Alternative #2 being approved by way of this 2014 IRM application. (Alternative #2 is WNP's preferred solution – building a new substation with an estimated capital expenditure of \$1.60m).



### Incremental Capital Project Summary

WNP has included one project in its Incremental Capital Project summary. This project is the rebuild of the LDC's MS2 substation at 398 Foster Street in Mount Forest which an anticipated capital expense of \$1,600,000. The table below summarises the capital cost, amortization expense, CCA Class and CCA Rate.

It should be noted that WNP adopted the mid-range "Kinectrics" depreciation rates in January 2012 with substations having a typical useful life of 45 years (as per WNP's Cost of Service application EB-2011-0249, Exhibit 11, Schedule 3, table 11-9 page 837)) (Reference: The Asset Depreciation Study for the OEB by Kinectrics Inc. (dated July 8, 2010 – Report No.: K-418033-RA-001-R000))



### **Incremental Capital Workform:**

### **Information Sheet**

WNP has completed the Incremental Capital Workform (v1.1) and has submitted this information as part of the Applicant's 2014 IRM application.

### Note:

The Incremental Capital Project Summary workbook has been completed on the assumption of Alternative #2 being approved by way of this 2014 IRM application. (Alternative #2 is WNP's preferred solution – building a new substation with an estimated capital expenditure of \$1.60m).

	ral Capital Workform or 2014 Filers
	VERSION LT
Applicant Name	Wellington North Power Inc.
Service Territory Name	
Application Type	IRM3
LDC Licence Number	ED-2002-0511
Applied for Effective Date	May 1, 2014
Stretch Factor Group	V
Stretch Factor Value	0.40%
Last COS Re-based Year	2012
Last COS OEB Application Number	EB-2011-0249
ICM Billing Determinants for Growth - Numerator	2012 Re-based Forecast
ICM Billing Determinants for Growth - Denominator	2011 Actual

# Rate Class and Re-Based Billing Determinants & Rates

The table below shows WNP customers / connections, billed (kWh or kW) as well as service charge and volumetric distribution rates as approved in the Applicant's most recent cost of service application (EB-2011-0249)



## Rate Class and Re-Based Billing Determinants & Rates

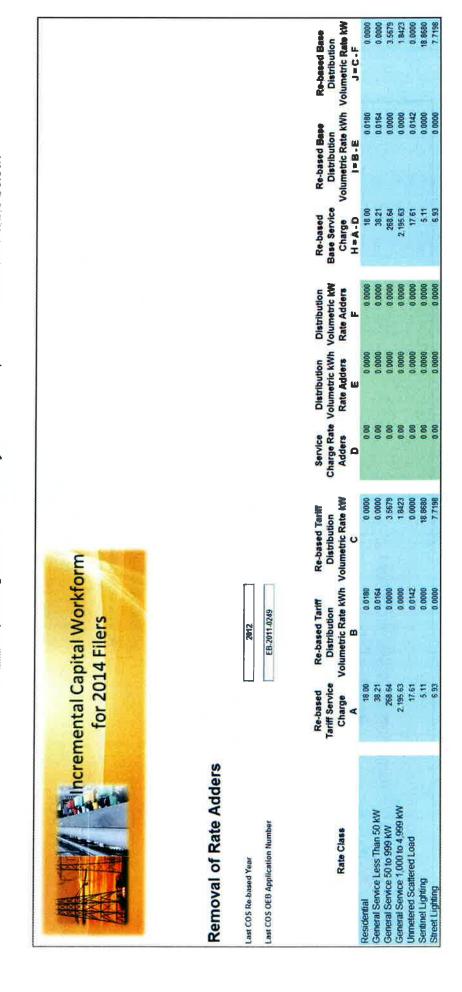
Select the appropriate Rate Groups and Rate Classes from the drop-down menus in Columns C and D respectively. Following your selection, all appropriate input cells will be shaded green. Please input the billing determinants and base distribution rates from your last cost of service based rate application.

	Last COS Re-based Year			2012					
	Last COS OEB Application Number			EB-2011-0249					
Rate Group	p Rate Class	Fixed Metric Vol	Vol Metric	Re-based Billed Customers Re-based Re-based or Connections Billed kWh Billed kWh BILL CONNECTIONS B C	Re-based Re-based Billed kWh Billed kW	Re-based Billed KW	Re-based Tariff Service Charge D	Re-based Tariff Re-based Tariff Distribution Re-based Tariff Distribution Service Charge Volumetric Rate kWh Volumetric Rate kW D	Re-based Tariff Distribution Volumetric Rate kW
RES	Residential			3.150	24.876.519	21 1 1 1 1	18.00	0.0180	THE RESERVE THE PERSON NAMED IN
GSLT50	General Service Less Than 50 kW			489	10 703,832		38.21	0.0164	
GSGT50	GSGT50 General Service 50 to 999 kW			70	19,816,501	50.517	268 64		3.5879
GSGT50	GSGT50 General Service 1,000 to 4,999 kW			A STATE OF THE PARTY OF THE PAR	42 769 242	97,039	2 195 63		18423
USI	Unmetered Scattered Load	Connection		The state of the s	3,969		17.51	0.0142	
Sen	Sentinel Lighting	Connection	KW	TREAT THE PARTY OF	29,261	80	5.11		18 8680
ळ	Street Lighting	Connection	KW	988	711.946	1,907	683		7 7198

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 84 of 219

### Removal of Rate Adders

WNP has no Rate Adders and is therefore not requesting the removal of any Rate Adders, as illustrated in the table below:



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 85 of 219

## Calculation of Re-Based revenue from Rates

The table below shows the revenue derived from the Service Charge and Distribution rates that were approved in the Applicant's most recent cost of service application (EB-2011-0249):

	for 2014 Filers	Incremental Capital Workform for 2014 Filers	form											
Calculated Re-Based Revenue From Rat	Revenue	From	Rates											
Last COS Re-based Year		2942	_											
Lest COS OEB Application Number		EB-2011-0249	r=1											
	Re-based Billed Customers			Re-based	Re-based Base Re-based Distributio	Re-based Base Distributio		Distributio Distributio R R Volumetric Volumetric	Distributio Distributio			Distributio Distributio n n n Volumetric Volumetric	Distributio n Volumetric	
Rate Class	Connectio	Connectio Re-based Re-based  Billed kWh Billed kW	Re-based Billed KW	Service Charge	Volumetric Rate kWh	Volumetric Volumetric Rate kWh Rate kW	Service Charge Revenue	Revenue kWh	Rate Revenue	Requireme inf from Rates	Service Charge % Revenue	Revenue kWh	Rate % Revenue KW	Total % Revenue
Residential	3,160	24	F	18.00	0 0 180	00000	682.560		0	1,130,337	60.4%	39.6%	%00°	51.0%
General Service Less Than 50 kW	489	10,703,832		38.21	0.0164		224,216	175,543	0	399,759	56.1%	43.9%	500	18.1%
General Service 50 to 999 kW	40	19,816,501		268.64	0 0000	3.5679	128.947	0	180,241	389,188	41.7%	%00	58.3%	14.0%
General Service 1,000 to 4,999 kW	4	42,769,242	97,039	2,195.63	0 0000		105,390	0	178,775	284,165	37.1%	%0 0	62.9%	12.8%
Unmetered Scattered Load		3 969		17.61	0.0142		211	98	0	268	78.9%	21.1%	%00	0.0%
Serbnel Lighting	77	28,261		6.11	0.0000		1,042	0	1504	2,547	40.9%	*00	59.1%	0 1%
Oregin Lighting	200	111 340	1,507	0.00	0.000	17.136	73,580	0	11 725	86 404	83.3%	%00	18.7%	4.0%

### **Detailed Re-Based Revenue from Rates**

The table below is worksheet "B1.4 Re-Based Rev Req" from the Incremental Capital Workform (v1.1) with the amounts corresponding to the OEB Revenue Requirement workform that was review and approved by the Board as pat of the applicant's most recent cost of service application (EB-2011-0249). (A copy of the Revenue Requirement workfom has been filed as part of this IRM application).

Incremental Capital Work	cform	1				
for 2014 Filers	Total A					
THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRE	ate All					
Detailed Re-Based Revenue From Rates	•					
Last COS Re-based Year	[	2012	]			
Last COS OEB Application Number		EB-2011-0249	1			
Applicants Rate Base				Rate I	Re-based Amount	
Average Net Fixed Assets				reate	te-based Amount	
Gross Fixed Assets - Re-based Opening	\$	12,143,669	A			
Add: CWIP Re-based Opening Re-based Capital Additions	\$	760,000	В			
Re-based Capital Disposals	-5	510,744	D			
Re-based Capital Retirements Deduct: CWIP Re-based Closing	S S	-	E			
Gross Fixed Assets - Re-based Closing Average Gross Fixed Assets	\$	12,392,925	G	\$	12,268,297	H=(A+G)/2
Accumulated Depreciation - Re-based Opening	\$	6,366,338	- 1			
Re-based Depreciation Expense Re-based Disposals	-S	387,630	J K			
Re-based Disposals Re-based Retirements	-3	309,511	L			
Accumulated Depreciation - Re-based Closing Average Accumulated Depreciation	\$	6,444,457	M	s	6,405,398	N = (1 + M)/2
Average Net Fixed Assets				\$	6,862,899	O = H - N
Norking Capital Allowance Working Capital Allowance Base	s	44.047.004	Р			
Working Capital Allowance Rate	3	11,617,281 14.0%	Q			
Norking Capital Allowance				\$	1,626,419	R = P * Q
Rate Base				\$	7,489,318	S = O + R
Return on Rate Base						
Deemed ShortTerm Debt % Deemed Long Term Debt %		4.00%	T	\$	299,573	W = S * T
Deemed Equity %		56.00% 40 00%	V	\$	4,194,018 2,995,727	X = S " U Y = S " V
Short Term Interest .ong Term Interest		2.08%	Z AA	\$	6,231	AC = W * Z AD = X * AA
Return on Equity		4 42% 9 12%	AB	\$	185,189 273,210	AD = X * AA AE = Y * AB
Return on Rate Base				\$	464,631	AF = AC + AD + AE
Distribution Expenses OM&A Expenses		1.500.000	^-			
Amortization	<b>5 5</b>	1,500,000 387,630	AG AH			
Ontario Capital Tax (F) 1 Z-Factor Tax Changes)	S	-	Al			
Grossed Up PILs (F1.1 Z-Factor Tax Changes) Low Voltage	\$ \$	2,033	AJ AK			
Transformer Allowance	\$	14,070	AL			
Property Tax	S	12,006	AM			
			AO	\$	1,916,739	AP = SUM (AG AO
levenue Offsets						
pecific Service Charges	-\$	57,043	AQ			
ate Payment Charges ther Distribution Income	-\$ -\$	26,047 54,537	AR			
Wher Income and Deductions	-\$		AT	-\$	149,992	AU = SUM ( AQ : AT )
Revenue Requirement from Distribution Rates				\$	2,230,378	AV = AF + AP + AU
late Classes Revenue						
ate Classes Revenue - Total (B1.1 Re-based Revenue - Gen)				\$	2,214,668	AW
ifferençe				\$	15,709	AZ = AV - AW
difference (Percentage - should be less than 1%)					0 71%	BA = AZ / AW

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 87 of 219

### Load Actual - 2011 Actual

The table below has been updated to show WNP actual load for 2011. This load will be used to compare against 2012 to calculate if there has been growth in the service territory served by WNP:

Load Actual - 2011 Actua	Actual											
Rate Class	Fixed Metric	Fixed Metric Vol Metric	Billed Customers or Connections	Billed KWh Billed KW	Billed kW	Base Service Charge	Base Distribution Volumetric Rate kWh	Base Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue KWh	Distribution Volumetric Rate Revenue	Total Revenue by Rate Class
			4	۵	v	۵	W	L	G-A-D-12	H-B.E	EC.F	1+H+D=7
Residential	Custorner	KWh	3,103	22,862,125	0	\$18.00	\$0.0180	20 0000	\$670,302	8	20	
General Service Less Than 50 kW	Customer	KWh	478	10.582.059	0	\$38.21	\$0.0164	00000 05	\$219.058	\$173.546	08	
General Service 50 to 999 kW	Customer	kW	88	•	60.617	\$268.64	20 0000	\$3.5679	\$123,574		\$216.275	
General Service 1,000 to 4,999 kW	Customer	kw	10	0	78,957	\$2,195.63	\$0.0000	\$1.8423	\$131,738	05	\$145.462	\$277,200
Unmetered Scattered Load	Connection	KWh		4.752	0	\$17.61	\$0.0142	\$0.000	\$299		20	
Sentinel Lighting	Connection	×	20	0	74	\$5.11	20 0000	\$18 8680	\$1,216	0%	\$1,405	
Street Lighting	Connection	kW	006	0	1,800	\$6 93	20 0000	ST 7198	\$74,844		\$13,895	\$88,739
									\$1.224.032	CER ARRA	4117 017	S

### **Current Revenue from Rates**

The table below has been updated to reflect WNP's current (2013) distribution rates (as approved in case EB-2012-0174)

Current Revenue from Rates	Rates															
				Current Base Distribution	Current Base Distribution	Re-based Billed		_	Current Base	Current Base Distribution Volumetric	Current Base Distribution Volumetric	i i	Service	Distribution Volumetric	Distribution Volumetric	9
Rate Class	Fixed Metric Vol Metric	Vol Metric		KWh RWh B		Connections	Billed KWN	Billed KW	Revenue G = A · D · 12	Revenue H - B - E		Base Revenue	Total Revenue	Revenue R= 1/8K	Revenue N=1.5K	Revenue 0=J/SK
Residential	Customer	KWD	Ш	0.0181		3,160		-	684.456	450,265		1 134.721	30.8%	20.3%	%00	51.1%
General Service Less Than 50 kW	Customer	KW	П	0.0164	NAME OF TAXABLE PARTY.	489			224,862	175,543		400,405	10 1%	7.9%	%00	18.0%
General Service 50 to 999 kW	Customer	KW				40			129,307	0		310,053	5.8%	%00	8.1%	14.0%
General Service 1,000 to 4,999 kW	Customer	KW	2,201.78		1.8475	4	42,769,242	_	105,685	0		284,965	4.8%	%0.0	8.1%	12.8%
Unmetered Scattered Load	Connection	KWI	17.66	0.0142			3,969		212	98		268	%0'0	%00	%00	%00
Sentinel Lighting	Connection	KW	5.12		18.9208	17	29,261		1,044	0		2,553	960.0	%0.0	0.1%	0.1%
Street Lighting	Connection	KW	6.95	A	77414	988	711,946	_	73,892	0		88,658	33%	%0'0	0.7%	4 0%
									1.219.459	625.864	376 300	2.221.623	54.9%	282%	16.9%	100 0%

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 88 of 219

### **Threshold Parameters**

The table below shows price-cap index variables which are pre-set in the Incremental Capital Workform model, based upon the "Stretch Factor Group" that was selected. For WNP, Cohort Group V was selected.

This table also shows that based upon the data inputs there was some growth of 1.44% between the years of 2011 to 2012:

Threshold Parameters			
Price Cap Index			8
Price Escalator (GDP-IPI)	1.60%		8
Less Productivity Factor	-0.72%		
Less Stretch Factor	-0.40%		
Price Cap Index		0.48%	
Growth			
ICM Billing Determinants for Growth - Numerator : 2012 Re-based Forecast		\$2,214,668	_ A
ICM Billing Determinants for Growth - Denominator : 2011 Actual		\$2,183,200	В
C		4 4407	C - A / D
Growth		1.44%	C = A/B

### **Threshold Test**

The table below is worksheet "E2.1 Threshold Test" from the Incremental Capital Workform (v1.1) and calculates how much CapEx is derived from current rates based upon the data inputs, growth and price cap variables being applied. Applying these variables, the Incremental Capital Module workform calculates that for WNP, the current rates will yield a CapEx of \$609,573:

Threshold Test				
Year			2012	
Price Cap Index			0.48%	A
Growth			1.44%	В
Dead Band			20%	C
Average Net Fixed Assets				
Gross Fixed Assets Opening		\$	12,143,669	
Add: CWIP Opening		\$	,	
Capital Additions		\$	760,000	
Capital Disposals		-\$	510,744	
Capital Retirements		\$	-	
Deduct: CWIP Closing		\$	_	
Gross Fixed Assets - Closing			12,392,925	
Average Gross Fixed Assets		\$	12,268,297	
Accumulated Depreciation - Opening		\$	6,366,338	
Depreciation Expense		\$	387,630	D
Disposals		-\$	•	_
Retirements		\$	-	
Accumulated Depreciation - Closing			6,444,457	
Average Accumulated Depreciation	9	\$	6,405,398	
Average Net Fixed Assets	- 0	\$	5,862,899	E
Working Capital Allowance				
Working Capital Allowance Base		\$	11,617,281	
Working Capital Allowance Rate	34		14%	
Working Capital Allowance	- 23	\$	1,626,419	F
Rate Base	-3	\$	7,489,318	G = E + F
Depreciation	D	\$	387,630	Н
Threshold Test			157.26%	I=1+(G/H)*(B+A*(1+B))+C
Threshold CAPEX		\$	609,573	J=H*1

The above analysis demonstrates that the materiality threshold test has been met.

### **Summary of Incremental Capital Projects:**

The Threshold Test produced a value of \$609,572. WNP's total nondiscretionary capital budget for 2014 is \$1,996,000 which includes \$1,600,000 to rebuild its MS2 Substation at 398 Foster Street in Mount Forest

WNP's Threshold CapEx is calculated as \$609,572 in the Incremental Capital Model which results in \$1,386,427 of Incremental Capital CAPEX when compared to the total Capital Budget for 2014. WNP is requesting an Incremental Capital amount for the ICM Rate Rider calculation of \$1,360,000 as shown in the table below:

	Calculation of Eligible Incremental Capital Amount		-	
	2014 Non-Discretionary Capital Budget (Including ICM Projects)	\$1,996,000.00	А	
	Threshold CAPEX (as calculated on sheet E2.1)	\$609,572.60	В	
	Eligible Incremental Capital Amount	= \$1,386,427.40	C=A-B	
	Summary of Proposed Incremental Capital Projects			
Number of ICPs 1	Update Sheet			
Project ID #	Incremental Capital Non-Discretionary Project Description	incremental Capital CAPEX	Amortization Expense	CCA
ICP 1	Distribution Substation replacement - MS2 - 398 Foster St, Mount Forest	\$1,360,000.00	\$32,000.00	\$128,000.00
	Total Proposed Incremental Capital CAPEX	\$1,360,000.00	\$32,000.00	\$128,000.00
	Total Incremental Capital Amount for ICM Rate Rider Calculation	\$1,360,000.00		
	Note: The total incremental capital amount for the ICM rate rider calculation careligible incremental capital amount.	nnot exceed the		

The above table is evidence that the incremental revenue requested is not being recovered through the current rate base rates. Furthermore, WNP confirm the following:

- This capital project is a replacement of an existing asset;
- There is no contributed capital to account for or included in this capital project; and
- This project is not being funded, in any way (partly or fully) as a consequence of load growth or expansion of new services.

### **Incremental Capital Adjustment**

WNP is therefore requesting approval of an incremental revenue requirement of \$105,665 per year to be recovered from customers in a Rate Rider until the LDC's next Cost of Service application or until the end of the current IRM cycle as per table below.

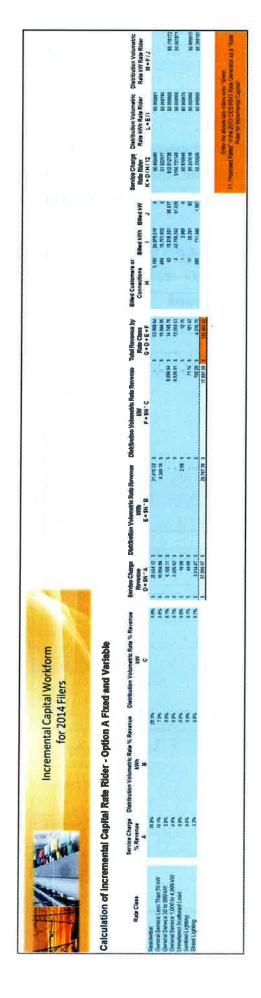
(Note: in completing the 2014 Incremental Capital Project workform (version 1.0), WNP has stated that it is in its 2<sup>nd</sup> year of the IRM cycle – worksheet "Incremental Capital Summary").

Current Revenue Requirement					
Current Revenue Requirement - Total			\$2	2,230,378	^
Return on Rate Base					
Incremental Capital CAPEX	- 12-			,360,000	B
Depreciation Expense Incremental Capital CAPEX to be included in Rate Base			\$ \$1	32,000	D=B-C
Deemed ShortTerm Debt % Deemed Long Term Debt %	4.0% 56.0%	F	<b>\$</b>	53,120 743,680	G = D * E H = D * F
Short Term Interest Long Term Interest	2 08% 4 42%	J	\$ \$	1,105 32,838	K=G*I L=H*J
Return on Rate Base - Interest	4 42%	J	\$	33,943	M=K+L
Return on Rate base - Interest				33,943	M-K-L
Deemed Equity %	40.0%	N	\$	531,200	P-D.N
Return on Rate Base -Equity	9 12%	0	\$	48,445	Q=P'0
Return on Rate Base - Total			\$	82,388	R=M+Q
	/400				•
Amortization Expense					Ì
Amortization Expense - Incremental		С	\$	32,000	s
Grossed up PIL's					1
Regulatory Taxable Income		0	\$	48,445	т
Add Back Amortization Expense		s	\$	32,000	U
Deduct CCA			\$	128,000	V v
incremental Taxable Income			-5	47,555	W=T+U-V
Current Tax Rate (F1 1 Z-Factor Tax Changes)	15.5%	×			
PIL's Before Gross Up			-\$	7.371	Y-W-X
ncremental Grossed Up PIL's			-\$	8,723	Z=Y/(1-X)
Ontario Capital Tax	1				
ncremental Capital CAPEX				360,000	AA
Less Available Capital Exemption (if any)			\$	*	AB
ncremental Capital CAPEX subject to OCT			\$ 1	360,000	AC = AA - AB
Ontario Capital Tax Rate (F1 + Z-Factor Tax Changes)	0.000%	AD			
ncremental Ontario Capital Tax			S	_	AE - AC . AD
ncremental Revenue Requirement					
Return on Rate Base - Total		9	\$	82,388 32,000	AF AG
Amortization Expense - Total ncremental Grossed Up PIL's		Z	-\$	8,723	AG AH
ncremental Ontario Capital Tax		AE	\$		Al
ncremental Revenue Requirement			. 5	105,665	AJ = AF + AG + AH + A

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 92 of 219

### Rate Rider - Option A

WNP has chosen the option A - a fixed and variable rate rider for the recovery period as shown on Sheet "F1.1 "Incr Cap RRider Opt A FV. As per instructions, the calculated ICM Rate Riders have been copied across to the Rate Generator model (worksheet 11 Proposed Rates)



Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 93 of 219

### Exhibit 6: 2014 IRM 4<sup>th</sup> Generation Rate Generator

Upon reviewing Chapter 3 of the Filing Requirements for Electricity Transmission and Distribution Applications guidelines issued July 17, 2013, Wellington North Power Inc. has elected to use the 4<sup>th</sup> Generation Incentive Rate-setting ("4<sup>th</sup> Generation") as its rate-setting method for requesting its' 2014 electricity distribution rates. The decision was made on the basis that the LDC is filing an Incremental Capital Module, which of the three rate-setting methods available, is only supported by the 4<sup>th</sup> Generation IR approach.

Below are details taken from the IRM Generator model (v2.3):

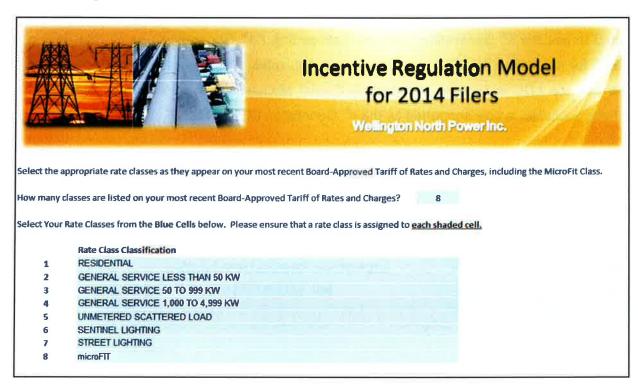
### **Information Sheet**

	Incentive Regulatio for 2014 File	
		Version 2.3
Utility Name	Wellington North Power Inc.	
Service Territory		
Assigned EB Number	EB-2013-0178	
Name of Contact and Title	Richard Bucknall, Regulatory Compliance Analys	
Phone Number	1-519-323-1710	
Email Address	rbucknall@wellingtonnorthpower.com	
We are applying for rates effective	Thursday, May 01, 2014	
Rate-Setting Method	IRM 4	
Please indicate in which Rate Year the Group 1 accounts were last cleared	2012	
Notes		
Pale green cells represent inp	ut cells.	
Pale blue cells represent drop-d	own lists The applicant should select the appropriate item from	m the drop-down list
White cells contain fixed values	automatically generated values or formulae	
Note: 1. Rate year of application		
model to any person that is advising or assisting you in that regard. Exci	ble to you solely for the purpose of filing your IRM application. You may use and prize Indicated above, any copying, reproduction, publication, sele, adaptation, cario Energy Board is prohibited. If you provide a copy of this model to a person standa and agrees to the restrictions noted above.	ranslation, modification, reverse engineering or other use or
	filed with the applications, the onus remains on the applicance ensure the accur	ecy of the data and the results.

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 94 of 219

### **Rate Class Selection**

WNP has eight customer rate classes shown below:



### **Current Tariff Schedule: Residential**

### **RESIDENTIAL Service Classification**

This classification refers to the supply of electrical energy to Customers residing in residential dwelling units. Energy is generally supplied as single phase, 3-wire, 60-Hertz, having a nominal voltage of 120/240 Volts. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component (If applicable, Effective Date MU	ST be in	cluded in rate d
Service Charge	5	18.05
Rate Rider for Disposition of Residual Historical Smart Meter Costs - effective until April 30, 2014	8	0.99
Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2014	S	1.83
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	5	0.79
Distribution Volumetric Rate	S/kWh	0.0181
Low Voltage Service Rate	S/KWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014	S/kWh	(0.0058)
Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014	S/kWh	(0,0027)
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014 Applicable only for Non-RPP Customers	\$/kWh	0.0046
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM)/Shared Savings Mechanism (SSM) - effective until April 30, 2014	\$/kWh	0.0004
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045

### **MONTHLY RATES AND CHARGES - Regulatory Component**

	Wholesale Market Service Rate	\$/kWh	0.0044
	Rural Rate Protection Charge	\$/kWh	0.0012
j	Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

0.2500

### Current Tariff Schedule: General Service <50kW

Standard Supply Service - Administrative Charge (if applicable)

### GENERAL SERVICE LESS THAN 50 KW Service Classification This classification applies to customers in General Service buildings with a connected load less than 50 kW, and Town Houses and Condominiums that require centralized bulk metering. General Service buildings are defined as buildings that are used for purposes other than single-family dwellings. Further servicing details are available in the distributor's Conditions of Service. APPLICATION The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein. Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST MONTHLY RATES AND CHARGES - Delivery Component (II applicable, Effective Date MUST be included in rate de 38 32 Rate Rider for Disposition of Residual Historical Smart Meter Costs - effective until April 30, 2014 5 9.32 s 9.83 Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2014 5 0.79 Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018 S/kWh 0.0164 Distribution Volumetric Rate \$/kWh 0.0015 Low Voltage Service Rate \$/kWh (0,0042) Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014 Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014 S/kWh (0.0051) Rate Rider for Disposition of Global Adjustment Sub-Account (2010) - effective until April 30, 2014 Applicable only for \$/kWh 0,0046 Non-RPP Customers Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM)/Shared Savings Mechanism (SSM) effective until April 30, 2014 \$/kWh 0.0022 \$/kW/h 0.0064 Retail Transmission Rate - Network Service Rate \$/kWh 0.0038 Retail Transmission Rate - Line and Transformation Connection Service Rate MONTHLY RATES AND CHARGES - Regulatory Component \$/kWh 0.0044 Rural Rate Protection Charge \$/kWh 0.0012

\$

0.2500

### Current Tariff Schedule: General Service 50 to 999 kW

### GENERAL SERVICE 50 TO 999 KW Service Classification This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. Further servicing details are available in the distributor's Conditions of Service APPLICATION The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule. No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein. Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST. MONTHLY RATES AND CHARGES - Delivery Component \_\_(If applicable, Effective Date MUST be included in rate de Service Charge 289.39 Distribution Volumetric Rate S/KW 3.5779 Low Voltage Service Rate S/KVV 0.6050 Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014 S/kW (0.0995) S/kW (2.5258) Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014 Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014 Applicable only for S/KW 1.7790 Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM)/Shared Savings Mechanism (SSM) - effective until April 30, 2014 SAW 0.2897 Retail Transmission Rate - Network Service Rate 2.6260 SAKW Retail Transmission Rate - Line and Transformation Connection Service Rate SAW 1.5142 MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate \$/kWh 0.0044 Rural Rate Protection Charge \$/kWh 0.0012

Standard Supply Service - Administrative Charge (if applicable)

### Current Tariff Schedule: General Service 1000 to 4999 kW

### GENERAL SERVICE 1,000 TO 4,999 KW Service Classification

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 1,000 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service

### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

it should be noted that this schedule does not list any charges, assessments or credits that are required by law to be involced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

ervice Charge	S	2,201.78
histribution Volumetric Rate	SAW	1.8475
ow Voltage Service Rate	S/KW	0.6632
tate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014	S/kW	0 2871
ate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014	S/KW	(2.8854)
ate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014 Applicable only for on-RPP Customers	S/kW	2.0018
etali Transmission Rate - Network Service Rate	S/kW	2.7892
etall Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6600

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate \$/kWh 0.0044

Rural Rate Protection Charge \$/kWh 0.0012

Standard Supply Service - Administrative Charge (if applicable) \$ 0.2500

\$/kWh 0.0044

\$/kWh 0.0012

0.2500

### **Current Tariff Schedule: Unmetered Scattered Load**

### UNMETERED SCATTERED LOAD Service Classification

This classification applies to an account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, decorative street lighting, billboards, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service

### APPLICATION

Wholesale Market Service Rate

Standard Supply Service - Administrative Charge (if applicable)

Rural Rate Protection Charge

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be involced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	3	17.66
Distribution Volumetric Rate	\$/kWh	0.0142
.cw Votage Service Rate	\$/kWh	0.0015
Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014	S/kWh	(0.0065)
Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014	\$/kWh	0.0009
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014 Applicable only for Non-RPP Customers	S/kWh	0.0046
Retail Transmission Rate - Network Service Rate	S/KWh	0.0064
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0038

\$/kWh 0.0012

0.2500

\$

### **Current Tariff Schedule:** Sentinel Lighting

Rural Rate Protection Charge

Standard Supply Service - Administrative Charge (if applicable)

### **SENTINEL LIGHTING Service Classification** This classification refers to accounts for unmetered lighting loads supplied to sentinel lights. Further servicing details are available in the distributor's Conditions of Service APPLICATION The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule. No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein. Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST. MONTHLY RATES AND CHARGES - Delivery Component (If applicable, Effective Date MUST be included in rate de Distribution Volumetric Rate \$/kW 18 9208 Low Voltage Service Rate \$/kW 0.4775 Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014 \$/kW (5.3293) Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014 3.7824 Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014 Applicable only for 1.6671 Non-RPP Customers Retail Transmission Rate - Network Service Rate 1.9904 Retail Transmission Rate - Line and Transformation Connection Service Rate 1.1951 MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate \$/kWh 0.0044

### **Current Tariff Schedule: Street Lighting**

### **STREET LIGHTING Service Classification**

This classification refers to accounts for roadway lighting with a Municipality, Regional Municipality, and Ministry of Transportation. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be Invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component	(If applicable, Effective Date MUS	T be in	<u>cluded in rate d</u>
Service Charge		5	6.95
Distribution Volumetric Rate		SAW	7,7414
.ow Voltage Service Rate		\$/kW	0.4677
Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective	until April 30, 2014	SAW	(1.7072)
Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective	until April 30, 2014	\$/kW	(2 1396)
tate Rider for Disposition of Global Adjustment Sub-Account (2012) - effection-RPP Customers	tive until April 30, 2014 Applicable only for	SAW	1.6953
ketall Transmission Rate - Network Service Rate		S/KVV	1.9804
letall Transmission Rate - Line and Transformation Connection Service Rat		\$/kW	1.1707

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service - Administrative Charge (if applicable) \$/kWh 0.0044 \$/kWh 0.0012 \$ 0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 102 of 219

**Current Tariff Schedule:** MicroFIT

### microFIT Service Classification

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component (If applicable, Effective Date MUST be included in rate de Service Charge \$ 5.40

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 103 of 219

## Continuity Schedule: 2012 Transactions

The table below shows the transactions recorded during 2012:

							2000	10000	A COUNTY OF THE PARTY OF THE PA		COLUMN TOWNS THE	The second second
Incentive Regulation Model for 2014 Filers												
Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only.  If you have received approval to dispose of balances from prior years, the starting point for entries in the 2014 but schedule believ will be the balance stored called approval. For example, if in the 2013 EDR process (Co.S. or IRM) you received approval. For example, if in the 2013 EDR process (Co.S. or IRM) you received approval. For example, if in the 2013 EDR process (Co.S. or IRM) you received approval to provide the process of the December principal and column BY for interest. This will allow for the correct starting point for the 2012 opening balance columns for both principal and interest.	10 and 10											
Please refer to the boomcles for further instructions.  UPDATE												
						2012						
Account Descriptions Account Inumber	Opening Principal Amounts as of Jan-1-12	Transaction Dabit ( (Caulit) during 2012 excluding interest and adjustments 2		Other 1 djustoments dering Adju Q1 2012	Other 1 unmeste during Adju Q2 2012	Board-Approved Other 1 Other 1 Other 1 Other 1 Other 1 Deposition during Adjustments duri	ther 1 P	Closeng Ope Principal Int Batence as of Amou Dec.31:12 Jan	Opening Interest Jan.1 Amounts as of to Dec.31-12 Jan.1-12	Board. 8n:1 Approved 1-12 Disposition during 2012	Adjustments ind during 2012 . on other 1	Closing Interest Amounts as of Dec.31:12
Group 1 Accounts												
LV Vanance Account RSVA Vivindessie Market Service Charge RSVA Vivindessie Market Service Charge	7.0	~ E	5.5					(40.216) (251.680)			(5,269)	Set v
9B	423 207)	5,389	(357,615)					12,058	528 (11.592) (5	(5.226) (12	629 (2.245)	1,573
RSVA - Global Adjustment Recovery of Regulatory Asset Balances											32,860	9 2
Disposition and Recovery/Refund of Regulatory Balances (2008)* 1585 Disposition and Recovery/Refund of Regulatory Balances (2008)* 1595 Disposition and Recovery/Refund of Regulatory Balances (2010)* 1595 Disposition and Recovery/Refund of Regulatory Balances (2011)* 1595	90 %		(7.836)					4,772	000000000000000000000000000000000000000	(16)	3.740	168
Group 1 Sub-Total (including Account 1689 - Global Adjustment) Group 1 Sub-Total (excluding Account 1689 - Global Adjustment) RSVA - Global Adjustment	632 5±2 1 023 348 390 804	981,217 885,251 (264,039)	2 540010) 1 (991.630)	000	000	000	000	23.457 23.457 (284.863)	17 390) 7 47 197) 8 28 807	7 540; 17 (\$ 628) 49 (912) 38	17.101 48.951 32.850	5.874
Deferred Payments in Lieu of Taxes	4,406		4.406					0	3,842		3,854	8
Total of Group 1 and Account 1662	900,000	681,212	(535,604)	0	0	0	0	(241 406)	13.548,	7,5407	13,237)	0 7.851
Special Purpose Charge Assessment Variance Account			THE REAL PROPERTY.	S. COVIDED		N = III	THE SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF T	The state of		į		Ī
LRAM Variance Account <sup>6</sup> 1568	9							0	0			
Total including Accounts 1562 and 1568	-28 138	661 212	2 (535,894)	0	0	0	0	(241.406)	(3,548) (7	7,540) (13	(1227)	0 (7.5

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 104 of 219

### 2013 Projections and RRR Reporting Continuity Schedule:

The table below shows the projected Interest amounts based upon 2012 balances for (a) interest during 2013 and (b) interest for the period of January to April of 2014. This table also illustrates the variances between 2012 balances and RRR balances filed with the OEB:

Incentive Regulation										
Model for 2014 Filers										
Please complete the following continuity schedule for the following Deterral / Variance Accourts. Enter information into green cells only.										
If you have recoved approval to dispose to balances from prior years, the starting point for entries in the 2014 DVA schedule below will be the balance abeer date as per your Cit. for which you received approval. For example, if in the 2013 EOR process (CoS or RBI) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the adjustment column BQ for principal and column BV for interest. This will allow for the correct starting point for the 2012 opening balance columns for both principal and interest.	9 2									
Please refer to the footnotes for further instructions.										
UPDATE										
			2013			Projected Inte	Projected Interest on Dec-31-12 Balances	2 Balances	2.1.7 RRR	
Account Descriptions Account	Principal Disposition during 2013 Instructed by Board	Interest Disposition during 2013 instructed by Board	Closing Principal Balances as el Dec 31.17 Adjusted for Dispositions during 2013		Closing Interest Balances as of Dec 31.12 Adjusted for Dispositions Burling 2013	Projected Interest from Jan 1, F 2013 to December 31, 2013 on Dec 31 -12 betance adjusted for disposition during 2013 <sup>3</sup>	Projected Interest from January 1.2013 to April 20, 2013 on Dec 31 12 balance adjused for disposition during 2013	Total Claim	As of Dec 31-12	Variance RRR vs. 2012 Belence (Principal + Interest)
Group 1 Accounts										
			F (2)	(40.216) 251.880)	.230	(591)	(193)	280,762	(40 445)	₩ PA
RSVA - Ketali Harismission ketvorik Charige 1584 RSVA - Retail fransmission Connection Charige 1588 RSVA - Power Leften Girland Adjustroom 4			9 6	12 058 (60 203)	(4.573)	(885)	(295)	12.168	11 832 (62.774)	0
			(26	264 863	(3.955)	(2,893)	(1-298)	27.2 009	(204 95)	63 867
yulakory Balances (2008)* Hulatory Balances (2009)* Julatory Balances (2010)*				4 772	(4,668)	70	, K 0 0	761	501	
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>2</sup> 1595				c	8	0	0	٥		ō.
Group 1 Sub-Total (Including Account 1989 - Global Adjustment) Group 1 Sub-Total (excluding Account 1589 - Global Adjustment) RSVA - Global Adjustment		000	0 0	(241 406) 23 467 (264,863)	(7.829) (3.835)	3,548. 345. 13,893.	11.102° 115 11.298°	253.867 <b>70.04</b> 274.009	157,371) 47,580 204,953	91 (884 27 997 63,867
Deferred Payments in Leu of Taxes 1562				0	22)	0	<u>(6)</u>	[22]	0	22
Total of Group 1 and Account 1862		0	0	(241,406)	7 851	3.5497	17.183)	[253,989]	1157,371)	91,896
Special Purpose Charge Assessment Variance Account*		8					N DIE NEW YORK	1000		
LRAM Variance Account <sup>6</sup>				D	.0			0.		. 0
Total including Accounts 1562 and 1568		0	0	(2/41,496)	(7,051)	(1),6419)	(1,183)	(253 889)	(157,773)	91 880

### Continuity Schedule: Deferral and Variance Account Analysis

The table below summarises the variances between WNP's 2012 Audited Financial Statements and the LDC's filed RRR reporting for the 2012 year-end. This information is recorded in the IRM Generator model, worksheet 5. "2014 Continuity Schedule":

				Finar	nce Balance	at 31-Dec-2012	
Item	Account	Account No.	RRR Filing at 31- Dec-2012	Principal	Interest	Principal + Interest	Variance
			Α	В	C	D = B + C	E = A -D
(a)	LV Variance Account	1550	(\$40,445)	(\$40,216)	(\$230)	(\$40,446)	\$1
(b)	RSVA - Wholesale Market Service Charge	1580	(\$255,827)	(\$251,680)	(\$4,149)	(\$255,829)	\$2
(c)	RSVA - Retail Transmission Network Charge	1584	\$11,932	\$12,058	(\$126)	\$11,932	(\$0)
(d)	RSVA - Retail Transmission Connection Charge	1586	(\$64,774)	(\$60,203)	(\$4,573)	(\$64,776)	\$2
(e)	RSVA - Power (excluding Global Adjustment)	1588	\$396,592	\$358,726	\$9,872	\$368,598	\$27,994
(f)	RSVA - Global Adjustment	1589	(\$204,951)	(\$264,863)	(\$3,955)	(\$268,818)	\$63,867
(p)	Recovery of Regulatory Asset Balances	1590	\$o	\$0	\$0	\$0	\$0
(h)	Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>5</sup>	1595	\$103	\$4,772	(\$4,668)	\$104	(\$1)
(i)	Deferred Payments in Lieu of Taxes	1562	\$0	\$0	(\$22)	(\$22)	\$22
						Total Variance	\$91,886

Upon reviewing the above table, the accounts with a variance between the RRR filings compared to the Rate Generator 2014 Continuity Schedule of between (\$2) to \$2, this is as a result of numerical rounding in the Rate Generator model. An explanation for the accounts were there is a greater variance is explained below:

### Item (e) - Account 1588:

WNP continued to use the 1588-sub account to record the charges for GA-RPP customers but did not include this amount in the 1588-RSVA- Power during the reporting period. Consequently, the RRR filing at December 31, 2012 was overstated by \$27,994.

This discrepancy was identified during WNP's preparation of its 2014 IRM data and the LDC has reflected an adjustment in its' Quarter 2 2013 RRR filing that was submitted on August 23, 2013.

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment

Page 106 of 219

Item (f) - Account 1589:

When Account 1589 was introduced in 2012 to record the charges from the market for Global Adjustment Non-RPP customers, the opening balance in the 1588-sub account was not transferred to Account 1589. Consequently, the RRR filing at December 31,

2012 was understated by \$63,867.

This discrepancy was identified during WNP's preparation of its 2014 IRM data and the LDC has reflected an adjustment in its' Quarter 2 2013 RRR filing that was submitted

on August 23, 2013.

• Item (i) Account 1562:

In WNP's 2012 Board-Approved Cost of Service rate application (EB-2011-0249), the LDC filed SIMPIL models and Continuity Schedules that were approved as part of the Application. The projected Interest for the period of 1<sup>st</sup> Jan 2012 to 30<sup>th</sup> April 2012 of \$22 as approved by the Board has been incorporated into the company financial statements but not recorded in the RRR filings. WNP will include this balance in its next RRR filings for the Quarter 3 of 2013.

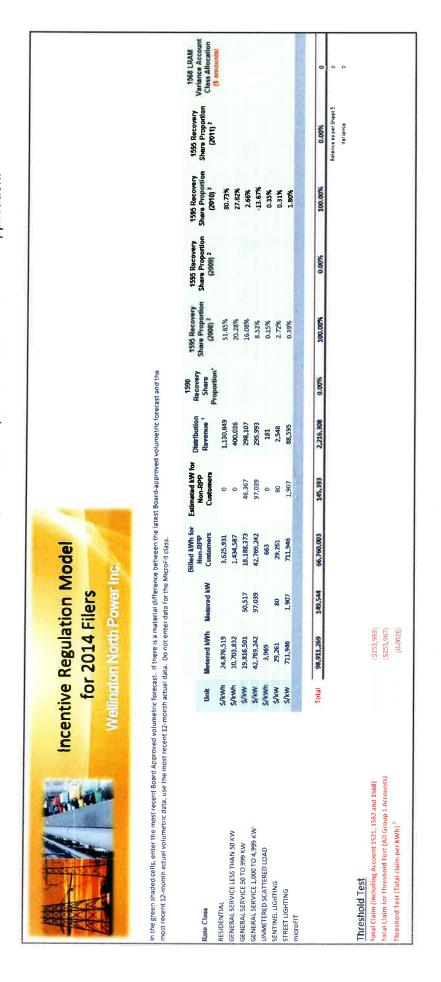
Reference: IRM Rate Generator model:

WellingtonNorth EB-2013-0178 2014 IRM Rate Generator V2.3.xlsm worksheet 5. 2013 Continuity Schedule

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 107 of 219

# Billing Determinant for Deferral- Variance Balances Allocation

The worksheet below illustrates that when inputting the Deferral and Variance Balances from WNP's Group 1 Accounts, the Claim does exceed the Threshold Test and therefore, there are Disposition requirements required for WNP's 2014 IRM application.



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 108 of 219

## Allocation of Deferral and Variance Balances

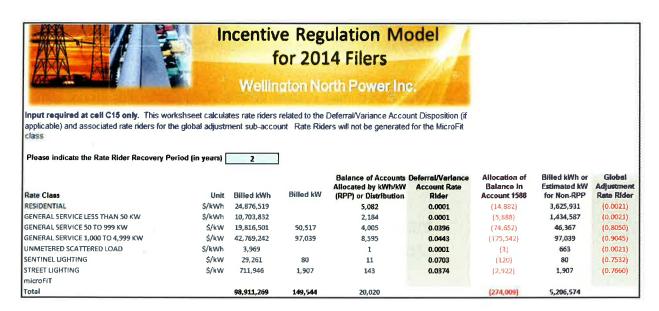
The worksheet below demonstrates that the Deferral or Variance balances from Group 1 Accounts that require disposition.

	T. late	Ince	Incentive Regul for 2014	ve Regulati for 2014 Fi	ation Model	del	4									
			Wellington Nort		n Power Inc.	V	Ţ									
No input required. This workshseer allocates the deferral/variance account balances (Group 1, 1521, 1588) per the EDDVAR Report dated July 31, 2009.	e deferralivariano	se account balany	ces (Group 1, 15.	21, 1588 GA, 15	GA, 1582 and 1588) to the appropriate classes as	the appropriate	classes as									
Allocation of Group 1 Accounts (including Accounts 1521, 1562, 1568)	ncluding Acc	counts 1521	1, 1562, 1566	6												
Rate Class	S. of Total KVP.	% of Total non-	% of Total Distribution Beverate	999	4456	3	200	1000	***	****	1595	1595	1595	1595		
									-	2001	femore	lennal	in control	lund	7000	1366
RESIDENTIAL	25.2%	5.4%	51.0%	(10,371)	(65,582)	3,060	(16,588)	24,472	(14,882)	0	102	0	D	0	(11)	0
GENERAL SERVICE LESS THAN 50 KW	10.8%	2.1%	18.0%	(4,462)	(28,219)	1,317	(861,7)	40,649	(5,888)	0	8	0	0	0	(4)	0
GENERAL SERVICE 50 TO 999 KW	20.0%	27.2%	13.5%	(8,261)	(52,243)	2,438	(13,214)	75,256	(74,652)	0	32	0	0	٥	(2)	0
GENERAL SERVICE 1,000 TO 4,999 KW	43,2%	64.1%	13.4%	(17,830)	(112,753)	5,262	(28,519)	162,422	(175,542)	0	17	0	0	0	(3)	0
UNMETERED SCATTERED LOAD	0.0%	9,00	0.0%	(2)	(07)	0	(3)	33	(E)	0	0	0	0	0	(0)	a
SENTINEL LIGHTING	0.0%	960'0	0.1%	(12)	E	4	(20)	111	(120)	0	10	0	0	0	(0)	0
STREET LIGHTING	0.7%	1.1%	4.0%	(297)	(1,877)	88	(475)	2,704	(2,922)	0	7	0	D	0	(3)	0
тістовт	0	0	0	0	0	0	0	0	0	ø	0	0	D	D	0	0
Total	100.095	100.0%	300.001	(41,234)	(260,762)	12,168	(65,956)	375,629	(274,009)	0	161	۰	٥	۰	(22)	0
* BCUA . Double (Fretigies Ciches & dischare																

### Calculation of Deferral – Variance Balances

The worksheet below illustrates the Deferral/Variance Rate Riders by customer class for Deferral/Variance Account Rate Rider and Global Adjustment Rate Rider for WNP.

Wellington North Power Inc. is requesting a Recovery Period of 2 years as justified in the Manager's Summary.

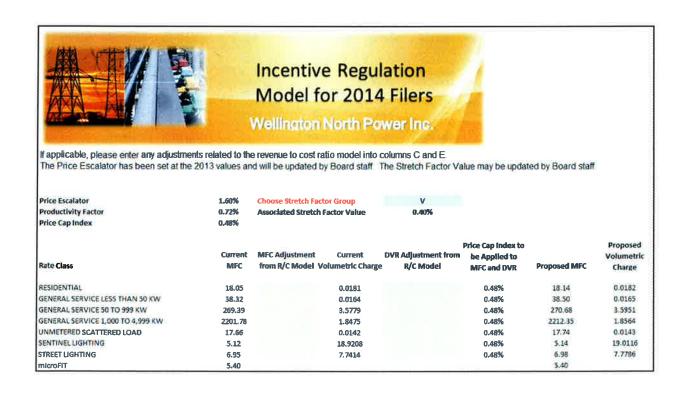


## Revenue to Cost – GDP Implicit Price Index (IPI)

The worksheet below illustrates that because there are <u>no</u> adjustments arising from the Revenue to Cost Ratio model, the Fixed Costs and Distribution Volumetric ratio are shown as zero (0). As detailed in Exhibit 4 – "Revenue-to-Cost-Ratio", WNP is proposing to maintain the ratios that were agreed in the LDC's 2012 Cost of Service application (EB-2011-0249).

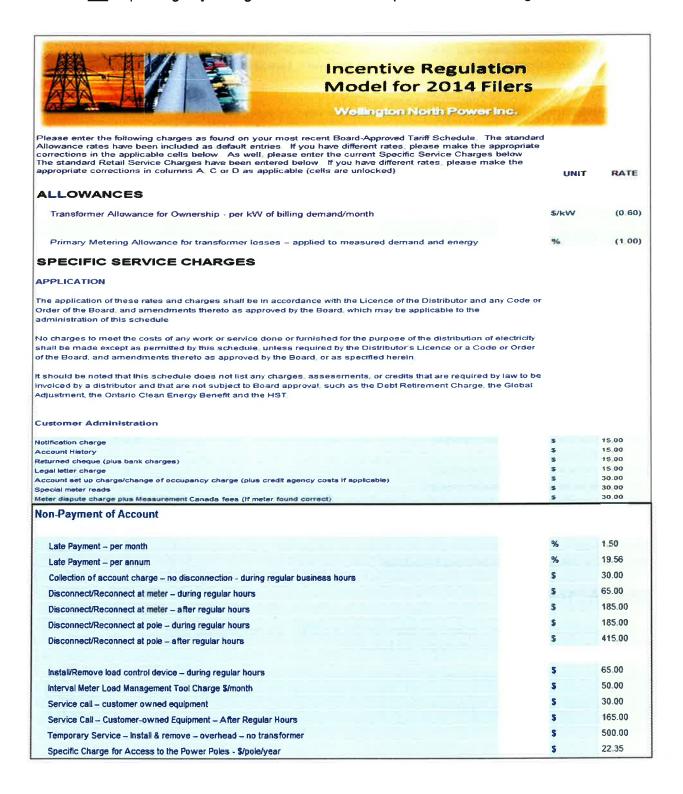
WNP has included the default price cap adjustment of 0.48%. This calculation is based upon a default price escalator of 1.60%, an x-factor of 0.72% and the proxy stretch factor of 0.4%. The Price Cap Adjustment is therefore set by default in the model to 0.48%.

The Applicant acknowledges that the Board may update WNP's Rate Generator Model with the updated price escalator and adjust the stretch factor as part of the application process.



## **Allowances and Specific Service Charges**

WNP is not requesting any changes to Allowances or Specific Service Charges:



### Allowances and Specific Service Charges (continued)

### **RETAIL SERVICE CHARGES (if applicable)**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, charges for the Ministry of Energy Conservation and Renewable Energy Program, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100,00
Monthly Fixed Charge, per retailer	\$	20.00
Monthly Variable Charge, per customer, per retailer	\$/cust	0.50
Distributor-consolidated billing charge, per customer, per retailer	\$/cust.	0.30
Retailer-consolidated billing credit, per customer, per retailer	\$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	S	0.25
Processing fee, per request, applied to the requesting party	S	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

### **LOSS FACTORS**

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Seconda	ry Metered Customer < 5,000 kW
Lordi Cogg i dotoi - Gecolida	if y metered customer < 3,000 kW

1.0716

Total Loss Factor - Primary Metered Customer < 5,000 kW

1.0609

# Proposed Rates: Residential

RESIDENTIAL SERVICE CLASSIFICATION		
MONTHLY RATES AND CHARGES - Delivery Component		
Service Charge	\$	18.14
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.01820
Low Voltage Service Rate	\$/kWh	0.00180
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	\$/kWh	0.00010
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,		
2016 Applicable only for Non-RPP Customers	\$/kWh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00650
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.00414
Rate Rider for Incremental Capital - Service Charge	\$	0.85850
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00086
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.00440
Rural Rate Protection Charge	\$/kWh	0.00120
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Proposed Rates: General Service <50kW

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFIC	CATION	
MONTHLY RATES AND CHARGES - Delivery Component		
Service Charge	\$	38.50
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.01650
Low Voltage Service Rate	\$/kWh	0.00150
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	\$/kWh	0.00010
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,		
2016 Applicable only for Non-RPP Customers	\$/kWh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00603
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.00350
Rate Rider for Incremental Capital - Service Charge	\$	1.82258
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00078
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate	\$/kWh	0.00440
Rural Rate Protection Charge	\$/kWh	0.00120
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Proposed Rates: General Service 50 - 999kW

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION	ON	
MONTHLY RATES AND CHARGES - Delivery Component		
Service Charge	\$	270.6
Distribution Volumetric Rate	\$/kW	3.5951
Low Voltage Service Rate	\$/kW	0.6050
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	\$/kW	0.0396
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,		
2016 Applicable only for Non-RPP Customers	\$/kW	(0.80500
Retail Transmission Rate - Network Service Rate	\$/kW	2.4756
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.3946
Rate Rider for Incremental Capital - Service Charge	\$	12.8127
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.1701
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2

# Proposed Rates: General Service 1000 - 4999kW

GENERAL SERVICE 1,000 TO 4,999 KW SERVICE CLASSIFICATION OF THE SE	CATION	
MONTHLY RATES AND CHARGES - Delivery Component Service Charge	\$	2,212.3
Distribution Volumetric Rate	\$/kW	1.85640
Low Voltage Service Rate	S/kW	0.66320
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	S/kW	0.04430
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,	2/ 1/44	0.04436
2016 Applicable only for Non-RPP Customers	\$/kW	(0.90450
Retail Transmission Rate - Network Service Rate	\$/kW	2.62946
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.52894
Rate Rider for Incremental Capital - Service Charge	S	104.7211
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.08787
MONTHLY RATES AND CHARGES - Regulatory Component		
Vholesale Market Service Rate	\$/kWh	0.00440
Rural Rate Protection Charge	\$/kWh	0.00120
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

# Proposed Rates: Unmetered Scattered Load

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	NJ	
	¥	
MONTHLY RATES AND CHARGES - Delivery Component		47.74
Service Charge	\$	17.74
Distribution Volumetric Rate	\$/kWh	0.01430
Low Voltage Service Rate	\$/kWh	0.00150
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	\$/kWh	0.00010
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,	4.45	
2016 Applicable only for Non-RPP Customers	\$/kWh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00603
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.00350
Rate Rider for Incremental Capital - Service Charge	\$	0.83995
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00068
MONTHLY RATES AND CHARGES - Regulatory Component Wholesale Market Service Rate	\$/kWh	0.00440
Rural Rate Protection Charge	\$/kWh	0.00120
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 118 of 219

# Proposed Rates: Sentinel Lighting

SENTINEL LIGHTING SERVICE CLASSIFICATION		
MONTHLY RATES AND CHARGES - Delivery Component		F 14
Service Charge	\$	5.14
Distribution Volumetric Rate	\$/kW	19.01160
Low Voltage Service Rate	\$/kW	0.47750
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	\$/kW	0.07030
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,		
2016 Applicable only for Non-RPP Customers	\$/kW	(0.75320)
Retail Transmission Rate - Network Service Rate	\$/kW	1.87641
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.10074
Rate Rider for Incremental Capital - Service Charge	\$	0.24352
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.89991
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.00440
Rural Rate Protection Charge	\$/kWh	0.00120
Standard Supply Service - Administrative Charge (if applicable)	\$	0.00120

# Proposed Rates: Street Lighting

MONTHLY RATES AND CHARGES - Delivery Component		
Service Charge	\$	6.98
Distribution Volumetric Rate	\$/kW	7.77860
Low Voltage Service Rate	\$/kW	0.46770
Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016	\$/kW	0.03740
Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28,		
2016 Applicable only for Non-RPP Customers	\$/kW	(0.76600
Retail Transmission Rate - Network Service Rate	\$/kW	1.8669
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.0782
Rate Rider for Incremental Capital - Service Charge	\$	0.3305
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.3682
MONTHLY RATES AND CHARGES - Regulatory Component		
Vholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2

Proposed Rates: MicroFIT

MICROFIT SERVICE CLASSIFICATION	
MONTHLY RATES AND CHARGES - Delivery Component	
Service Charge	\$ 5.40

## **Current vs Proposed Rates:** Residential

Current Rates			Proposed Rates		
Rate Description	Unit	Amount	Rate Description	Unit	Amount
RESIDENTIAL.			RESIDENTIAL	3 57 1	
Service Charge	\$	18.05	Service Charge	5	18 14
Rate Rider for Disposition of Residual Historical Smart Meter			Rate Rider for Smart Metering Entity Charge - effective until		
Costs - effective until April 30, 2014	5	0.99	October 31 2018	5	0.79
Rate Rider for Recovery of Stranded Meter Assets - effective					
until April 30, 2014	5	1.83	Distribution Volumetric Rate	S/kV/h	0.01820
Rate Rider for Smart Metering Entity Charge - effective until					
October 31, 2018	5	0.79	Low Voltage Service Rate	SAKYVIII	0 00180
			Rate Rider for Deferral/Variance Account Disposition (2014) -		
Distribution Volumetric Rate	SkWh	0 01810	effective until April 28, 2016	\$/kV/h	0.00010
			Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28, 2016 Applicable only for Non-RPP		
Low Voltage Service Rate	S/kWh	0,00180	Customers	\$/kWh	(0.00210)
Rate Rider for Disposition of Deferral/Variance Accounts (2010)					
effective until April 30, 2014	5/k//h	(0.00580)	Retail Transmission Rate - Network Service Rate	\$/kWh	0.00650
Rate Rider for Disposition of Deferral/Variance Accounts (2012)			Retail Transmission Rate - Line and Transformation Connection		
effective until April 30, 2014	\$/k\/h	(0.00270)	Service Rate	\$/kWh	0.00414
Rate Rider for Disposition of Global Adjustment Sub-Account					
(2012) - effective until April 30, 2014 Applicable only for Non-					
RPP Customers	\$/kWh	0.00460	Rate Rider for Incremental Capital - Service Charge	S	0.86
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism					
(LRAM)/Shared Savings Mechanism (SSM) - effective until April					
30, 2014	\$/kWh	0.00040	Rate Rider for Incremental Capital - Distribution Volumetric	\$/k\/h	0 00086
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00690	Wholesale Market Service Rate	\$/k\Vh	0.00440
Retail Transmission Rate - Line and Transformation Connection					
Service Rate	\$/kWh	0.00450	Rural Rate Protection Charge	S/kW/h	0.00120
Wholesale Market Service Rate	S/kV/h	0.00440	Standard Supply Service - Administrative Charge (if applicable)	s	0 25
Rural Rate Protection Charge	S/ky/h	0.00120			
Standard Supply Service - Administrative Charge (if applicable)	S	0.25			

# Current vs Proposed Rates: General Service <50kW

Current Rates			Proposed Rates		
Rate Description	Unit	Amount	Rate Description		Amount
GENERAL SERVICE LESS THAN 50 KW			GENERAL SERVICE LESS THAN 50 KW		
Service Charge	S	38.32	Service Charge	\$	38 50
Rate Rider for Disposition of Residual Historical Smart Meter Costs - effective until April 30, 2014 Rate Rider for Recovery of Stranded Meter	\$	9.32	Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Assets - effective until April 30, 2014	\$	9.83	Distribution Volumetric Rate	\$/kWh	0.01650
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	5	0.79	Low Voltage Service Rate Rate Rider for Deferral/Variance Account	\$/kWh	0.00150
Distribution Volumetric Rate	\$/kWh	0.01640	Disposition (2014) - effective until April 28, 2016 Rate Rider for Global Adjustment Sub-Account Disposition (2014) - effective until April 28, 2016	\$/kWh	0.00010
Low Voltage Service Rate	\$/kWh	0.00150	Applicable only for Non-RPP Customers	\$/kWh	(0.00210
Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014	\$/kWh	(0 00420)	Retail Transmission Rate - Network Service Rate	\$/kWh	0.00603
Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014 Rate Rider for Disposition of Global Adjustment Sub-Account (2010) - effective until April 30.	\$/kWh	(0.00510)	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.00350
2014 Applicable only for Non-RPP Customers	\$/kV/h	0.00460	Rate Rider for incremental Capital - Service Charge	\$	1,82
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM)/Shared Savings Mechanism (SSM) - effective until April 30, 2014	\$/kWh	0 00220	Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00078
Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and	\$/kWh	0.00640	Wholesale Market Service Rate	\$/kWh	0.00440
Transformation Connection Service Rate	\$/kWh	0.00380	Rural Rate Protection Charge Standard Supply Service - Administrative Charge	\$/kWh	0.00120
Wholesale Market Service Rate	\$/kWh	0.00440	(if applicable)	\$	0.25
Rural Rate Protection Charge Standard Supply Service - Administrative	\$/kWh	0.00120			
Charge (if applicable)	\$	0.25			

## Current vs Proposed Rates: General Service 50- 999kW

Current Rates			Proposed Rates			
Rate Description	Unit	Amount	Rate Description	Unit	Amount	
GENERAL SERVICE 50 TO 999 KW	11/1	- 11111	GENERAL SERVICE 50 TO 999 KW			
Service Charge	5	269.39	Service Charge	\$	270.68	
Distribution Volumetric Rate	SAKW	3.57790	Distribution Volumetric Rate	S/kW	3.59510	
Low Voltage Service Rate	S/KW	0.60500	Low Voltage Service Rate	S/kW	0.60500	
Rate Rider for Disposition of Deferral/Variance Accounts (2010) - effective until April 30, 2014	\$/kW	(0.09950)	Rate Rider for Deferral/Variance Account Disposition (2014) - effective until April 28, 2016 Rate Rider for Global Adjustment Sub-Account	\$/kW	0.03960	
Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014 Rate Rider for Disposition of Global Adjustment	S/kW/	(2 52580)	Disposition (2014) - effective until April 28, 2016 Applicable only for Non-RPP Customers	S/kW	(0.80500)	
Sub-Account (2012) - effective until April 30, 2014 Applicable only for Non-RPP Customers	S/kW	1.77900	Retail Transmission Rate - Network Service Rate	S/kW	2.47561	
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM)/Shared Savings Mechanism (SSM) - effective until April 30, 2014	S/kW	0.28970	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.39465	
Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and	CALLED .	2.62600	Rate Rider for Incremental Capital - Service Charge Rate Rider for Incremental Capital - Distribution		12.81	
Transformation Connection Service Rate	S/kW	1.51420	Volumetric	\$/KW	0.17017	
Wholesale Market Service Rate	S/kWh	0.00440	Wholesale Market Service Rate	S/kWh	0.00440	
Rural Rate Protection Charge Standard Supply Service - Administrative	\$/kWh	0.00120	Rural Rate Protection Charge Standard Supply Service - Administrative Charge	\$/kWh	0.00120	
Charge (if applicable)	\$	0.25	(if applicable)	\$	0.25	

# Current vs Proposed Rates: General Service 1000- 4999kW

Current Rates			Proposed Rates			
Rate Description	Unit	Amount	Rate Description	Unit	Amount	
GENERAL SERVICE 1,000 TO 4,999 KW			GENERAL SERVICE 1,000 TO 4,999 KW			
Service Charge	\$	2,201.78	Service Charge	S	2,212.35	
Distribution Volumetric Rate	SIKW	1.84750	Distribution Volumetric Rate	S/kW	1.85640	
Low Voltage Service Rate Rate Rider for Disposition of Deferral/Variance	\$/kW	0.66320	Low Voltage Service Rate Rate Rider for Deferral/Variance Account	S/kW	0.66320	
Accounts (2010) - effective until April 30, 2014	S/kW	0.28710	Disposition (2014) - effective until April 28, 2016 Rate Rider for Global Adjustment Sub-Account	\$/kW	0.04430	
Rate Rider for Disposition of Deferral/Variance Accounts (2012) - effective until April 30, 2014	\$/kW	(2.88540)	Disposition (2014) - effective until April 28, 2016 Applicable only for Non-RPP Customers	S/kW	(0.90450)	
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014 Applicable only for Non-RPP Customers	S/kVV	2.00180	Retail Transmission Rate - Network Service Rate	S/kW	2.62946	
Retail Transmission Rate - Network Service Rate	\$/kW	2.78920	Retail Transmission Rate - Line and Transformation Connection Service Rate	s/kW	1.52894	
Transformation Connection Service Rate	S/kVV	1.66000	Rate Rider for Incremental Capital - Service Charge Rate Rider for Incremental Capital - Distribution	\$	104.72	
Wholesale Market Service Rate	\$/kWh	0.00440	Volumetric	\$/kW	0.08787	
Rural Rate Protection Charge Standard Supply Service - Administrative	\$/kWh	0.00120	Wholesale Market Service Rate	\$/kWh	0.00440	
Charge (if applicable)	\$	0.25	Rural Rate Protection Charge Standard Supply Service - Administrative Charge	\$/kWh	0.00120	
			(if applicable)	\$	0.25	

## Current vs Proposed Rates: Unmetered Scattered Load

Current Rates			Proposed Rates			
Rate Description	Unit	Amount	Rate Description	Unit	Amount	
UNMETERED SCATTERED LOAD			UNMETERED SCATTERED LOAD			
Service Charge	\$	17.66	Service Charge	5	17.74	
Distribution Volumetric Rate	\$/kWh	0.01420	Distribution Volumetric Rate	S/kW/h	0.01430	
Low Voltage Service Rate	S/kWh	0.00150	Low Voltage Service Rate	S/kWh	0.00150	
Rate Rider for Disposition of Deferral/Variance			Rate Rider for Deferral/Variance Account			
Accounts (2010) - effective until April 30, 2014	\$/kWh	(0.00650)	Disposition (2014) - effective until April 28, 2016	\$/kyvh	0.00010	
			Rate Rider for Global Adjustment Sub-Account			
Rate Rider for Disposition of Deferral/Variance			Disposition (2014) - effective until April 28, 2016			
Accounts (2012) - effective until April 30, 2014	S/kV/h	0.00090	Applicable only for Non-RPP Customers	SVKVVh	(0.00210)	
Rate Rider for Disposition of Global Adjustment						
Sub-Account (2012) - effective until April 30,						
2014 Applicable only for Non-RPP Customers	\$/kWh	0.00460	Retail Transmission Rate - Network Service Rate	S/kWh	0.00603	
			Retail Transmission Rate - Line and Transformation			
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00640	Connection Service Rate	\$/kWh	0.00350	
Retail Transmission Rate - Line and						
Transformation Connection Service Rate	S/kWh	0.00380	Rate Rider for Incremental Capital - Service Charge	S	0.84	
			Rate Rider for Incremental Capital - Distribution			
Wholesale Market Service Rate	\$/kWh	0.00440	Volumetric	S/kWh	0.00068	
Rural Rate Protection Charge	S/kV/h	0.00120	Wholesale Market Service Rate	S/kWh	0.00440	
Standard Supply Service - Administrative						
Charge (if applicable)	\$	0.25	Rural Rate Protection Charge	\$/kWh	0.00120	
			Standard Supply Service - Administrative Charge			
			(if applicable)	S	0.25	

# **Current vs Proposed Rates:** Sentinel Lighting

Current Rates			Proposed Rates				
Rate Description	Unit	Amount	Rate Description	Unit	Amount		
SENTINEL LIGHTING			SENTINEL LIGHTING				
Service Charge	5	5.12	Service Charge	S	5.14		
Distribution Volumetric Rate	S/kW	18.92080	Distribution Volumetric Rate	\$/kW	19.01160		
Low Voltage Service Rate	S/KW	0.47750	Low Voltage Service Rate	\$/kW	0.47750		
Rate Rider for Disposition of Deferral/Variance			Rate Rider for Deferral/Variance Account				
Accounts (2010) - effective until April 30, 2014	5/kW	(5 32930)	Disposition (2014) - effective until April 28, 2016	S/KVV	0.07030		
			Rate Rider for Global Adjustment Sub-Account				
Rate Rider for Disposition of Deferral/Variance			Disposition (2014) - effective until April 28, 2016				
Accounts (2012) - effective until April 30, 2014	\$/kW	3.78240	Applicable only for Non-RPP Customers	S/kW	(0.75320)		
Rate Rider for Disposition of Global Adjustment							
Sub-Account (2012) - effective until April 30,							
2014 Applicable only for Non-RPP Customers	S/kW	1.66710	Retail Transmission Rate - Network Service Rate	\$/kW	1.87641		
			Retail Transmission Rate - Line and Transformation				
Retail Transmission Rate - Network Service Rate	\$/kVV	1.99040	Connection Service Rate	S/kW	1.10074		
Retail Transmission Rate - Line and							
Transformation Connection Service Rate	\$/kW	1.19510	Rate Rider for Incremental Capital - Service Charge	S	0.24		
			Rate Rider for Incremental Capital - Distribution	-			
Wholesale Market Service Rate	\$/kWh	0.00440	Volumetric	S/kW	0.89991		
Rural Rate Protection Charge	S/kWh	0.00120	Wholesale Market Service Rate	\$/kWh	0.00440		
Standard Supply Service - Administrative					3		
Charge (if applicable)	\$	0.25	Rural Rate Protection Charge	\$/kyVh	0.00120		
			Standard Supply Service - Administrative Charge				
			(if applicable)	\$	0.25		

# **Current vs Proposed Rates:** Street Lighting

Current Rates			Proposed Rates			
Rate Description	Unit	Amount	Rate Description	Unit	Amount	
STREET LIGHTING			STREET LIGHTING			
Service Charge	\$	6.95	Service Charge	\$	6.98	
Distribution Volumetric Rate	S/kW	7.74140	Distribution Volumetric Rate	S/kW	7.77860	
Low Voltage Service Rate	S/kW	0.46770	Low Voltage Service Rate	\$/kW	0.46770	
Rate Rider for Disposition of Deferral/Variance			Rate Rider for Deferral/Variance Account			
Accounts (2010) - effective until April 30, 2014	\$/kW	(1.70720)	Disposition (2014) - effective until April 28, 2016	S/kW	0.03740	
			Rate Rider for Global Adjustment Sub-Account			
Rate Rider for Disposition of Deferral/Variance			Disposition (2014) - effective until April 28, 2016			
Accounts (2012) - effective until April 30, 2014	S/kVV	(2 13960)	Applicable only for Non-RPP Customers	S/kW	(0.76600)	
Rate Rider for Disposition of Global Adjustment						
Sub-Account (2012) - effective until April 30,					15012 4 14 14 14 1	
2014 Applicable only for Non-RPP Customers	S/kW	1.69530	Retail Transmission Rate - Network Service Rate	\$/kW	1.86698	
			Retail Transmission Rate - Line and Transformation			
Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and	S/kW	1.98040	Connection Service Rate	\$/kW	1.07827	
Transformation Connection Service Rate	S/kW	1.17070	Rate Rider for Incremental Capital - Service Charge	s	0.33	
			Rate Rider for Incremental Capital - Distribution			
Wholesale Market Service Rate	S/kWh	0.00440	Volumetric	S/kW	0.36820	
Rural Rate Protection Charge	S/kVVh	0.00120	Wholesale Market Service Rate	S/kWh	0.00440	
Standard Supply Service - Administrative						
Charge (if applicable)	5	0.25	Rural Rate Protection Charge	\$/kWh	0.00120	
			Standard Supply Service - Administrative Charge			
			(if applicable)	\$	0.25	

Current vs Proposed Rates: MicroFIT

Current Rates		Proposed Rates				
Rate Description	Unit	Amount	Rate Description	Unit Amou		
microFIT			microFIT			
Service Charge	\$	5.40	Service Charge	\$ 5.		

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 124 of 219

Proposed Tariff of Rates and Charges: Residential

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to the supply of electrical energy to Customers residing in residential dwelling units. Energy is generally supplied as single phase, 3-wire, 60-Hertz, having a nominal voltage of 120/240 Volts. Further servicing details are available in the distributor's Conditions of Service.

#### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

1		1
Service Charge	\$	18.14
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.01820
Low Voltage Service Rate	\$/kWh	0.00180
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kWh	0.00010
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kV/h	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00650
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVVh	0.00414
Rate Rider for Incremental Capital - Service Charge	\$	0.86
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00086
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0 0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0 2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 125 of 219

## Proposed Tariff of Rates and Charges: General Service <50 kW

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to customers in General Service buildings with a connected load less than 50 kW, and Town Houses and Condominiums that require centralized bulk metering. General Service buildings are defined as buildings that are used for purposes other than single-family dwellings. Further servicing details are available in the distributor's Conditions of Service.

#### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST

		1
Service Charge	\$	38.50
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kVVh	0.01650
Low Voltage Service Rate	\$/kWh	0.00150
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	S/kWh	0.00010
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kWh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kVVh	0.00603
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.00350
Rate Rider for Incremental Capital - Service Charge	\$	1.82
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00078
MONTHLY RATES AND CHARGES - Regulatory Component		1
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kVVh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Proposed Tariff of Rates and Charges:

General Service 50 - 999 kW

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. Further servicing details are available in the distributor's Conditions of Service

#### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	270 68
Distribution Volumetric Rate	\$/kW	3,59510
Low Voltage Service Rate	\$/kW	0.60500
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	S/kW	0.03960
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kVV	(0.80500)
Retail Transmission Rate - Network Service Rate	\$/kVV	2,47561
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVV	1.39465
Rate Rider for Incremental Capital - Service Charge	\$	12.81
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.17017
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment

Page 127 of 219

### **Proposed Tariff of Rates and Charges:**

General Service 1000 - 4999 kW

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### GENERAL SERVICE 1.000 TO 4.999 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 1,000 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service

#### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable,

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	2,212.35
Distribution Volumetric Rate	\$/kW	1,85640
Low Voltage Service Rate	\$/kW	0,66320
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	S/kW	0.04430
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kW	(0.90450)
Retail Transmission Rate - Network Service Rate	\$/kW	2.62946
Retail Transmission Rate - Line and Transformation Connection Service Rate	S/kW	1.52894
Rate Rider for Incremental Capital - Service Charge	\$	104.72
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.08787
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kVVh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 128 of 219

S/kWh

0.0012

0.2500

**Proposed Tariff of Rates and Charges:** 

**Unmetered Scattered Load** 

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### **UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**

This classification applies to an account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, decorative street lighting, billboards, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service

#### APPLICATION

Rural Rate Protection Charge

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

### MONTHLY RATES AND CHARGES - Delivery Component

Standard Supply Service - Administrative Charge (if applicable)

Service Charge	S	17.74
Distribution Volumetric Rate	S/kVVh	0.01430
Low Voltage Service Rate	S/kWh	0.00150
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	S/kVVh	0.00010
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	S/kWh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00603
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVVh	0.00350
Rate Rider for Incremental Capital - Service Charge	\$	0.84
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kVVh	0.00068
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 129 of 219

Proposed Tariff of Rates and Charges: Sentinel Lighting

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts for unmetered lighting loads supplied to sentinel lights. Further servicing details are available in the distributor's Conditions of Service

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	5.14
Distribution Volumetric Rate	\$/kW	19.01160
Low Voltage Service Rate	\$/kW	0.47750
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kW	0.07030
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kW	(0,75320)
Retail Transmission Rate - Network Service Rate	S/kVV	1.87641
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.10074
Rate Rider for Incremental Capital - Service Charge	\$	0.24
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kVV	0.89991
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 130 of 219

Proposed Tariff of Rates and Charges: Street Lighting

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts for roadway lighting with a Municipality, Regional Municipality, and Ministry of Transportation. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	3	6.98
Distribution Volumetric Rate	\$/kW	7,77860
Low Voltage Service Rate	\$/kW	0.46770
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kW	0.03740
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kVV	(0.76600)
Retail Transmission Rate - Network Service Rate	\$/kW	1.86698
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVV	1.07827
Rate Rider for Incremental Capital - Service Charge	\$	0.33
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.36820
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kVVh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 131 of 219

Proposed Tariff of Rates and Charges: MicroFIT

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### MICROFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

#### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST...

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge

S

5.40

MONTHLY RATES AND CHARGES - Regulatory Component

MONTHLY RATES AND CHARGES - Regulatory Component

## Proposed Tariff of Rates and Charges: Allowances

### Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	S/kW	(0.60)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1,00)

### SPECIFIC SERVICE CHARGES

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or of the Board, and amendments thereto as approved by the Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Adjustment, the Ontario Clean Energy Benefit and the HST.

### **Customer Administration**

notification charge	3	15.00
Account History	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if a	applicable) \$	30.00
Special meter reads	S	30_00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment – per month	%	1,50
Late Payment – per annum	%	19.56
Collection of account charge - no disconnection - during regular business hours	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00
Install/Remove load control device – during regular hours	3	65.00
Interval Meter Load Management Tool Charge \$/month	\$	50.00
Service call – customer owned equipment	\$	30.00
Service Call – Customer-owned Equipment – After Regular Hours	\$	165.00
Temporary Service – Install & remove – overhead – no transformer	\$	500.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 133 of 219

## Proposed Tariff of Rates and Charges: Retail Service Charges

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

### RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Adjustment, the Ontario Clean Energy Benefit and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity

One-time charge, per retailer, to establish the service agreement between the distributor and	\$	100.00
Monthly Fixed Charge, per retailer	\$	20.00
Monthly Variable Charge, per customer, per retailer	\$/cust	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.25
Processing fee, per request, applied to the requesting party	\$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

### LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss

Total Loss Factor - Secondary Metered Customer < 5,000 kW

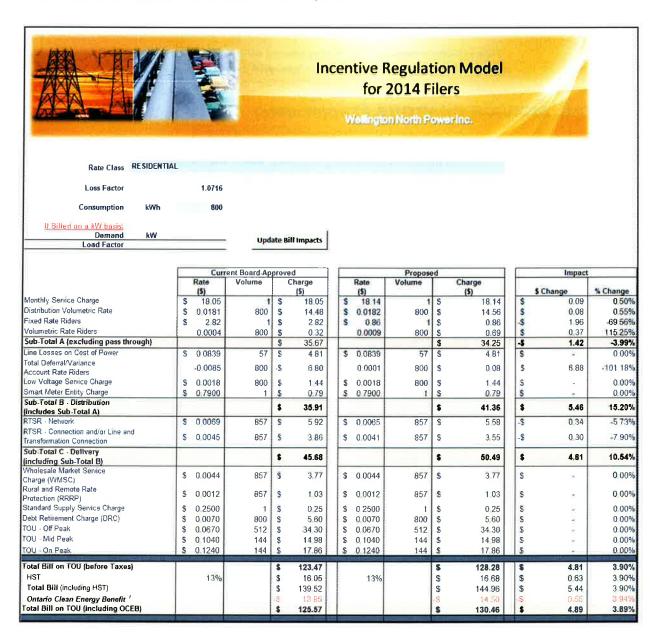
1.0716

Distribution Loss Factor - Primary Metered Customer < 5,000 kW

1.0609

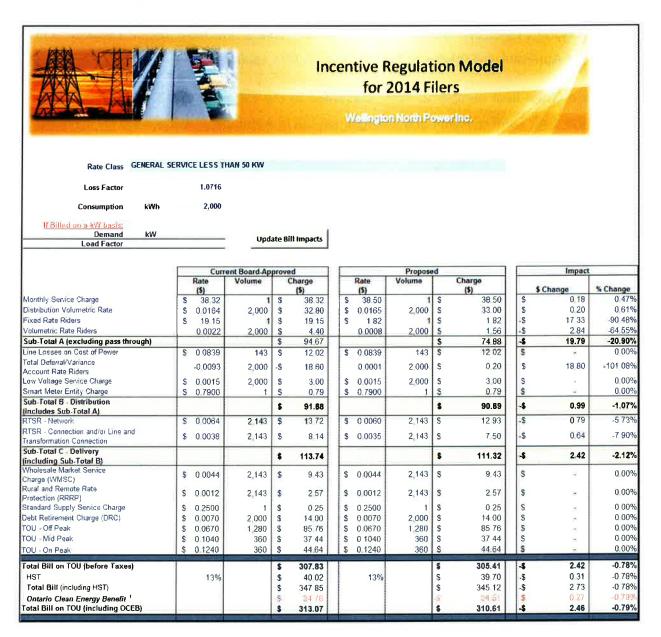
## Bill Impact: Residential Customer - 800 kWh:

The Rates and Charges in the table below are based upon the output from the IRM Rate Generator model (v2.3) worksheet 14 "Bill Impacts".



### Bill Impact: General Service < 50 kW Customer – 2,000 kWh:

The Rates and Charges in the table below are based upon the output from the IRM Rate Generator model (v2.3) worksheet 14 "Bill Impacts".



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 136 of 219

# Appendix 1: Decision and Order for May 1, 2013 Tariff of Rates and Charges

Below is a copy of the Decision and Order (EB-2012-0174) that was issued by the Board on April 4, 2013, with Appendix A containing the approved Tariff of Rates and Charges for Wellington North Power Inc. effective May 1, 2013. This is the most recent Decision and Order for the Applicant and relates to the LDC's 2013 IRM application.

<u>Note</u>: Board Order item number 2, WNP confirmed to the OEB on April 8, 2013 that having reviewed the draft Tariff of Rates and Charges set-out in Appendix A, there were <u>no concerns</u> and determined the information to be <u>accurate and complete</u>. These Rates and Charges became effective on May 1, 2013.

Commission de l'énergie de l'Ontario



EB-2012-0174

IN THE MATTER OF the Ontario Energy Board Act, 1998, S.O. 1998, c.15 (Schedule B);

AND IN THE MATTER OF an application by Wellington North Power Inc. for an order or orders approving or fixing just and reasonable distribution rates and other charges, to be effective May 1, 2013.

By Delegation, Before: Adrian Pye

DECISION AND ORDER April 4, 2013

### Introduction

Wellington North Power Inc. ("WNPI"), a licensed distributor of electricity, filed an application with the Ontario Energy Board (the "Board") on November 19, 2012 under section 78 of the *Ontario Energy Board Act*, 1998, S.O. 1998, c. 15, (Schedule B), seeking approval for changes to the rates that WNPI charges for electricity distribution, to be effective May 1, 2013.

WNPI is one of 77 electricity distributors in Ontario regulated by the Board. The *Report* of the Board on 3<sup>rd</sup> Generation Incentive Regulation for Ontario's Electricity Distributors (the "IR Report"), issued on July 14, 2008, established a three year plan for 3<sup>rd</sup> generation incentive regulation mechanism ("IRM") (i.e., rebasing plus three years). In its October 27, 2010 letter regarding the development of a Renewed Regulatory Framework for Electricity ("RRFE"), the Board announced that it was extending the IRM plan until such time as the RRFE policy initiatives have been substantially completed. In a letter dated October 18, 2012, the Board stated its expectation that the three rate

EB-2012-0174 Wellington North Power Inc.

setting methods set out in the Report of the Board – Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach would be available for the 2014 rate year.

As part of the plan, WNPI is one of the electricity distributors that will have its rates adjusted for 2013 on the basis of the IRM process, which provides for a mechanistic and formulaic adjustment to distribution rates and charges between cost of service applications.

To streamline the process for the approval of distribution rates and charges for distributors, the Board issued its IR Report, Supplemental Report of the Board on 3'd Generation Incentive Regulation for Ontario's Electricity Distributors on September 17, 2008 (the "Supplemental Report"), and Addendum to the Supplemental Report of the Board on 3'd Generation Incentive Regulation for Ontario's Electricity Distributors on January 28, 2009 (collectively the "Reports"). Among other things, the Reports provide the relevant guidelines for 2013 rate adjustments for distributors applying for distribution rate adjustments pursuant to the IRM process. On June 28, 2012, the Board issued an update to Chapter 3 of the Board's Filing Requirements for Transmission and Distribution Applications (the "Filing Requirements"), which outlines the application filing requirements for IRM applications based on the policies in the Reports.

Notice of WNPI's rate application was given through newspaper publication in WNPI's service area advising interested parties where the rate application could be viewed and advising how they could intervene in the proceeding or comment on the application. The Notice of Application indicated that the Board did not intend to award costs in this proceeding as the applicant has only made proposals of a mechanistic nature within the Board's guidelines. No parties requested intervenor status in this proceeding. No letters of comment were received. Board staff participated in the proceeding. The Board proceeded by way of a written hearing.

While I have considered the entire record in this proceeding, I make reference only to such evidence as is necessary to provide context to my findings. The following issues are addressed in this Decision and Order:

- Price Cap Index Adjustment;
- Rural or Remote Electricity Rate Protection Charge;
- Wholesale Market Service Rate;

EB-2012-0174
Wellington North Power Inc.

- · Smart Metering Entity Charge;
- MicroFIT Service Charge;
- Shared Tax Savings Adjustments;
- · Retail Transmission Service Rates; and
- Review and Disposition of Group 1 Deferral and Variance Account Balances.

### **Price Cap Index Adjustment**

As outlined in the Reports, distribution rates under the IRM are to be adjusted by a price escalator, less a productivity factor of 0.72% and a stretch factor.

On March 21, 2013, the Board announced a price escalator of 1.6% for those distributors under IRM that have a rate year commencing May 1, 2013.

The stretch factors are assigned to distributors based on the results of two benchmarking evaluations to divide the Ontario industry into three efficiency cohorts. In its letter to Licensed Electricity Distributors dated November 28, 2012 the Board assigned WNPI to efficiency cohort 3, being the least efficient group, and a resulting cohort specific stretch factor of 0.6%.

I have therefore determined, on that basis, that the resulting price cap index adjustment is 0.28 % (i.e. 1.60% - (0.72% + 0.60%)). The price cap index adjustment applies to distribution rates (fixed and variable charges) uniformly across customer classes.

The price cap index adjustment does not apply to the following components of delivery rates:

- Rate Riders:
- · Rate Adders;
- · Low Voltage Service Charges;
- Retail Transmission Service Rates;
- · Wholesale Market Service Rate;
- · Rural or Remote Rate Protection Charge;
- Standard Supply Service Administrative Charge;
- · Transformation and Primary Metering Allowances;
- · Loss Factors;
- · Specific Service Charges;

EB-2012-0174 Wellington North Power Inc.

- · MicroFIT Service Charge; and
- · Retail Service Charges.

### **Rural or Remote Electricity Rate Protection Charge**

On March 21, 2013, the Board issued a Decision with Reasons and Rate Order (EB-2013-0067) establishing that the Rural or Remote Electricity Rate Protection ("RRRP") used by rate regulated distributors to bill their customers shall be \$0.0012 per kilowatt hour effective May 1, 2013. The draft Tariff of Rates and Charges flowing from this Decision and Order reflects this RRRP charge.

### Wholesale Market Service Rate

On March 21, 2013, the Board issued a Decision with Reasons and Rate Order (EB-2013-0067) establishing that the Wholesale Market Service rate ("WMS rate") used by rate regulated distributors to bill their customers shall be \$0.0044 per kilowatt hour effective May 1, 2013. The draft Tariff of Rates and Charges flowing from this Decision and Order reflects this WMS rate.

### **Smart Metering Entity Charge**

On March 28, 2013, the Board issued a Decision and Order (EB-2012-0100/EB-2012-0211) establishing a Smart Metering Entity charge of \$0.79 per month for Residential and General Service Less Than 50 kW customers for those distributors identified in the Board's annual *Yearbook of Electricity Distributors*. This charge will be in effect from May 1, 2013 to October 31, 2018. The draft Tariff of Rates and Charges flowing from this Decision and Order reflects this Smart Metering Entity charge.

#### MicroFIT Service Charge

On September 20, 2012, the Board issued a letter advising that the default province-wide fixed monthly charge for all electricity distributors related to the microFIT Generator Service Classification was to be updated to \$5.40 per month effective with the implementation of electricity distributors' 2013 rates applications. The draft Tariff of Rates and Charges flowing from this Decision and Order reflects the new default microFIT service charge.

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 141 of 219

**Ontario Energy Board** 

EB-2012-0174 Wellington North Power Inc.

### **Shared Tax Savings Adjustments**

In its Supplemental Report, the Board determined that a 50/50 sharing of the impact of currently known legislated tax changes, as applied to the tax level reflected in the Board-approved base rates for a distributor, is appropriate.

The calculated annual tax reduction will be allocated to customer rate classes on the basis of the Board-approved base-year distribution revenue. These amounts will be refunded to customers over a 12-month period, through a volumetric rate rider using annualized consumption by customer class underlying the Board-approved base rates.

WNPI rebased in 2012, with a combined federal and provincial tax rate of 15.5%. WNPI's application contained a completed Shared Tax Savings Workform which indicated that the applicable tax rate for 2013 remains unchanged from 2012. As a result, there are no tax changes forecast to be shared with WNPI's customers.

### Retail Transmission Service Rates ("RTSRs")

Electricity distributors are charged for transmission costs at the wholesale level and subsequently pass these charges on to their distribution customers through the RTSRs. Variance accounts are used to capture timing differences and differences in the rate that a distributor pays for wholesale transmission service compared to the retail rate that the distributor is authorized to charge when billing its customers (i.e. variance Accounts 1584 and 1586).

On June 22, 2012 the Board issued revision 3.0 of the *Guideline G-2008-0001* - *Electricity Distribution Retail Transmission Service Rates* (the "RTSR Guideline"). The RTSR Guideline outlines the information that the Board requires electricity distributors to file to adjust their RTSRs for 2013. The RTSR Guideline requires electricity distributors to adjust their RTSRs based on a comparison of historical transmission costs adjusted for the new Ontario Uniform Transmission Rates levels and the revenues generated under existing RTSRs. Similarly, embedded distributors whose host is Hydro One Networks Inc. ("Hydro One") should adjust their RTSR's to reflect any changes in Hydro One's Sub-Transmission class RTSRs. The objective of resetting the rates is to minimize the prospective balances in Accounts 1584 and 1586. In order to assist electricity distributors in the calculation of the distributors' specific RTSRs, Board staff provided a filing module.

Page 142 of 219

### **Ontario Energy Board**

EB-2012-0174 Wellington North Power Inc.

WNPI is a fully embedded distributor whose host is Hydro One.

On December 20, 2012, the Board approved new rates for Hydro One Sub-Transmission class RTSRs effective January 1, 2013 (EB-2012-0136), as shown in the following table.

### 2013 Sub-Transmission RTSRs

Network Service Rate	\$3.18 per kW
Connection Service Rates	
Line Connection Service Rate	\$0.70 per kW
Transformation Connection Service Rate	\$1.63 per kW

I find that these Sub-Transmission class RTSRs are to be incorporated into the filing module.

### Review and Disposition of Group 1 Deferral and Variance Account Balances

The Report of the Board on Electricity Distributors' Deferral and Variance Account Review Report Initiative (the "EDDVAR Report") provides that, during the IRM plan term, the distributor's Group 1 account balances will be reviewed and disposed if the preset disposition threshold of \$0.001 per kWh (debit or credit) is exceeded. The onus is on the distributor to justify why any account balance in excess of the threshold should not be disposed.

WNPI's 2011 actual year-end total balance for Group 1 Accounts including interest projected to April 30, 2013 is a debit of \$47,056. This amount results in a total debit claim of \$0.0005 per kWh, which does not exceed the preset disposition threshold.

While no disposition is required as the preset disposition threshold has not been met, WNPI noted in its manager's summary that there were variances in Account 1588 Power, excluding the Global Adjustment, and Account 1588 Global Adjustment subaccount between WNPI's audited financial statements and its *Reporting and Record-keeping Requirements* for the year ending December 31, 2011. WNPI provided an explanation for these differences and stated that corrective measures were made in 2012 to redress these variances.

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 143 of 219

### **Ontario Energy Board**

EB-2012-0174 Wellington North Power Inc.

In its submission, Board staff confirmed that WNPI has taken measures to correct the balances in Account 1588 Power going forward, excluding the Global Adjustment sub-account, and Account 1588 Global Adjustment sub-account as of December 31, 2011. Board staff noted the importance of doing so since these balances are disposed to different groups of customers. Specifically, Account 1588 Power, excluding the Global Adjustment sub-account is disposed to all customers, and Account 1588 Global Adjustment sub-account is disposed to non-RPP customers only.

I accept the explanations provided by WNPI and therefore find that no disposition is required at this time.

### **Rate Model**

With this Decision, the Board is providing WNPI with a rate model (spreadsheet) and applicable supporting models and a draft Tariff of Rates and Charges (Appendix A) that reflects the elements of this Decision. The Board has reviewed the entries in the rate model to ensure that they are in accordance with the 2012 Board approved Tariff of Rates and Charges and the rate model was adjusted, where applicable, to correct any discrepancies.

### THE BOARD ORDERS THAT:

- 1. WNPI's new distribution rates shall be effective May 1, 2013.
- 2. WNPI shall review the draft Tariff of Rates and Charges set out in Appendix A. WNPI shall file with the Board a written confirmation assessing the completeness and accuracy of the draft Tariff of Rates and Charges, or provide a detailed explanation of any inaccuracies or missing information within 7 days of the date of issuance of this Decision and Order.
- 3. If the Board does not receive a submission from WNPI to the effect that inaccuracies were found or information was missing pursuant to item 2 of this Decision and Order, the draft Tariff of Rates and Charges set out in Appendix A of this Decision and Order will become final effective May 1, 2013, and will apply to electricity consumed or estimated to have been consumed on and after May 1, 2013. WNPI shall notify its customers of the rate changes no later than with the first bill reflecting the new rates.

EB-2012-0174 Wellington North Power Inc.

- 4. If the Board receives a submission from WNPI to the effect that inaccuracies were found or information was missing pursuant to item 2 of this Decision and Order, the Board will consider the submission of WNPI and will issue a final Tariff of Rates and Charges.
- 5. WNPI shall pay the Board's costs incidental to this proceeding upon receipt of the Board's invoice.

All filings to the Board must quote file number EB-2012-0174, be made through the Board's web portal at, <a href="https://www.pes.ontarioenergyboard.ca/eservice//">https://www.pes.ontarioenergyboard.ca/eservice//</a> and consist of two paper copies and one electronic copy in searchable / unrestricted PDF format. Filings must clearly state the sender's name, postal address and telephone number, fax number and e-mail address. Parties must use the document naming conventions and document submission standards outlined in the RESS Document Guideline found at <a href="https://www.ontarioenergyboard.ca">www.ontarioenergyboard.ca</a>. If the web portal is not available parties may email their document to <a href="mailto:BoardSec@ontarioenergyboard.ca">BoardSec@ontarioenergyboard.ca</a>. Those who do not have internet access are required to submit all filings on a CD in PDF format, along with two paper copies. Those who do not have computer access are required to file 2 paper copies.

DATED at Toronto, April 4, 2013

**ONTARIO ENERGY BOARD** 

Original signed by

Kirsten Walli Board Secretary

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 145 of 219

# Appendix A

**To Decision and Order** 

**Draft Tariff of Rates and Charges** 

Board File No: EB-2012-0174

**DATED: April 4, 2013** 

Decision and Order April 4, 2013

Page 1 of 10

# **Wellington North Power Inc.**TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

## RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to the supply of electrical energy to Customers residing in residential dwelling units, Energy is generally supplied as single phase, 3-wire, 60-Hertz, having a nominal voltage of 120/240 Volts, Further servicing details are available in the distributor's Conditions of Service.

### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	18.05
Rate Rider for Disposition of Residual Historical Smart Meter Costs – effective until April 30, 2014	\$	0.99
Rate Rider for Recovery of Stranded Meter Assets - effective until April 30, 2014	\$	1.83
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0181
Low Voltage Service Rate	\$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Account (2010) - effective until April 30, 2014	\$/kWh	(0.0058)
Rate Rider for Disposition of Deferral/Venance Account (2012) - effective until April 30, 2014	\$/kWh	(0.0027)
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kWh	0.0046
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) / Shared Savings Mechanism		
(SSM) Recovery - effective until April 30, 2014	\$/kWh	0.0004
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0045
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 147 of 219

Page 2 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# **GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION**

This classification applies to customers in General Service buildings with a connected load less than 50 kW, and Town Houses and Condominiums that require centralized bulk metering. General Service buildings are defined as buildings that are used for purposes other than single-family dwellings. Further servicing details are available in the distributor's Conditions of Service.

#### APPLICATION

Wholesale Market Service Rate

Standard Supply Service - Administrative Charge (If applicable)

Rural Rate Protection Charge

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST

# **MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	38.32
Rate Rider for Disposition of Residual Historical Smart Meter Costs effective until April 30, 2014	\$	9.32
Rate Rider for Recovery of Stranded Meter Assets effective until April 30, 2014	\$	9.83
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0164
Low Voltage Service Rate	s/kWh	0.0015
Rate Rider for Disposition of Deferral/Variance Account (2010) – effective until April 30, 2014	\$/kWh	(0.0042)
Rate Rider for Disposition of Deferral/Variance Account (2012) - effective until April 30, 2014	\$/kWh	(0.0051)
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) – effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kWh	0.0046
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) / Shared Savings Mechanism		
(SSM) Recovery - effective until April 30, 2014	\$/kWh	0.0022
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0064
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0038
MONTHLY RATES AND CHARGES - Regulatory Component		

0.0044 0.0012

\$/kWh

\$AtV/h

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 148 of 219

Page 3 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# **GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION**

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. Further servicing details are available in the distributor's Conditions of Service

#### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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Service Charge	\$	269_39
Distribution Volumetric Rate	\$/kW	3.5779
Low Voltage Service Rate	\$/kW	0.6050
Rate Rider for Disposition of Deferral/Variance Account (2010) - effective until April 30, 2014	\$/kW	(0.0995)
Rate Rider for Disposition of Deferral/Variance Account (2012) – effective until April 30, 2014	\$AW	(2.5258)
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) – effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kW	1.7790
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism (LRAM) / Shared Savings Mechanism		
(SSM) Recovery - effective until April 30, 2014	\$/kW	0.2897
Retail Transmission Rate - Network Service Rate	\$AW	2.6260
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5142
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 149 of 219

Page 4 of 10

# **Wellington North Power Inc.**TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# GENERAL SERVICE 1,000 TO 4,999 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 1,000 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service

#### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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Service Charge	\$	2,201.78
Distribution Volumetric Rate	\$AW	1.8475
Low Voltage Service Rate	\$/kW	0.6632
Rate Rider for Disposition of Deferral/Variance Account (2010) - effective until April 30, 2014	\$AkW	0.2871
Rate Rider for Disposition of Deferral/Variance Account (2012) – effective until April 30, 2014	\$AW	(2 8854)
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kW	2.0018
Retail Transmission Rate - Network Service Rate	\$/kW	2.7892
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6600
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$AWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Page 5 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, decorative street lighting, billboards, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service

### **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

\$	17.66
\$/kWh	0.0142
\$/kWh	0.0015
\$/kWh	(0 0065)
\$/kWh	0.0009
\$/kWh	0.0046
\$AcWh	0.0064
\$/kWh	0.0038
	SAWH SAWH SAWH SAWH SAWH SAWH

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 151 of 219

Page 6 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts for unmetered lighting loads supplied to sentinel lights. Further servicing details are available in the distributor's Conditions of Service

### **APPLICATION**

Rural Rate Protection Charge

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

# **MONTHLY RATES AND CHARGES - Delivery Component**

Standard Supply Service - Administrative Charge (if applicable)

Service Charge	\$	5.12
Distribution Volumetric Rate	\$/kW	18.9208
Low Voltage Service Rate	\$#W	0.4775
Rate Rider for Disposition of Deferral/Variance Account (2010) - effective until April 30, 2014	\$/kW	(5 3293)
Rate Rider for Disposition of Deferral/Variance Account (2012) - effective until April 30, 2014	\$/kW	3.7824
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014		
Applicable only for Non-RPP Customers	SAW	1.6671
Retail Transmission Rate - Network Service Rate	\$AW	1.9904
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$kW	1.1951
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044

0.0012

\$/kWh

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 152 of 219

Page 7 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts for roadway lighting with a Municipality, Regional Municipality, and Ministry of Transportation. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

## **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	6,95
Distribution Volumetric Rate	\$/kW	7.7414
Low Voltage Service Rate	\$AW	0.4677
Rate Rider for Disposition of Deferral/Variance Account (2010) - effective until April 30, 2014	\$/kW	(1 7072)
Rate Rider for Disposition of Deferral/Variance Account (2012) – effective until April 30, 2014	\$/kW	(2 1396)
Rate Rider for Disposition of Global Adjustment Sub-Account (2012) - effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$#W	1.6953
Retail Transmission Rate - Network Service Rate	\$/kW	1.9804
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1,1707
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (If applicable)	\$	0.25

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 153 of 219

Page 8 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2013

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This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# microFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

## **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

# **MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge \$ 5.40

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 154 of 219

Page 9 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES

Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

# SPECIFIC SERVICE CHARGES

## **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Orderof the Board, and amendments thereto as approved by the Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, charges forthe Ministry of Energy Conservation and Renewable Energy Program, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

### **Customer Administration**

Notification charge	\$	15.00
Account History	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Special meter reads	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment – per annum	%	19.56
Collection of account charge - no disconnection - during regular business hours	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185,00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole - after regular hours	\$	415.00
Install/Remove toad control device – during regular hours	\$	65,00
Interval Meter Load Management Tool Charge \$/month	\$	50.00
Service call – customer owned equipment	\$	30.00
Service Call - Customer-owned Equipment - After Regular Hours	\$	165.00
Temporary service installation and removal – overhead – no transformer	\$	500.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 155 of 219

Page 10 of 10

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2013

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2012-0174

# **RETAIL SERVICE CHARGES (if applicable)**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, charges for the Ministry of Energy Conservation and Renewable Energy Program, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100.00
Monthly Fixed Charge, per retailer	\$	20.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.25
Processing fee, per request, applied to the requesting party	\$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retaiters and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	\$	no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

# **LOSS FACTORS**

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0716
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0609

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 156 of 219

# **Appendix 2:** Proposed Tariff of Rates and Charges

Set out below are the "Proposed" Tariff of Rates and Charges based upon the output from the IRM Rate Generator model (v2.3) for an effective and implementation date of May 1, 2014.

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to the supply of electrical energy to Customers residing in residential dwelling units. Energy is generally supplied as single phase, 3-wire, 60-Hertz, having a nominal voltage of 120/240 Volts. Further servicing details are available in the distributor's Conditions of Service.

# APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

# **MONTHLY RATES AND CHARGES - Delivery Component**

		- 1
Service Charge	\$	18.14
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.01820
Low Voltage Service Rate	\$/kVVh	0.00180
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kVVh	0.00010
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kVVh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00650
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.00414
Rate Rider for Incremental Capital - Service Charge	\$	0.86
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kWh	0.00086

# MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate	\$/kVVh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0 2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 157 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to customers in General Service buildings with a connected load less than 50 kW, and Town Houses and Condominiums that require centralized bulk metering. General Service buildings are defined as buildings that are used for purposes other than single-family dwellings. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST

Service Charge	5	38.50
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kV/h	0.01650
Low Voltage Service Rate	\$/kWh	0.00150
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kW/h	0.00010
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		1
Applicable only for Non-RPP Customers	\$/k\Vh	(0.00210)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.00603
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/k\/\/h	0.00350
Rate Rider for Incremental Capital - Service Charge	\$	1.82
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kVVh	0.00078
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 158 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# **GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION**

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. Further servicing details are available in the distributor's Conditions of Service

#### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	S	270.68
Distribution Volumetric Rate	\$/kW	3.59510
Low Voltage Service Rate	\$/kVV	0.60500
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kV/	0.03960
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	S/kW	(0.80500)
Retail Transmission Rate - Network Service Rate	\$/kW	2.47561
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVV	1.39465
Rate Rider for Incremental Capital - Service Charge	S	12.81
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.17017
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 159 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# GENERAL SERVICE 1.000 TO 4.999 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 1,000 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

		1
Service Charge	\$	2,212.35
Distribution Volumetric Rate	\$/kVV	1.85640
Low Voltage Service Rate	\$/kVV	0.66320
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kVV	0.04430
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kVV	(0.90450)
Retail Transmission Rate - Network Service Rate	\$/kVV	2.62946
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVV	1.52894
Rate Rider for Incremental Capital - Service Charge	\$	104.72
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.08787
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kVVh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 160 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

FR-2013-0178

0.2500

# UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, decorative street lighting, billboards, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service

## **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

# **MONTHLY RATES AND CHARGES - Delivery Component**

Standard Supply Service - Administrative Charge (if applicable)

	j)
\$	17.74
\$/kWh	0.01430
\$/kWh	0.00150
S/kWh	0.00010
\$/kV/h	(0.00210)
\$/kVVh	0.00603
\$/kWh	0.00350
s	0.84
\$/kVVh	0.00068
\$/kVVh	0.0044
\$/kWh	0.0012
	S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 161 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts for unmetered lighting loads supplied to sentinel lights. Further servicing details are available in the distributor's Conditions of Service

## APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	5.14
Distribution Volumetric Rate	\$/k/V	19.01160
Low Voltage Service Rate	\$/kVV	0.47750
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kW	0.07030
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/k\V	(0.75320)
Retail Transmission Rate - Network Service Rate	\$/kVV	1.87641
Retail Transmission Rate - Line and Transformation Connection Service Rate	S/kW	1.10074
Rate Rider for Incremental Capital - Service Charge	\$	0.24
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kW	0.89991
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 162 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts for roadway lighting with a Municipality, Regional Municipality, and Ministry of Transportation. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

Service Charge	\$	6.98
Distribution Volumetric Rate	\$/kW	7.77860
Low Voltage Service Rate	\$/kW	0.46770
Rate Rider for Disposition of Deferral/Variance Account (2014) - effective until April 28, 2016	\$/kW	0.03740
Rate Rider for Disposition of Global Adjustment Sub-Account (2014) - effective until April 28, 2016		
Applicable only for Non-RPP Customers	\$/kW	(0.76600)
Retail Transmission Rate - Network Service Rate	\$/kVV	1.86698
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kVV	1.07827
Rate Rider for Incremental Capital - Service Charge	\$	0.33
Rate Rider for Incremental Capital - Distribution Volumetric	\$/kVV	0.36820
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	S/kV/h	0.0044
Rural Rate Protection Charge	\$/kV/h	0.0012
Standard Supply Service - Administrative Charge (if applicable)	\$	0.2500

Wellington North Power Inc.
OEB File No: EB-2013-0178
4th Generation IRM Adjustment
Page 163 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# MICROFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

## **APPLICATION**

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 5.40

MONTHLY RATES AND CHARGES - Regulatory Component

MONTHLY RATES AND CHARGES - Regulatory Component

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	S/KVV	(0,60)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

# SPECIFIC SERVICE CHARGES

### APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or of the Board, and amendments thereto as approved by the Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Adjustment, the Ontario Clean Energy Benefit and the HST.

## **Customer Administration**

Notification charge	\$	15.00
Account History	\$	15.00
Returned cheque (plus bank charges)	5	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Special meter reads	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		1
Late Payment – per month	%	1.50
Late Payment – per annum	%	19.56
Collection of account charge - no disconnection - during regular business hours	\$	30.00
Disconnect/Reconnect at meter – during regular hours	s	65 00

Late Payment – per annum	%	19.56
Collection of account charge - no disconnection - during regular business hours	\$	30.00
Disconnect/Reconnect at meter – during regular hours	\$	65.00
Disconnect/Reconnect at meter – after regular hours	\$	185.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00
Install/Remove load control device – during regular hours	S	65.00
Interval Meter Load Management Tool Charge \$/month	\$	50.00
Service call – customer owned equipment	\$	30.00
Service Call Customer-owned Equipment After Regular Hours	3	165.00
Temporary Service – Install & remove – overhead – no transformer	\$	500.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment

Page 165 of 219

# Wellington North Power Inc. TARIFF OF RATES AND CHARGES Effective and Implementation Date May 1, 2014

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2013-0178

# RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity

One-time charge, per retailer, to establish the service agreement between the distributor and	\$	100.00	
Monthly Fixed Charge, per retailer	\$	20.00	
Monthly Variable Charge, per customer, per retailer	\$/cust	0.50	
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.30	
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.30)	
Service Transaction Requests (STR)			
Request fee, per request, applied to the requesting party	\$	0.25	
Processing fee, per request, applied to the requesting party	\$	0.50	
Request for customer information as outlined in Section 10.6,3 and Chapter 11 of the Reta	il		
Settlement Code directly to retailers and customers, if not delivered electronically through the			
Electronic Business Transaction (EBT) system, applied to the requesting party			
Up to twice a year	\$	no charge	
More than twice a year, per request (plus incremental delivery costs)	\$	2.00	

# LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss

Total Loss Factor - Secondary Metered Customer < 5,000 kW

1.0716

Distribution Loss Factor - Primary Metered Customer < 5,000 kW

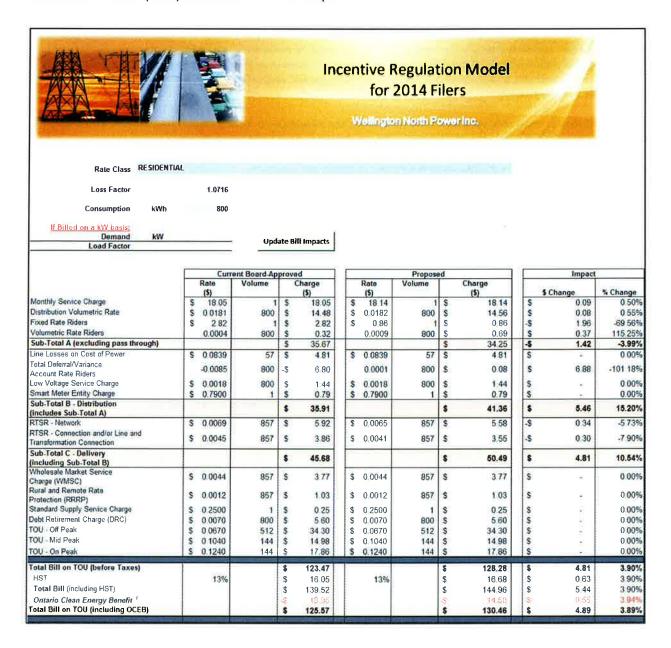
1.0609

# **Appendix 3:** Customer Bill Impacts

The tables below show the Bill Impact for a Residential customer and a General Service <50 kW customer.

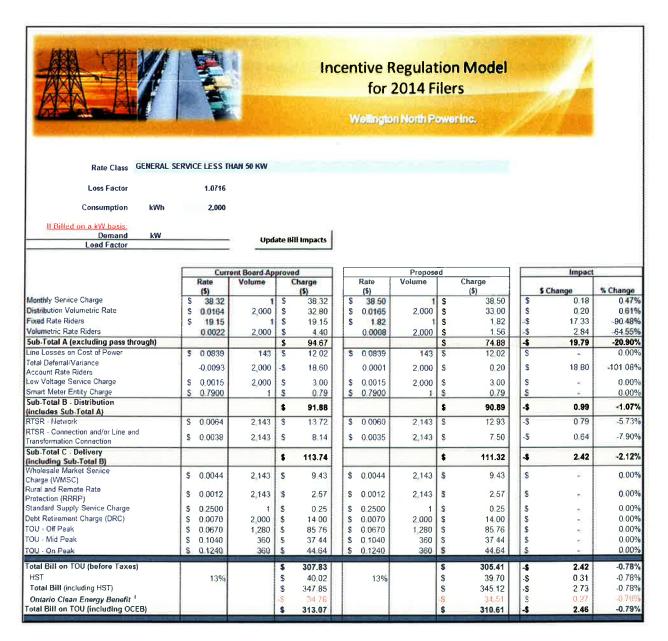
# Residential Customer - 800 kWh:

The Rates and Charges in the table below are based upon the output from the IRM Rate Generator model (v2.3) worksheet 14 "Bill Impacts".



# General Service <50 kW Customer - 2,000 kWh:

The Rates and Charges in the table below are based upon the output from the IRM Rate Generator model (v2.3) worksheet 14 "Bill Impacts".



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 168 of 219

# Appendix 4: Capital Expenditure Plans 2013 - 2018

In Exhibit 5 of this application, WNP has included an Incremental Capital Module to fund the replacement of one of its substation (MS2.) On an annual basis, WNP has performed scheduled maintenance of its six distribution substations, with the assistance of annual inspections undertaken by a 3<sup>rd</sup> party. And in WNP's Capital Expenditure plans (CapEx), the LDC has provisioned \$240,000 for 2014 and \$250,000 each year for 2015 to 2018 to replace major components of the substations.

Over the following pages are copies of the Applicant's CapEx planned items for the period 2013 to 2018, with:

- 2013 reflecting the provision for an independent 3<sup>rd</sup> party assessment of all six of WNP's substations; and
- 2014 to 2018 including provision for replacing/upgrading major components of the substations.

It should be noted that WNP filed a view of its Capital Expenditure plan for the period 2013 to 2018 in its' Cost of Service application (EB-2011-0249 - Exhibit 2, Tab 5, Schedule 7 pages 254-257 contain tables, tables 2-60 to 2-65) which cited the provision for substation investment/refurbishment.

The tables below summarise WNP's CapEx plan for the period 2013 – 2018 and reflect the annual CapEx budget of \$760,000 that was approved in EB-2011-0249, with the substation items highlighted. Note: 2014 CapEx table reflects the Applicant's plan prior to determining Discretionary and Non-Discretionary items as outlined in Exhibit 5.

Year	Ref	Name	Description	Revised Estimat
Annual	Capital Proj	ects:		
2013	2013-001	Annual Pole Replacement	Replacement of hydro poles in distribution system	\$30,000
2013	2013-002	Transformer Replacement	To replace transformers in the distribution system	\$50,000
2013	2013-003	New Services	Provision for installation of equipment for new services	\$30,000
2013	2013-004	Meters	Commercial and Industrial Meter Replacement	\$10,000
			REX2 Replacement Project	
2013	2013-005	Meters	Replacement of 750 Meters	\$75,000
			1/4 of Meter Population	
			Sub Total	\$195,000
ole Lir	ne Projects:			
2013	2013-006	Geogina Street	Pole Line Rebuild from Isabella to Frederick	\$25,000
2013	2013-007	Queen St West	Pole Line Rebuild from MS4 to Arthur Street	\$80,000
2013	2013-008	Main Street North	Conductor Project by No Frills	\$10,000
2013	2013-009	Wells Street East	Remove Plant on South-side of Wells Street East	\$10,000
			Sub Total	\$125,000
V-SWIDO	100 100 100 100 100 100 100 100 100 100	Name of the Association of the A		
nderg	round Distri	bution projects:		
2013	2013-013	Bye Townhomes	New Townhome Development	\$10,000
		,	Birmingham East in Mt Forest	
2013	2013-014	Strathcona - Ph2	New Townhome Development	\$15,000
-			Princess Street in Mt Forest	
2013	2013-015	Preston Townhomes	New Townhome Development Preston Street in Arthur	\$20,000
			Preston Street in Arthur Sub Total	\$45,000
Subetat	tion Asset Pr	olects:	0001000	
200	-	Asset Management Report		
2013	2013-016	Sub-Stations	Condition Assessment	\$40,000
	17.15		Sub Total	\$40,000
ranps	ortation proj	ects Projects		
2013	2013-017	Replace Truck 50 2008 Dodge	Five Years Old	\$30,000
2013	2013-018	Altec	Replace 1998 Double Bucket Truck-2012 new Altec AM60, 65' working height	\$240,000
			Sub Total	\$270,000
		=		
	stration Proje			
2013		Administrative	Administrative Capital Budget	\$65,000
2013		Workstation replacement	Employee workstations are on a rotation for replacement 2 units annually	\$5,000
			Sub Total	\$70,000
uildine	Ponovotion	a / Build Brainster		
uliaing 1013	Renovation	ns / Build Projects: Building Renovations	Potalled Posign Work	
013		Building Renovations	Detailed Design Work  Arthur Shop	\$5,000
013		Building Renovations	Building Maintenance Projects	\$5,000
		Building Loan Payments	Bonding Maintenance Projects	
2013		(Principal Payments only)		\$4,112
		,	Sub Total	\$14,112

Year	Ref	Name	Description	Revised Estimat
Annua	I Capital Proj	ects:		
2014	2014-001	Annual Pole Replacement	Replacement of hydro poles in distribution system	\$30,000
2014	2014-002	Transformer Replacement	To replace transformers in the distribution system	\$50,000
2014	2014-003	New Services	Provision for installation of equipment for new services	\$30,000
2014	2014-004	Meters	Commercial and Industrial Meter Replacement	\$10,000
			REX2 Replacement Project	
2014	2014-005	Meters	Replacement of 750 Meters	\$75,000
		0	1/4 of Meter Population	
			Sub Total	\$195,000
ole Li	ne Projects:		la transfer de la constante de	
2014	2014-006	Eliza Street at George	Pole Line Rebuild 5 Poles	\$25,000
			Pole Line Rebuild	
2014	2014-007	Adelaide Street	9 Poles	\$25,000
2014	2014 000	Film Charact Fatanaian	New Pole Line Install from Tucker to limit of Arthur	Cas con
2014	2014-009	Eliza Street Extension	Village	\$25,000
2014	2014-010	Frederick St E. Pole Replacement	Pole Replacement	\$75,000
			Sub Total	\$150,000
<b>Jnderg</b>	round Distri	bution projects:		
2014	2014-013	Eastview Drive	UG Rebuild	\$30,000
.000000			3 Pad-mount TX	100000000000000000000000000000000000000
2014	2014-014	Backlot Conversion - Byeland Avenue New Subdivision Capital Work	Installation of conductors & devices	\$15,000
2014	2014-013	New Subdivision Capital Work	Sub Total	\$65,000
Subeta	tion Accet Dr	rainata:	Sub Iotal	403,000
2014	tion Asset Pr 2014-016		Manual Parist	\$240,000
2014	2014-016	Major Sub-Station Project	Mount Forest Sub Total	\$240,000
ranps	ortation proj	ects Projects		
	CONTRACTOR OF THE PARTY OF THE	Replacement Truck 20	Fig. 30. 30. See all and a second sec	WI-SPIECE
2014	2014-017	2008 Ford	Six Years Old	\$30,000
			Sub Total	\$30,000
The second second	stration Proje	A STATE OF THE STA		
2014	2014-008	WNP Internal Server	Upgrade Server Hardware	\$20,000
2014	2014-009	Engineering Computer	Enhanced System for AutoCAD	\$20,000
2014	2014-010	Smart Meter Server replacement	Replace server serving Elster Smart Meters Employee workstations are on a rotation for	\$16,000
2014	2014-011	Workstation replacement	replacement 2 units annually	\$5,000
2014	2014-012	Postage and Mailing Stuffer	Replace current model	\$10,000
2014	2014-013	Okidata Printer	Colour Laser Printer	\$4,000
			Sub Total	\$75,000
	Renovation	s / Build Projects:	To the second se	(30,000 30,000)
2014		Building Renovations	Building Maintenance Projects	\$5,000
			Sub Total	\$5,000

Year	Ref	Mame	Description	Revised Estima
Annua	l Capital Proj	ects:		
2015	2015-001	Annual Pole Replacement	Replacement of hydro poles in distribution system	\$30,000
2015	2015-002	Transformer Replacement	To replace transformers in the distribution system	\$50,000
2015	2015-003	New Services	Provision for installation of equipment for new services	\$30,000
2015	2015-004	Meters	Commercial and Industrial Meter Replacement	\$10,000
			REX2 Replacement Project	<b>\$10,000</b>
2015	2015-005	Meters	Replacement of 750 Meters	\$75,000
			1/4 of Meter Population	4.5,
			Sub Total	\$195,000
ole Li	ne Projects:			
2015	2015-006	Queen Street West	Pole Line Rebuild	\$60,000
2013	2013-000	btw Arthur and John	13 Poles	300,000
2015	2015-007	Waterloo Street	Pole Line Rebuild	\$75,000
2013	2013-007	Cork to Dublin	15 Poles	\$75,000
2015	2015-008	Cork and Princess	Pole Line Rebuild	\$40,000
2013	2013-000	COIX and Princess	10 Poles	\$40,000
			Sub Total	\$175,000
Jnderg	round Distri	bution projects:	TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE	
2015	2015-010	Forest Glenn Crescent	Underground Loop	\$40,000
2015	2015-011		4 Pad-mount TX	\$20,000
2013	2013-011		New Sudivision Projects Sub Total	\$60,000
				<b>V</b> 40,000
Substat	tion Asset Pr	ojects:		
2015	2015-012	Major Sub-Station Project	Mount Forest	\$250,000
	4 41 .		Sub Total	\$250,000
ranps	ortation proj	ects Projects		
		_	Sub Total	\$0
dminis	stration Proje	ects		
2015	2015-010	Projector	Projector for office	\$2,000
2015	2015-011	Software Development	Upgrade existing software	\$15,000
2015	2015-012	Smart Meter	Network work hardware ( WAN, LAN, Comm)	\$25,000
2015	2015-013	Workstation replacement	Employee workstations are on a rotation for replacement	\$5,000
			2 units annually	
			Sub Total	\$47,000
uilding	Renovation	ns / Build Projects:		
2015		Building Renovations	Building Maintenance Projects	\$6,000
		Building Loan Payments		
2015		(Principal Payments only)		\$26,334

Year	Ref	Name	Description	Revised Estima
Annu	al Capital Proj	ente:		
2016	2016-001	Annual Pole Replacement	Replacement of hydro poles in distribution system	\$30,000
2016	2016-002	Transformer Replacement	To replace transformers in the distribution system	\$50,000
2016	2016-003	New Services	Provision for installation of equipment for new services	\$30,000
2016	2016-004	Meters	Commercial and Industrial Meter Replacement	\$10,000
			REX2 Replacement Project	
2016	2016-005	Meters	Replacement of 750 Meters	\$75,000
			1/4 of Meter Population	
			Sub Total	\$195,000
ole L	ine Projects:			
Secretary and	-	Waterloo Street	Pole Line Rebuild	èce one
2016	2016-006	Dublin to John	17 Poles	\$65,000
2016	2016-007	Preston Street	Pole Line Rebuild	Ć40 000
2010	2016-007	Domville to Smith	8 Poles	\$40,000
2016	2016-008	James Street	Re-Conductor	\$50,000
2016	2016-009	Malataia Bassilat Cassassia	Pole Line Rebuild	¢20.000
2010	2010-009	Holstein - Rear-lot Conversion	10 Poles	\$30,000
			Sub Total	\$185,000
Inder	ground Distril	bution projects:		
2016	2016-011	Forest Glenn Drive	Underground Loop	\$30,000
			3 Pad-mount TX	4
2016	2015-014		New Sudivision Projects	\$20,000
			Sub Total	\$50,000
ubst	ation Asset Pr	ojects:		_
2016	2016-015	Major Sub-Station Project	Mount Forest	\$250,000
			Sub Total	\$250,000
desin	istration Proje			
2016	2016-010	Harris Server	Replace Server Hardware	\$15,000
	2010-010	, iditio del vei	Employee workstations are on a rotation for replacement	
2016	2016-009	Workstation replacement	2 units annually	\$5,000
2016		Administration Capital Budget		\$25,000
			Sub Total	\$45,000
uildir	ag Penovation	s / Build Projects:		
2016	ig iveriovation	Building Renovations	Building Maintenance Projects	\$7,000
:010		Building Loan Payments	parionis Maintenance Projects	\$7,000
2016		(Principal Payments only)		\$27,440
				\$34,440

Mark 1	1000			
Year	Ref	Name	Description	Revised Estimate
Annua	l Capital Proje	ects:		
2017	2017-001	Annual Pole Replacement	Replacement of hydro poles in distribution system	\$30,000
2017	2017-002	Transformer Replacement	To replace transformers in the distribution system	\$50,000
2017	2017-003	New Services	Provision for installation of equipment for new services	\$30,000
2017	2017-004	Meters	Commercial and Industrial Meter Replacement	\$10,000
			Sub Total	\$120,000
Pole Li	ne Projects:			
2017		Pole line work		\$200,000
				****
			Sub Total	\$200,000
Indore	round Distril	oution projects:		
	Irouna visul	duon projects.	Underground Distribution Work	\$55,000
2017				
2017	2015-014			
2017	2015-014 tion Asset Pr	oiects:	New Sudivision Projects  Sub Total	\$20,000 \$20,000 \$75,000
2017	2015-014 tion Asset Pr 2017-015	ojects:  Major Sub-Station Project	New Sudivision Projects	\$20,000
2017 Substa	tion Asset Pr 2017-015	Major Sub-Station Project	New Sudivision Projects Sub Total	\$20,000 \$75,000
2017 Substa	tion Asset Pr	Major Sub-Station Project	New Sudivision Projects Sub Total  Mount Forest	\$20,000 \$75,000 \$250,000
2017 Substa	tion Asset Pr 2017-015	Major Sub-Station Project	New Sudivision Projects Sub Total  Mount Forest	\$20,000 \$75,000 \$75,000 \$250,000 \$35,000
Substa 2017 Tranps	tion Asset Pr 2017-015 ortation proje	Major Sub-Station Project ects Projects Replace Truck 62	New Sudivision Projects Sub Total  Mount Forest Sub Total	\$20,000 \$75,000 \$250,000 \$250,000
2017   Substa 2017   Tranps 2017	tion Asset Pr 2017-015 ortation proje 2017-016	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge	New Sudivision Projects  Sub Total  Mount Forest  Sub Total  Eight Years Old	\$20,000 \$75,000 \$75,000 \$250,000 \$35,000
2017   Substa 2017   Tranps 2017	tion Asset Pr 2017-015 ortation proje	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge	New Sudivision Projects  Sub Total  Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement	\$20,000 \$75,000 \$75,000 \$250,000 \$35,000
Substa 2017 Tranps 2017 Admini 2017	tion Asset Pr 2017-015 ortation proje 2017-016 stration Proje	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge  ects  Workstation replacement	Mount Forest  Sub Total  Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement 2 units annually	\$20,000 \$75,000 \$250,000 \$250,000 \$35,000 \$5,000
Substa 2017 Tranps 2017	tion Asset Pr 2017-015 ortation proje 2017-016 stration Proje	Major Sub-Station Project ects Projects Replace Truck 62 2009 Dodge	Mount Forest  Sub Total  Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement 2 units annually	\$20,000 \$75,000 \$250,000 \$250,000 \$35,000 \$35,000 \$40,000
Substa 2017 Tranps 2017 Admini 2017	tion Asset Pr 2017-015 ortation proje 2017-016 stration Proje	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge  ects  Workstation replacement	Mount Forest  Sub Total  Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement 2 units annually	\$20,000 \$75,000 \$250,000 \$250,000 \$35,000 \$5,000
2017   Substa	tion Asset Pr 2017-015 cortation proje 2017-016 stration Proje 2016-009	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge  ects  Workstation replacement  Administration Capital Budget	Mount Forest  Sub Total  Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement 2 units annually	\$20,000 \$75,000 \$250,000 \$250,000 \$35,000 \$35,000 \$40,000
Substa 2017  Tranps 2017  Admini 2017  2017  Buildin	tion Asset Pr 2017-015 cortation proje 2017-016 stration Proje 2016-009	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge  ects  Workstation replacement  Administration Capital Budget  as / Build Projects:  Building Renovations	Mount Forest  Sub Total  Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement 2 units annually	\$20,000 \$75,000 \$250,000 \$250,000 \$35,000 \$35,000 \$40,000
2017   Substa	tion Asset Pr 2017-015 cortation proje 2017-016 stration Proje 2016-009	Major Sub-Station Project  ects Projects  Replace Truck 62 2009 Dodge  ects  Workstation replacement  Administration Capital Budget	Mount Forest  Sub Total  Eight Years Old  Sub Total  Employee workstations are on a rotation for replacement 2 units annually  Sub Total	\$20,000 \$75,000 \$250,000 \$250,000 \$35,000 \$35,000 \$40,000 \$45,000

Year	Ref	Name	Description	Revised Estimat
Annua	Capital Proje	orte:		
2018	2018-001	Annual Pole Replacement	Replacement of hydro poles in distribution system	\$30,000
2018	2018-002	Transformer Replacement	To replace transformers in the distribution system	\$50,000
2018	2018-003	New Services	Provision for installation of equipment for new services	\$30,000
2018	2018-004	Meters	Commercial and Industrial Meter Replacement	\$10,000
		•	Sub Total	\$120,000
Pole Li	ne Projects:			
2018		Pole line work		\$200,000
			Sub Total	\$200,000
l la dana	one of District			
2018	2018-006	oution projects:	Underground Distribution Work	\$60,000
2018	2018-007		New Sudivision Projects	\$20,000
			Sub Total	\$80,000
Cubata	tion Asset Pr	a ia ata :		
Dunata	2018-008	Major Sub-Station Project	Mount Forest	\$250,000
2018		Major Sub-Station Project	Manager and Control of the Control o	9230,000
2018	2010-000		Sub Total	\$250,000
		ects	Sub lotal	\$250,000
Admini	stration Proje	ects  Administration Capital Budget		\$70,000
Admini 2018	stration Proje	Administration Capital Budget	Employee workstations are on a rotation for replacement	\$70,000
Admini 2018 2018	stration Proje	Administration Capital Budget	Employee workstations are on a rotation for replacement 2 units annually	\$70,000 \$5,000
Admini 2018 2018 Buildin	stration Proje	Administration Capital Budget Workstation replacement	Employee workstations are on a rotation for replacement 2 units annually	\$70,000 \$5,000
Admini 2018 2018	stration Proje	Administration Capital Budget Workstation replacement  IS / Build Projects:	Employee workstations are on a rotation for replacement 2 units annually  Sub Total	\$70,000 \$5,000 <b>\$70,000</b>

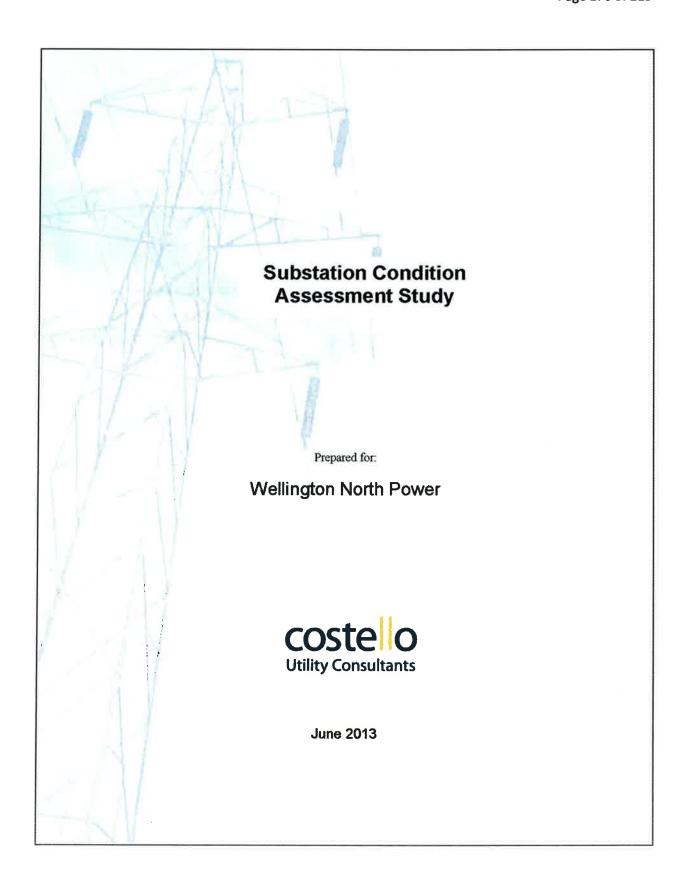
Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 175 of 219

# Appendix 5: 3<sup>rd</sup> Party Substation Condition Assessment Study

The following pages contain a copy of the 3<sup>rd</sup> party Substation Condition Assessment Study that was commissioned by WNP in 2013. This report identifies deficiencies in the substations that require attention. Page 2 of the report states the concern regarding the age of these substations (i.e. two substations being over 40 years old) and hence the requirement of a strategy for replacement which has been discussed in Exhibit 5 of this application.

# Notes:

- 1. The report below is a "shortened" version containing the substation assessment findings and information relevant to Substation MS2 (MS2 is the substation that WNP is seeking revenue requirement through inclusion of the Incremental Capital module as per its 2014 IRM application.)
- WNP has reviewed the assessment report in detail and will address those deficiencies identified where the LDC has the capability (i.e. knowledge, training and expertise).
   However, 3<sup>rd</sup> party technical expertise will be required to address the deficiencies that the LDC cannot correct.



## 1 INTRODUCTION

As part of Wellington North Power's (WNP) Asset Management Program, Costello Associates Inc. has been engaged to provide a preliminary assessment of six (6) municipal distribution substations. This assessment is based on visual inspections and limited maintenance records that were available at the time of the inspections.

This initial assessment is intended to provide the foundation for an ongoing program that includes capital planning, periodic maintenance, inspections, and testing.

# 1.1 Goals of Asset Condition Report

Asset management plans are necessary to provide a long term, systematic approach to system planning, as well as managing business and operational risk. Utilities utilize strategies for replacing aging assets, taking into consideration factors such as health and safety, environment, asset condition, life expectancy, and risk exposure.

As part of the overall asset condition process, the assessment of the condition of WNP's municipal substations can be used to prioritize stations rehabilitation and replacement projects, based on electrical condition, health and safety issues, and age.

## 1.2 Criteria for Substations Assessment

All stations were field inspected and assessed based on a model that was developed by Thunder Bay Hydro, with minor changes based on our own experiences. This model has been promoted within the Electrical Distributors Association (EDA), and has been submitted to the Ontario Energy Board (OEB) by several Local Distribution Companies (LCD's).

In determining the overall condition of a station, the evaluation model considers three main areas of concern:

- Public Safety
- Worker Safety
- · Risk of Major Equipment Failure

Classification ratings of the above categories are as follows:

- Blue excellent condition. No mitigation is required for twenty or more years.
- Purple –good condition. No mitigation is required for eleven to twenty years.
- Yellow average condition. Mitigation is required between four and 11 years.
- Orange fair condition. Mitigation is required between two to three years.
- Red poor condition. Mitigation is required immediately, within one year.

In the cases, maintenance and safety issues may degrade the condition classification on a temporary basis. Once corrective action is taken, the condition classification may improve.

# 1.3 Summary of Stations Deficiencies

Deficiencies in the stations area can be classified in three main areas: age, environmental, and public/worker safety.

### 1.3.1 Age

Major substation equipment such as power transformers and switchgear generally has a life expectancy of forty (40) years. Other equipment, such as insulated feeder cables, protection systems, batteries, and building structures may have shorter life expectancy. Life expectancy can often be extended with regular maintenance.

The age of two of the pieces of major substation equipment assessed are over 40 years with one approaching 50 years. Two more are classed between 25 and 30 years and the two newer are less than 10 years old. Clearly the age of some of these stations is a concern, and will require a strategy for replacement.

### 1.3.2 Environment

The common of environmental concern in substations is PCB contamination. To the best of our knowledge WNP has no contaminated substation transformers. We have no knowledge if older transformers were once PCB contaminated and cleaned. If so, it is possible that the soil in some of the substations has been contaminated with PCB's as a result of minor transformer leaks. No soil analysis was performed as part of this assessment. It is expected that in the event that any substation be decommissioned, a detailed soil study would be completed and any problems be dealt with in accordance with applicable regulations.

A minor environmental concern with a few stations is the close proximity to storm drains and ditches. Should there be a catastrophic failure of a power transformer, none of the WNP stations have oil containment features. It is therefore possible that a large quantity of transformer oil may be released. The utility would be held accountable to clean up such a spill and the costs for cleaning a spill into a waterway would be substantial. Where applicable, this poses a significant environmental risk, and therefore stations in proximity to water, ditches, or storm drains may want to be considered for oil containment.

The use of oil containment systems in small distribution substations historically was not considered necessary. However, we strongly believe that the benefits of oil containment outweigh the present-day risks and liabilities associated with a major oil leak. We recommend that WNP install oil containment as part of any stations rehabilitation work and on any new stations constructed in the future.

# 1.3.3 Public and Worker Safety

Public and worker safety is often considered the highest priority for any electric utility. Any station with a public safety issue automatically resulted in the lowest "Code Red" classification. Serious worker safety issues also attracted this classification. It should be noted that in some cases the work required to remedy safety issues is minor, and could be completed very quickly. These stations could then be reclassified to a more favorable rating.

Common safety issues observed include gaps in perimeter fences (public safety), climbing hazards near fences allowing possible access to station yard (public safety), lack of fence grounding (public and worker safety) and missing locks on station equipment (public safety).

Several substations may have problems with their transformer neutral connections. It is recommended that this be further investigated by engineering and maintenance personnel during planned maintenance.

The Mt. Forest MS-4 station was found to have a transformer neutral wire connected only to the ground grid. This is extremely dangerous to the public and workers and therefore it is recommended that the station be de-energized immediately.

The Arthur MS-5 station was found to have a communication cable connected between the station power meter and a radio located in a nearby building. The shield on the cable can transfer high voltages from the station to the nearby building and is an extreme safety hazard. This cable should be removed and replaced with a fiber optic cable.

### 1.3.4 Nomenclature

All operating equipment must be clearly labeled with unique operating nomenclature. This is required as per the Utility Work Protection Code in order to ensure that utility personnel can clearly identify the apparatus that is to be operated.

The nomenclature that is presently in place is a combination of old and new labels, with some apparatus having multiple designations, some with no designations and some designations that only reference the general area that the apparatus feeds.

We recommend that WNP develop a nomenclature strategy as a high priority project and to deploy updated nomenclature as soon as possible.

# 1.3.5 Maintenance Activities

WNP has been performing regular maintenance on its substations. Various local contractors have been employed to do this work over the past number of years. It appears as though the majority of the maintenance work is consistent with industry standards.

Several serious deficiencies we found were not noted in any of the recent test reports. We also noted that in several instances, test reports were incomplete or test results indicated potential serious conditions but the apparatus was re-energized without remediation.

We recommend that WNP continue with performing regular maintenance activities, and work with qualified contactors accustomed to working in utility environments and to industry-recognized standards.

# 2 SUBSTATION CONDITION ASSESSMENT SUMMARY

# 2.1 Mt. Forest MS-1 Substation

The Mt. Forest MS-1 substation transformer was installed in 1988 and therefore should still have at least 10 or more years of useful life remaining. The transformer has higher than usual CO and CO<sub>2</sub> levels, which is usually attributed to excessive loading. These gas levels have not increased in the past seven years, which may indicate that the transformer has not been routinely overloaded in that time. The transformer may however have suffered some loss of life.

The station appears to be in good operating condition. There are several maintenance issues noted in the attached deficiencies section. Nomenclature requires review and updating.

The station has been assessed to be a "Red" condition, but with some maintenance work, its rating will improve to "Yellow".

## 2.2 Mt. Forest MS-2 Substation

The MS-2 station is over 40 years old and has several potentially serious safety concerns. Diagnostic maintenance testing also indicates that there are potential concerns with the reliability of the main 5kV switchgear and some of the feeder cables. This station is a candidate for major rehabilitation work

The station perimeter fence is falling over in places, and the ground around the bottom of the fence fabric has been eroded in several places. Attempts have been made to block the fence gaps with wooden timbers. In our view this fence should be replaced immediately.

The nearby Canada Post mailbox is within arms-reach of the station fence, and it is possible that someone could receive a shock if they simultaneously touched the fence and mailbox. The mailbox should be relocated away from the station fence.

The station also requires several padlocks to be placed on equipment to prevent access to high voltage areas. As with all stations, the operating nomenclature requires updating as soon as possible.

The MS-2 substation has been assigned a rating of "Red", which will improve to "Yellow" once the safety issues are resolved and switchgear deficiencies are corrected.

# 2.3 Mt. Forest MS-3 Substation

The Mt. Forest MS-3 substation contains a transformer that was refurbished in 1988. Oil sample tests show rising CO level, likely due to excessive loading, dropping CO2 levels and rising combustible gas levels. Due to these results it is recommended that it be sampled and tested every 4 months.

History shows that rewound transformers do not usually attain the average service life of 40 years as with new ones. Due to this fact coupled with the changing gas levels in the coolant oil, plans should be made to exchange the transformer in the coming years.

Diagnostic maintenance tests show that there may also be concerns with feeder cables. Due to these test results, it is recommended that these pieces of equipment also be considered for replacement in the near future.

The majority of the safety issues with this station are similar to the others. Padlocks must be placed on power transformer tap changers and high voltages cabinets, grounding and bonding must be added or corrected, perimeter yard maintenance must be performed and as with all stations operating nomenclature must be updated.

The Mt. Forest MS-3 station has received a "Red" rating due mainly to diagnostic testing results of the transformer and feeder cables. Once safety and equipment concerns have been resolved, the station should receive a rating of "Orange".

#### Wellington North Power Substation Condition Report June 2013

## 2.4 Mt. Forest MS-4 Substation

The Mt. Forest substation is the oldest of the utility at an age of 49 years. It also shares many of the same issues as other stations in terms safety and shows signs of age. It does although contain a much more serious issue. The system neutral has been attached only to the station ground grid, which in extremely dangerous. Due to this fact, it was recommended that the station be de-energized during inspection. The neutral system must be re-engineered prior to re-energization.

Inspection revealed that other equipment deficiencies are also present. The transformer secondary side cables are improperly installed and are putting pressure on the transformer radiator. Furthermore, test results also suggest that there are problems with feeder cables.

Remaining problems found in the station are similar as in the other stations. There are missing locks on power transformers and distribution-side switchgear, wiring code violations, bonding and grounding issues and operating nomenclature must be updated.

The station is classified as "Red" due to the age of the transformer, the system neutral connection, and diagnostic test results. This station is a candidate for replacement.

## 2.5 Arthur MS-5 Substation

The Arthur MS-5 substation contains a transformer that was rebuilt in 1994. The station age is estimated to be much older. The transformer itself seems to only require minor maintenance to fix problems described in the deficiencies section. Diagnostic maintenance testing suggests that there is very low insulation resistance in both bus and cables and therefore should be investigated and repaired.

The transformer pad appears to be deteriorating. There is a good deal of "honey combing" which has been patched over the years. It is recommended that the pad be further inspected by a qualified civil engineer.

A serious concern noted was the communication cable connected between the station power meter and a radio located in a nearby building. The shield on the cable can transfer high voltages from the station to the nearby building and is a shock hazard. This cable should be removed and replaced with a fiber optic cable to provide electrical isolation.

The Arthur MS-5 substation is currently not outfitted with any oil spill containment, which could be problematic in the case of catastrophic transformer failure. There is an exposed storm drain located directly across the road. If a spill was to occur and oil made its way to the storm drain, the cleanup costs could be substantial. Therefore it is recommended that an oil containment system be planned for this station.

In addition to the common issues such as missing locks, inconsistent nomenclature and perimeter yard maintenance, there are climbing hazards that must be resolved. There must not be anything near the substation fence that could permit climbing and ease of access to the yard.

#### Wellington North Power Substation Condition Report June 2013

Considering the transformer was rebuilt in 1994 it should still have sufficient life remaining. This station has been given a rating of "Orange" but may be upgraded to a "Yellow" once maintenance issues have been remedied.

#### 2.6 Arthur MS-6 Substation

The Arthur MS-6 station transformer was installed in 2010. The station appears to be in reasonable condition, although there are minor maintenance issues.

In general the public safety of this station is very good other than the metal fence that is attached to the substation fence. This metal fence must be disconnected as soon as possible. A wooden fence may be inserted in between the substation fence and metal fence to provide isolation.

The remainders of the problems are again similar as for other stations such as missing padlocks, inconsistent nomenclature, improper grounding and bonding, wiring code violations and the necessary disposal of an obsolete switch stick

As stated above, the condition of this station is generally quite good. The station received a "Red" rating, but considering its equipment should provide many more years of reliable service, once the maintenance and safety issues are resolved it should be assessed a rating of "Purple".

# **3 RECOMMENDATIONS**

## 3.1 Maintenance Program

A regular maintenance program is critical to ensuring the safety and reliability of station assets. Regular maintenance, coupled with periodic (i.e. monthly) site inspections are commonplace in Ontario LDC's. Municipal substations are typically withdrawn from service for maintenance every three to five years, depending on the condition of the equipment and the resources available to the utility.

It is recommended that WNP continue a regular maintenance schedule on its substations as it has done in the past. It should be emphasized that it is important to work with qualified contractors accustomed to working in a utility environment and to industry-recognized standards.

# 3.2 Aging Plant

As mentioned above, two substations have exceeded the average life expectancy for this type of equipment. Two other stations are approaching their end of life. A strategy is required to plan for the replacement of these assets. The replacement cost of substation equipment is significant, and costs have been rising steadily over the past few years due to the increase in cost of metals.

#### Wellington North Power Substation Condition Report June 2013

The replacement of station assets should be forecasted, based on the safety, reliability, and age of the stations, in concert with consideration for distribution projects. Ongoing periodic condition assessments should be performed to determine the priority of replacement projects.

## 3.3 Feeder Protection & Coordination

We recommend that WNP perform a detailed review of the 44 and 4.16 kV feeder protection and coordination. There is some evidence to suggest that some of the distribution system may not have adequate overcurrent protection. This is a public safety issue, and poses a risk to WNP equipment.

## 3.4 Budgeting for Station Replacement

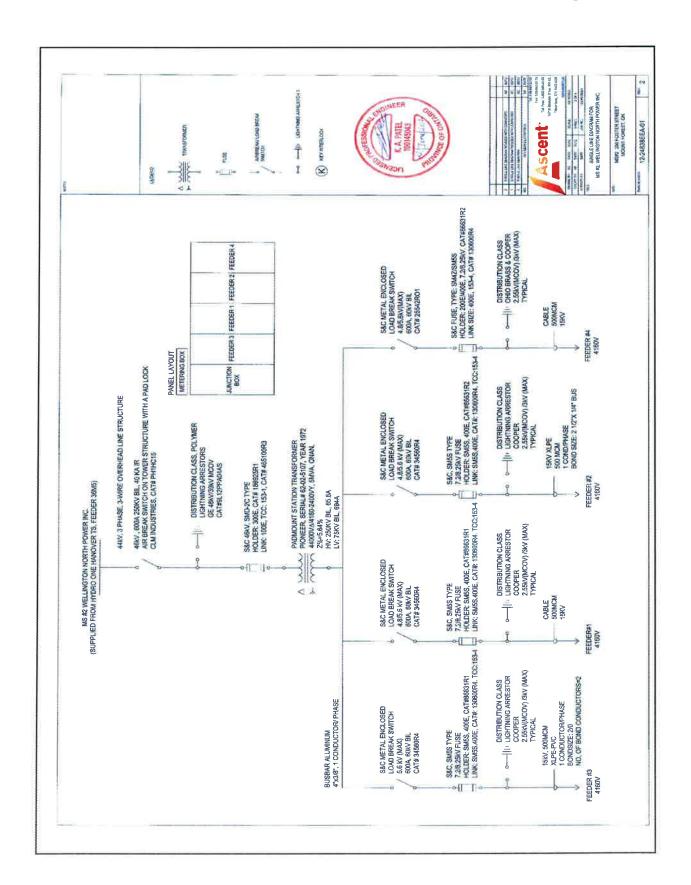
A long term forecast should be developed to plan for the budgeting and execution of station replacement projects. In conjunction with other distribution projects, the costs and timing of station projects should be coordinated and prioritized to provide a long term plan for all aspects of the distribution system.

## 4 CONCLUSION

There are numerous safety issues with the WNP substations that should be immediately addressed. A short term work plan is required to make necessary repairs as part of the 2013 operating program.

In addition, the general age and condition of the stations warrant the development of a long term replacement/ rehabilitation program.

				Comments	After maintenance, condition ≖ Yellow	After maintenance, condition = Yellow	After maintenance, condition ≈ Orange	Station candidate for repincement	After maintenance, condition = Yellow	After maintenance, condition = Purple
			Overall	Assessment C	Red	Red	Red	Red	Orange Ai	Red
	ankings		Risk of	Failure	Yellow	Yellow	Red	Red	Red	Orange
	Station Rankings		Worker	Safety		Red	Red	Red	Yellow	Red
			r Public	Safety	Orange Red	Red	Orange Red	Orange Red	Yellow	Red
			Transformer Public Worker Risk of	Age	27	4	22	64	19	e
			Transformer	Installed Voltage	1986 4.16 KV	1972 4.16 KV	1988 4.16 kV	1964 4.16 KV	1994 4.16 KV	2010 4.18 kV
				Size	5 MVA	5 MVA	5 MVA	2 MVA	5 MVA	5 MVA
	Assessment	riates Inc.		Address	280 Queen St West	388 Foster St	320 King St East	460 Durham St West	195 Isabella St South	159 Preston St North
Welfington North Hydro	Substation Asset Condition Assessment	June 2013 - Costello Associates Inc.		No. Station ID	1 Mt. Forest MS-1	2 Mt. Forest MS-2	3 Mt. Forest MS-3	4 Mt. Forest MS-4	5 Arthur MS-5	8 Arthur MS-6



Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 186 of 219

Section 1: Public	Safety - co				
Area of Concern		nditions tha	t impact pubi	lic safety at the s	station:
		С	heck		
0 1 0 1		1	2 3		
Perimeter Security	0		V	1 = Acc	eptable
Fence Grounding and Station Yard	Bonding		_ V	2 = Son	ne deficiencies
Station Building		4/10			
Station Setting - Prox	mity	NIA		3 = Nee	ds attention sooi
Station Setting - Encre	achments	1		-	
Overall public safety	condition		V		
				-10	
Overall Public	Blue	Purple	Yellow	Orange	Red
					1 year
Safety Risk Rating	20+ Years	11-20 year			
Section 2: Worker		11-20 year			
Section 2: Worker	Safety - co	nditions tha			station:
Section 2: Worker Area of Concern Grounding and Bonding	Safety - co	onditions that	t impact wor	ker safety at the	station:
Section 2: Worker  Area of Concern  Grounding and Bonding Safe limits of approach	Safety - co	onditions that	t impact wor	ker safety at the	station:
Section 2: Worker  Area of Concern  Grounding and Bonding Safe limits of approach Working clearances	Safety - co	onditions that	t impact wor	ker safety at the	station:
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Wellington North Power Inc. OEB File No: EB-2013-0178 4th Generation IRM Adjustment Page 187 of 219

# **Costello Associates**

**Substation Risk Assessment Form** 

# Section 3: Risks of Major Equipment Failure

A. Condition of Equipment

Area of Concern		Check					
	1	2	3				
Power Transformers			1				
High-side switchgear	V						
Distribution-side switchgear			1				
Protection and Control Equipment		V					
Underground cables		V					
Structures	V						
Overall equipment condition			V				

- 1 = Acceptable
- 2 = Some deficiencies
- 3 = Needs attention soon

B. Factors that may impact the consequences of major equipment failure

Concern	Impact of Consequence						
	L	M	Н				
Station setting - proximity	More than 100m	Between 100m and 10m	10m or less				
Station setting - watercourses	None	Storm sewers/drains	Open water				
Lack of backup supply	<2 hours switching	Between 2 - 24h outage	No backup				
Critical loads (hospitals etc)	None	With generators	No generators				
Grounding and bonding	Today's code	Some deficiencies	(Poor)				
Oil containment	Yes	Partial	(None)				
Explosion barriers	Yes	Partial	None				
Fire fighting capability	(Hydrants)	Storage Tanks	None				
Presence of PCB's	None	Storage Only	In-service				
Overall equipment condition	L	(M)	Н				

C. Based on the equipment condition and consequences, state the risk rating for a major equipment failure:

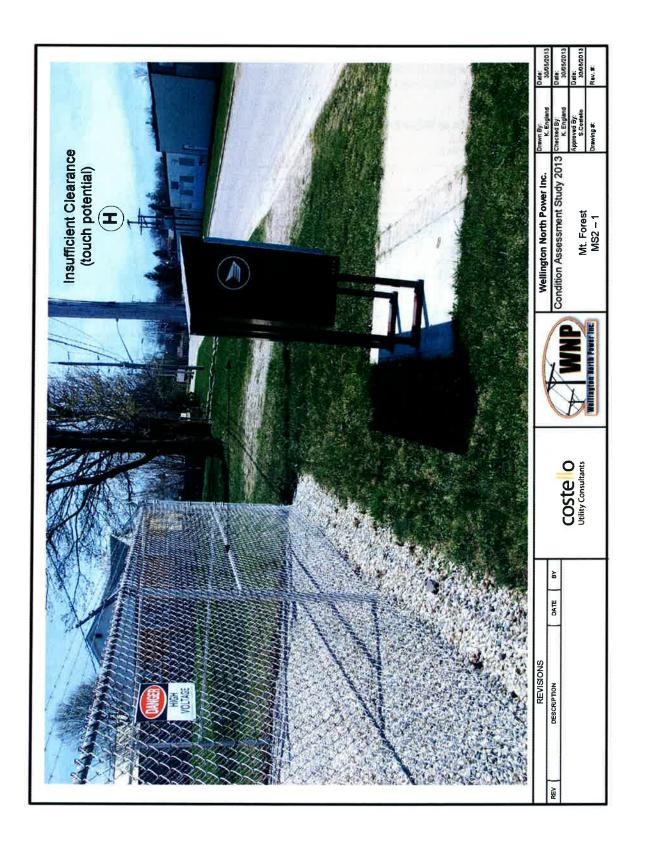
Overall Failure	Blue	Purple	Yellow	Orange	Red
Risk Rating	20+ Years	11-20 years	4-10 years	2-3 years	1 year
			1/		

## Section 4: Overall Substation Risk Assessment

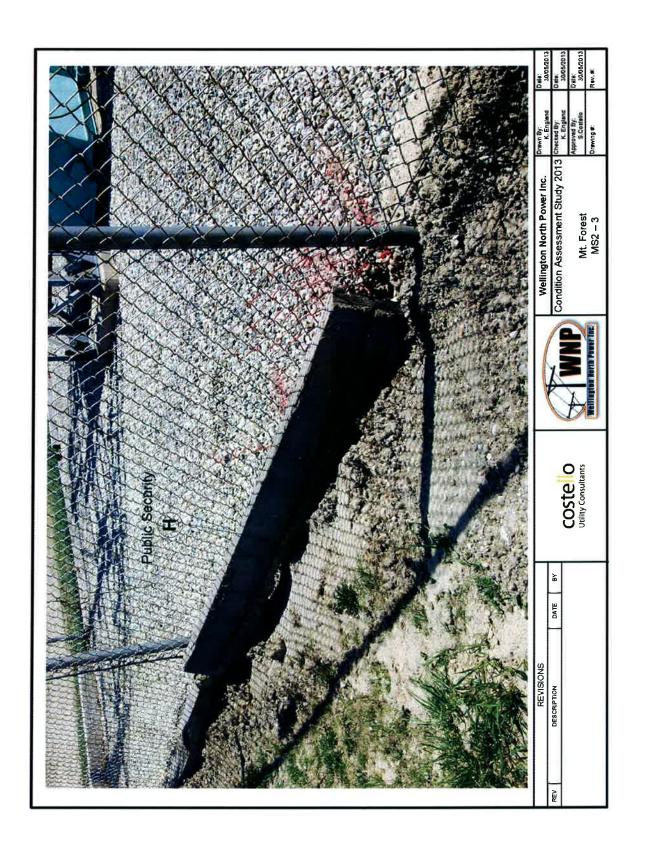
Station Risk	Blue	Purple	Yellow	Orange	Red
Assessment	20+ Years	11-20 years	4-10 years	2-3 years	1 year
					V

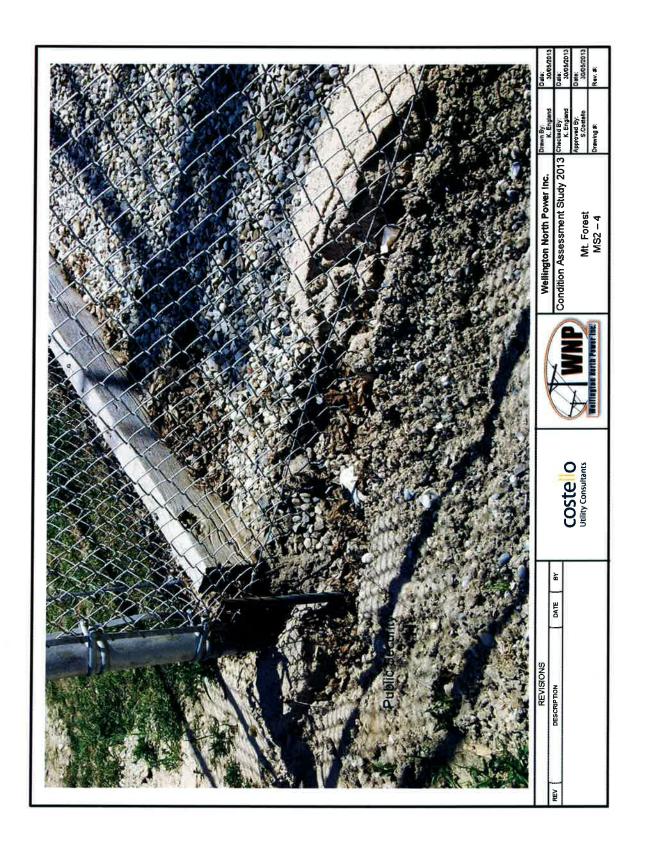
Comments:	Rating	will	improve	e to	yellow	once
Sarety	y issues	are	resolved	and	switchge	ear
de f	iciencies	are	correcte	d		

Inspected by:	Date:	



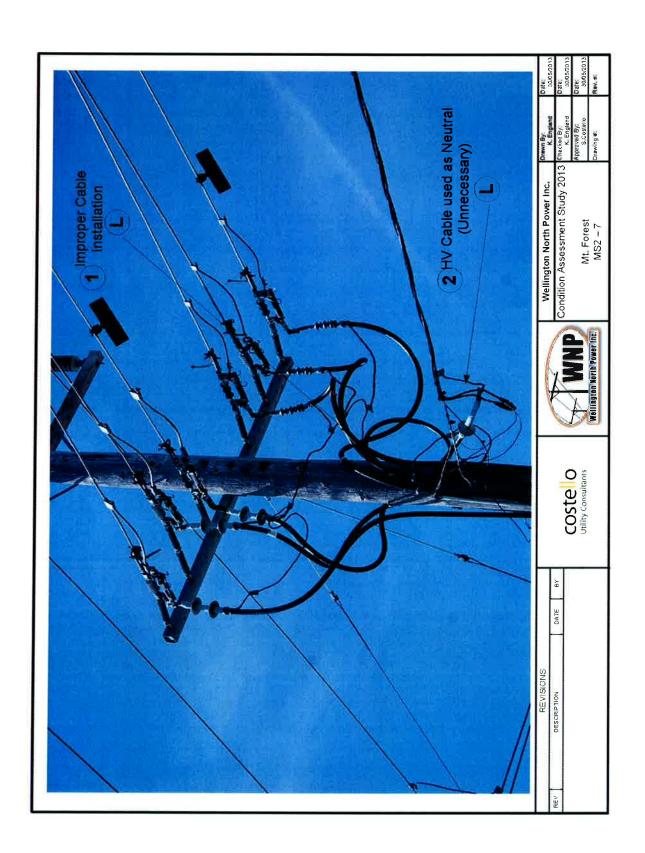


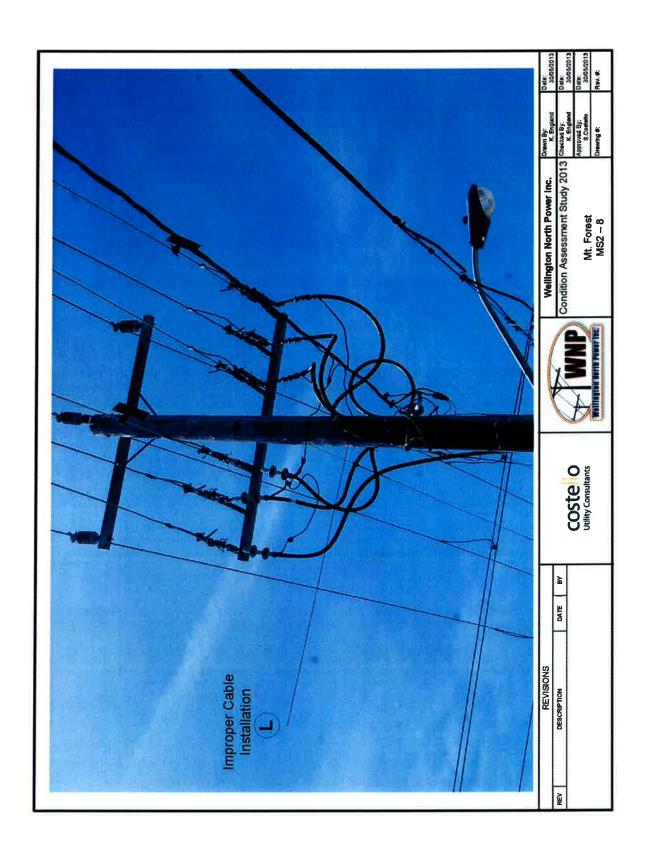


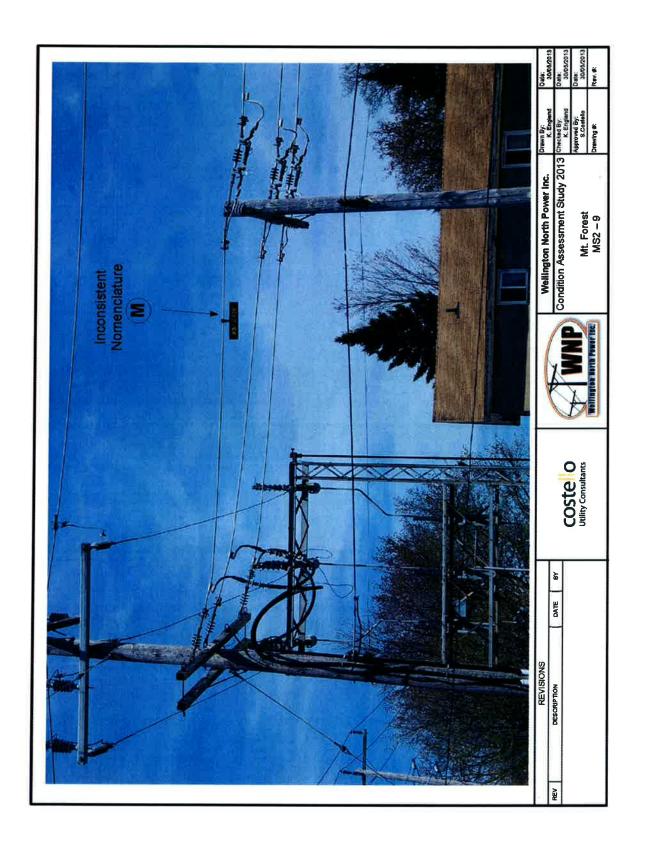


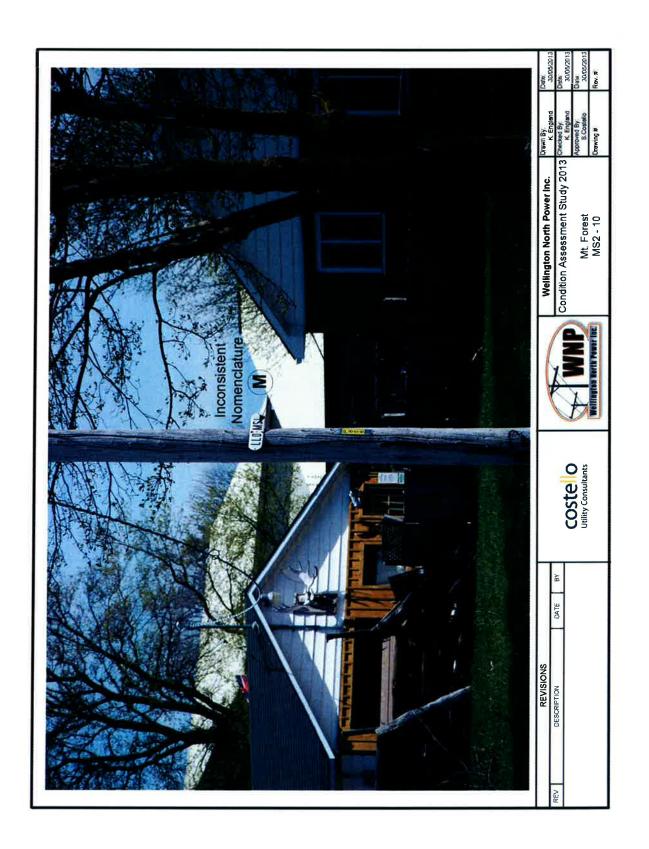


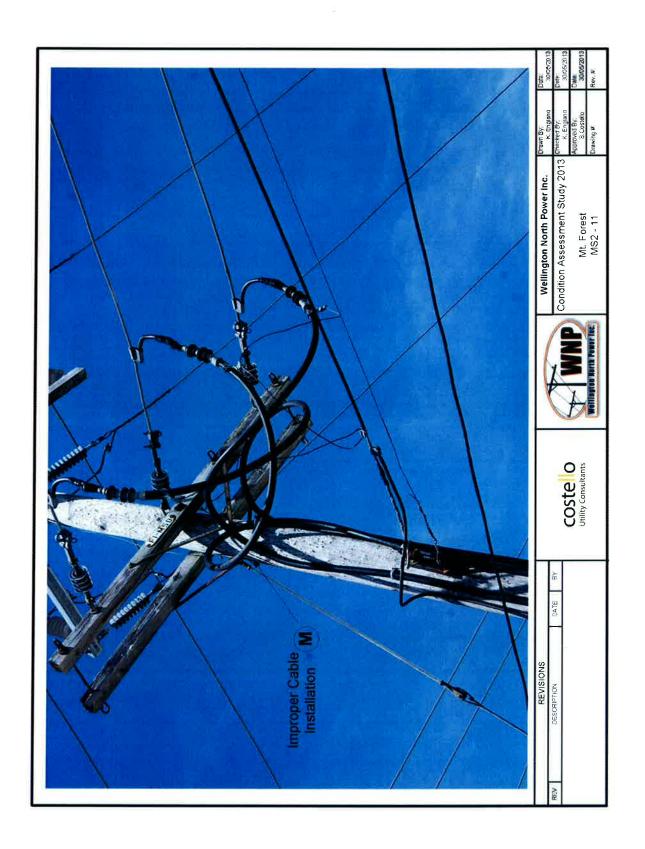


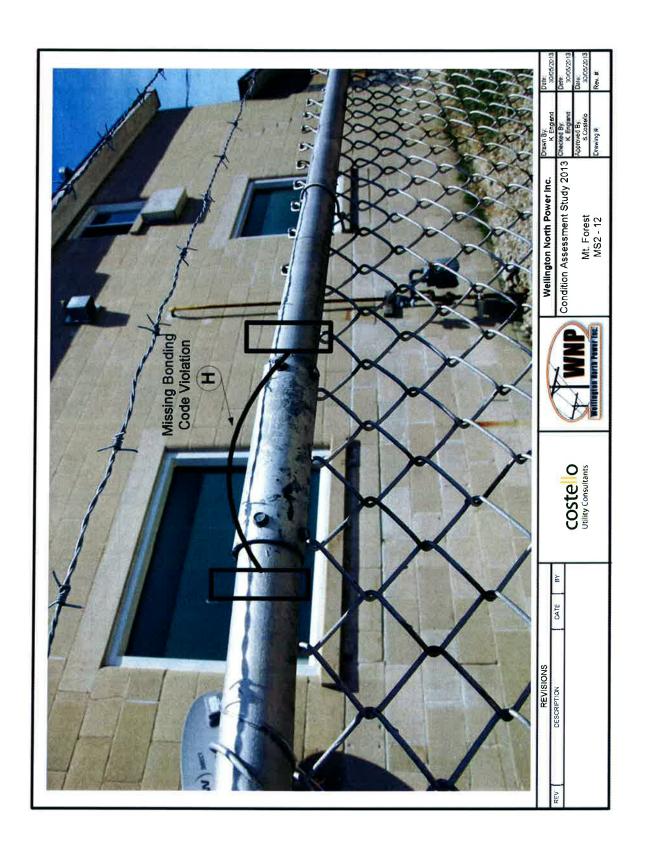


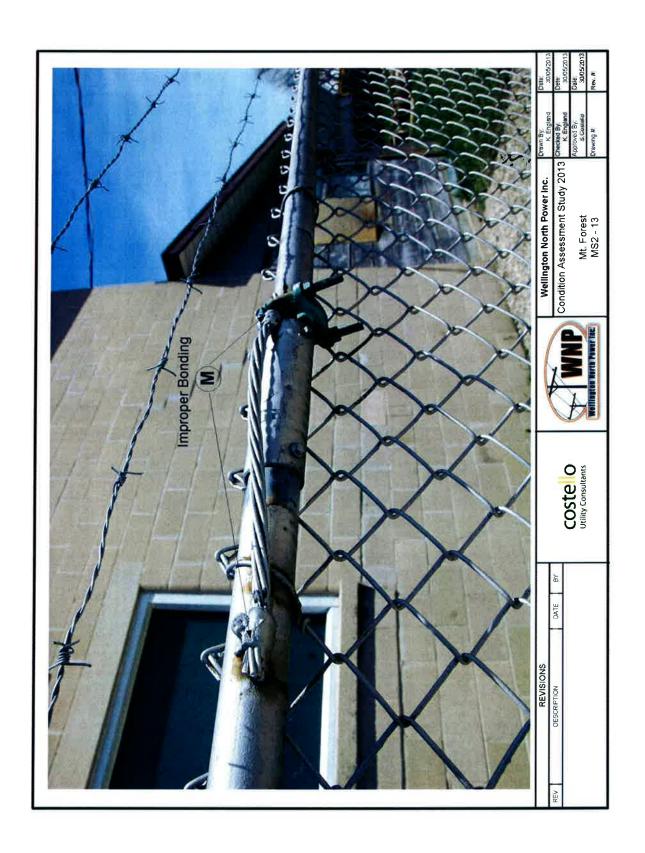


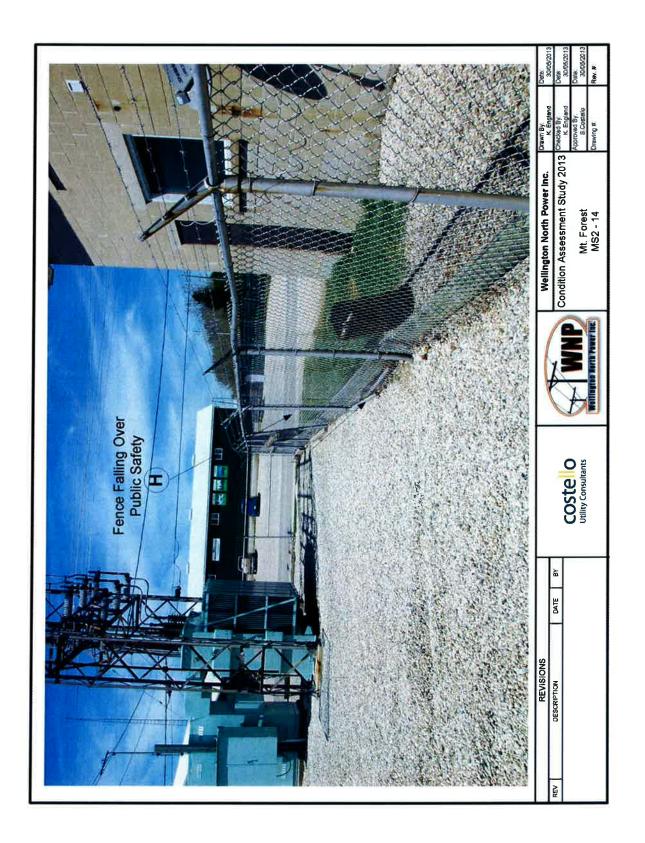




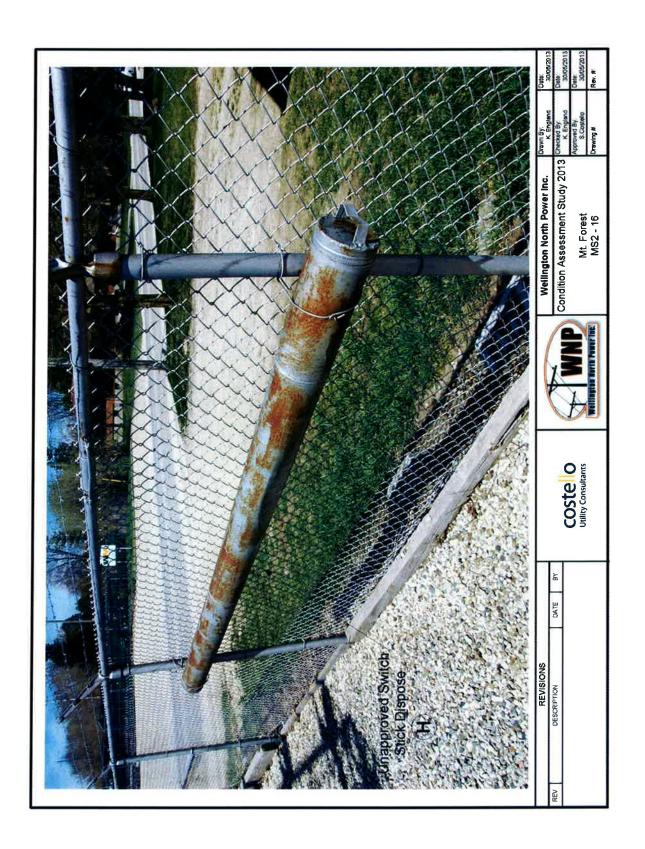


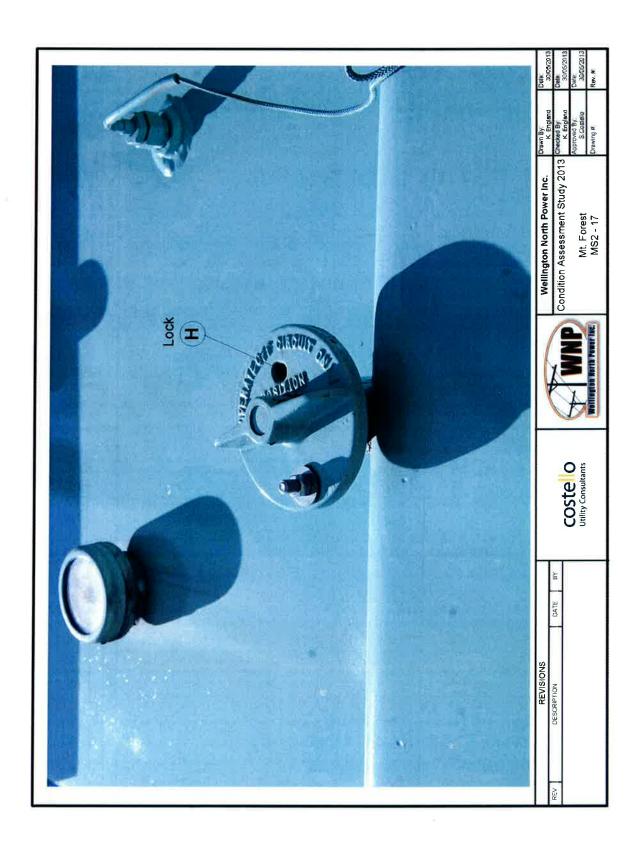




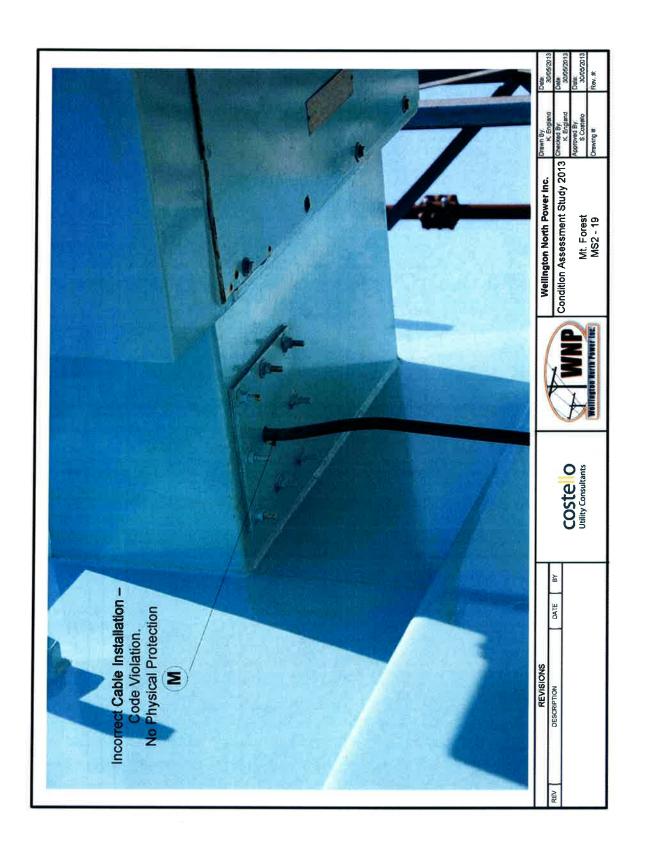


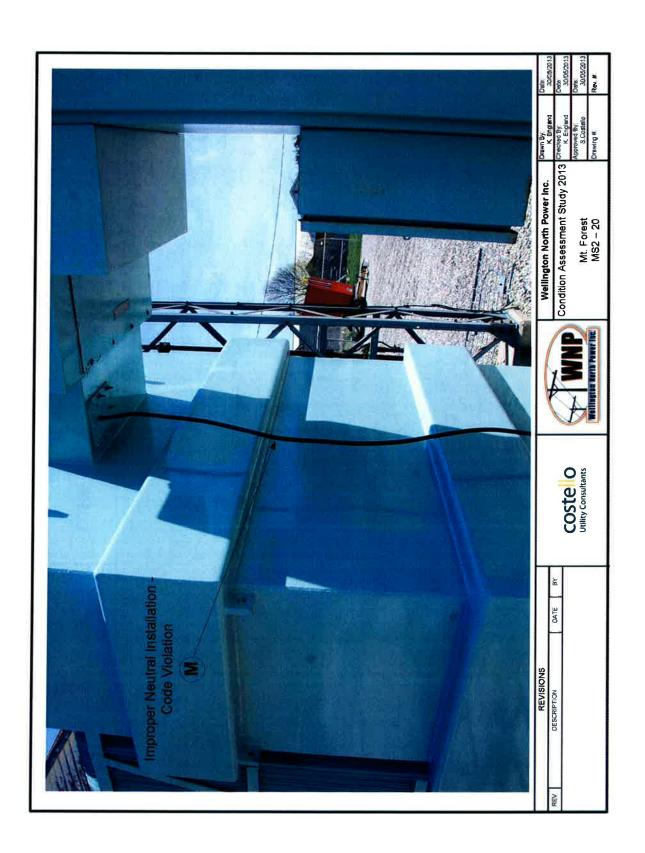


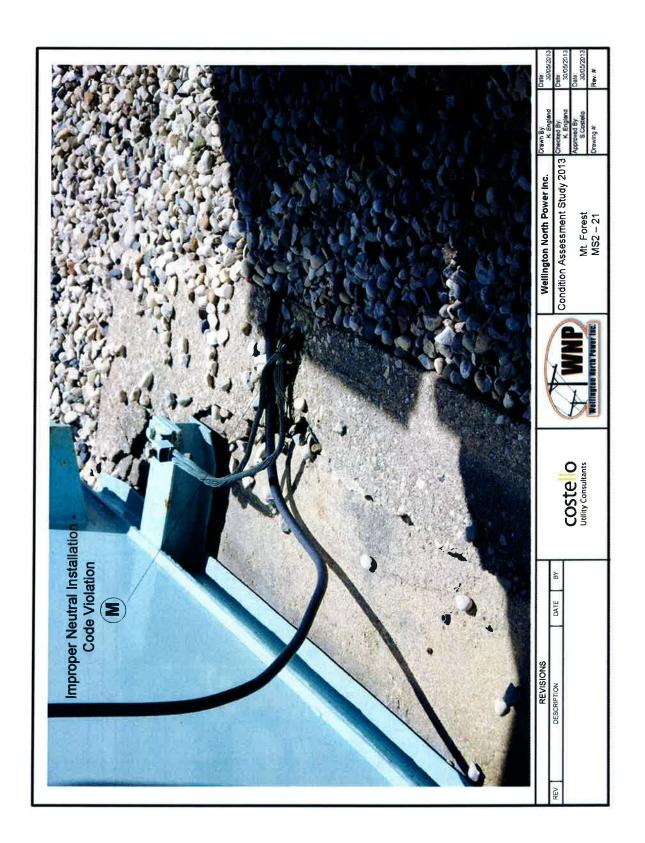


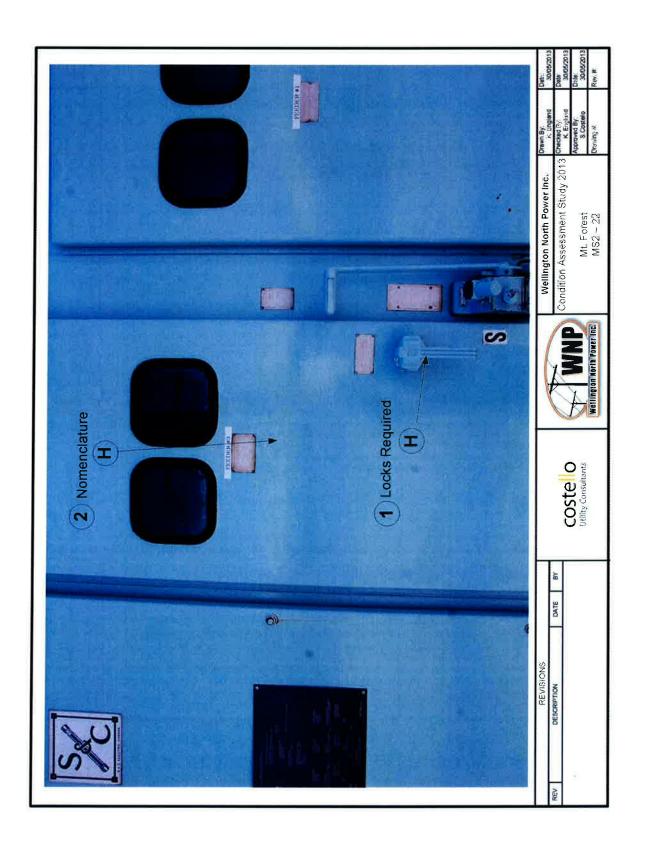


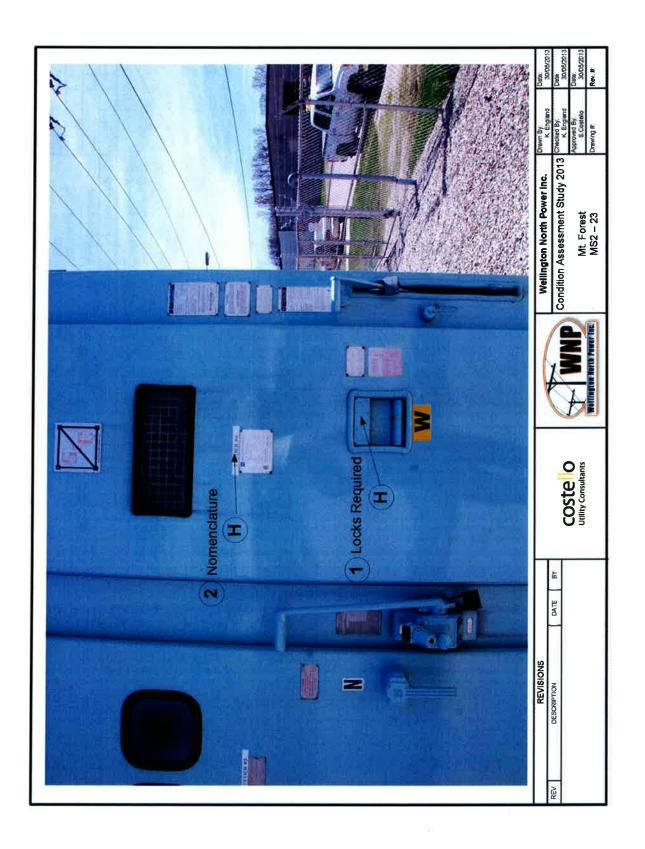




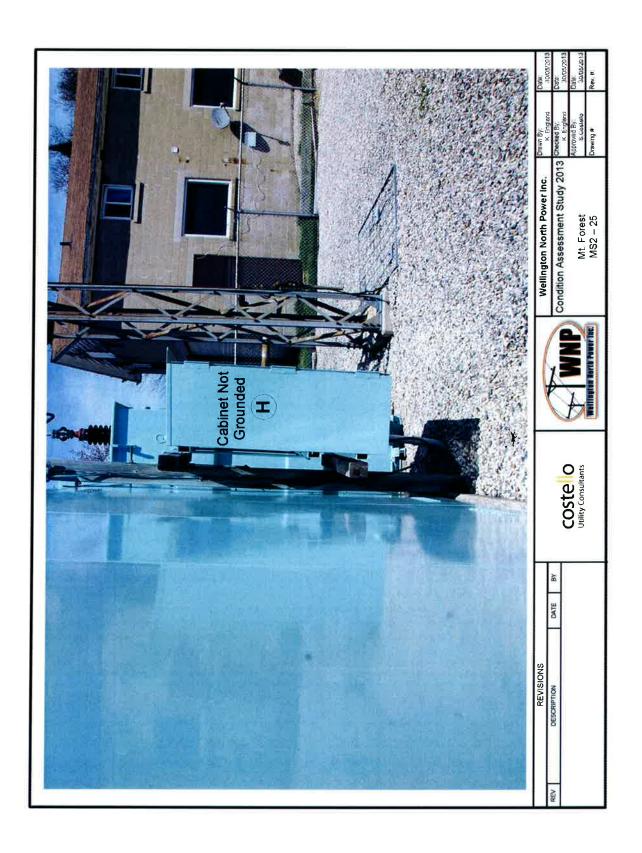


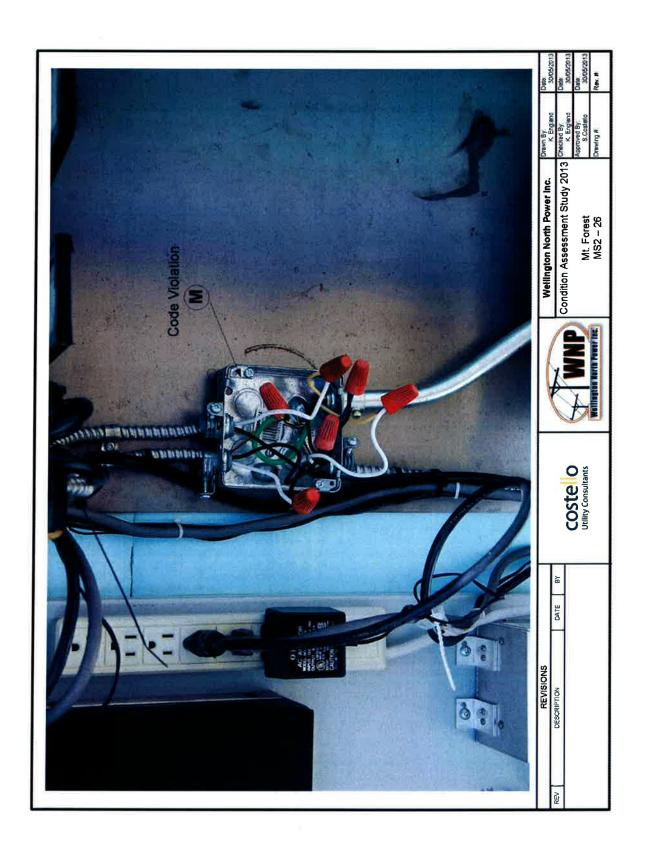


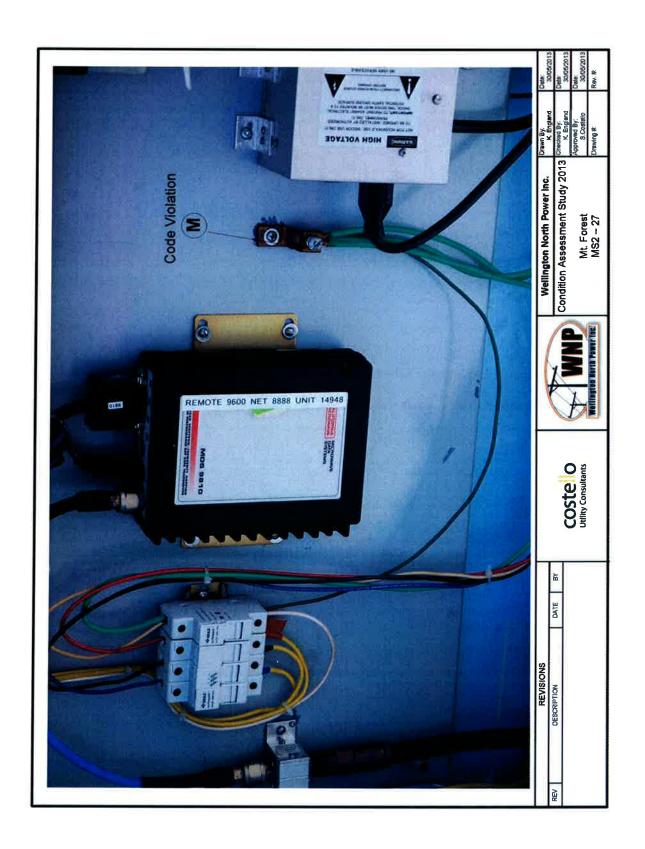


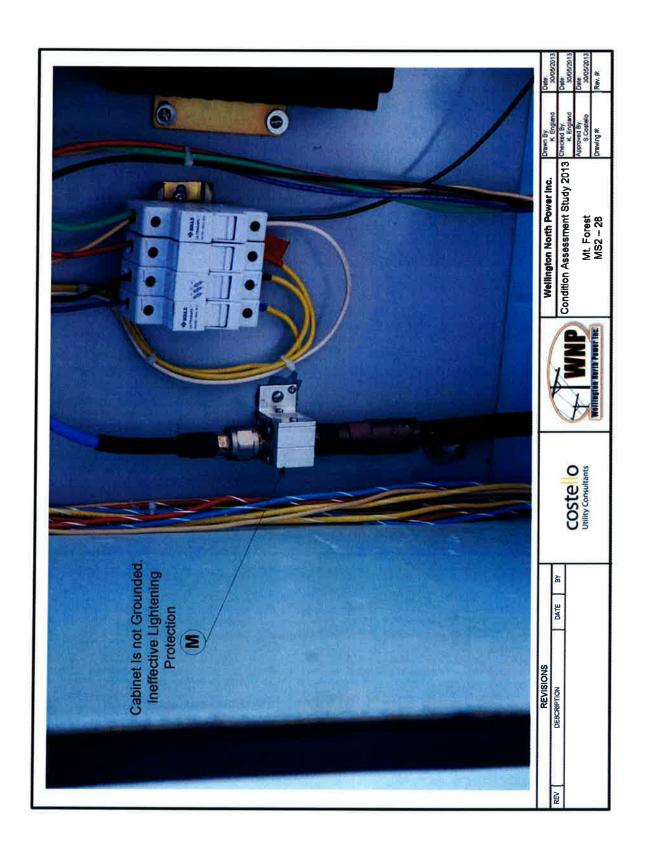


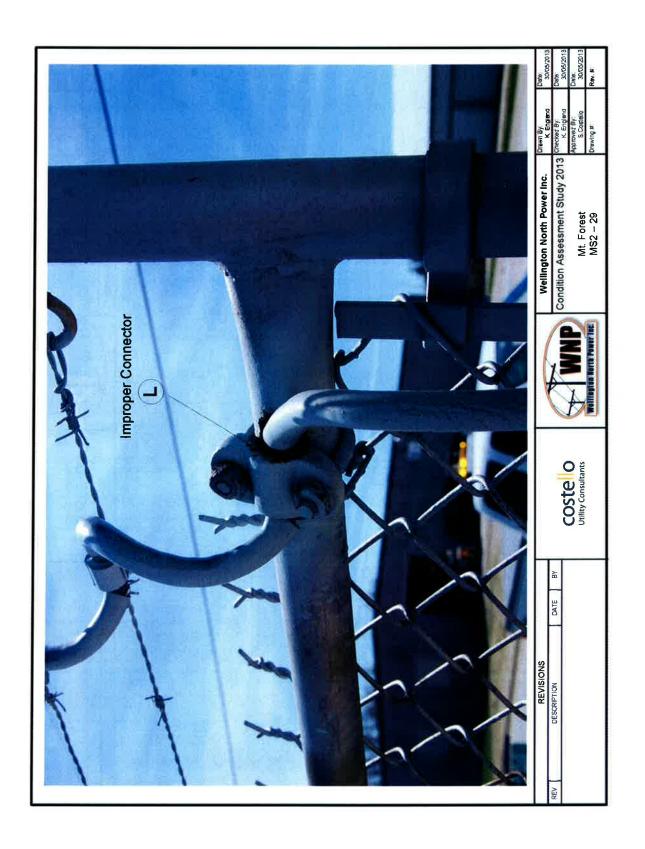


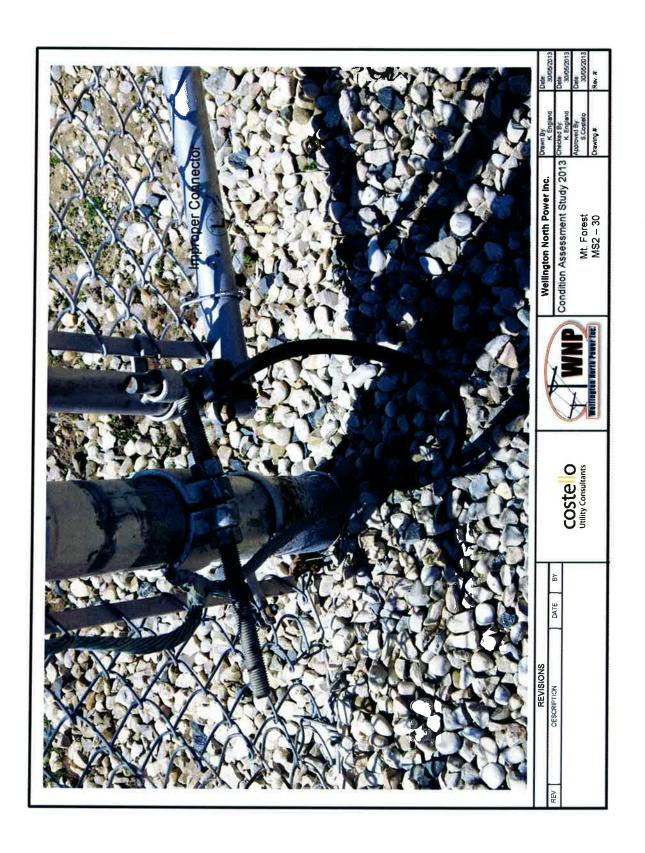


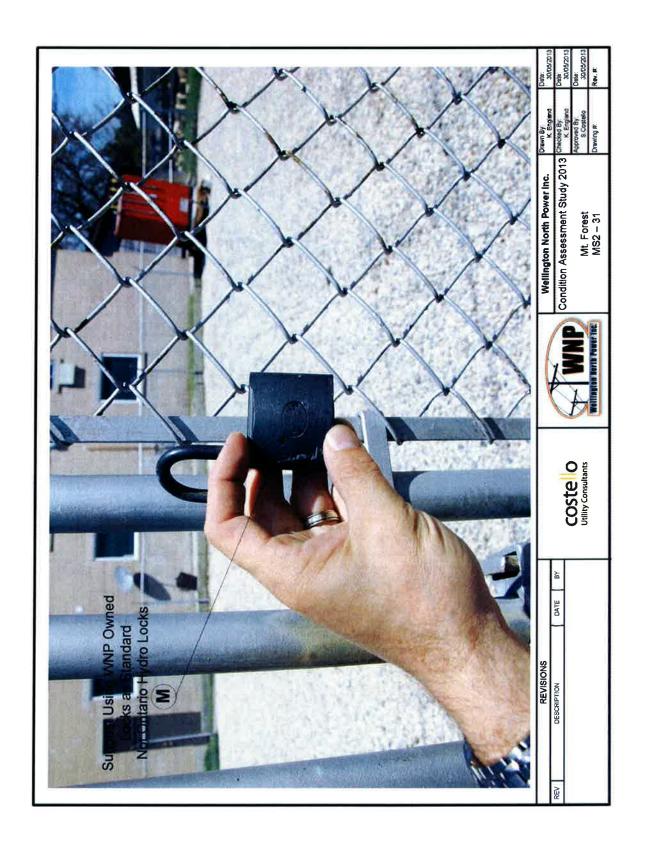














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