



Ms. Kirsten Walli Board Secretary Ontario Energy Board P.O. Box 2319, 27th Floor 2300 Yonge Street Toronto, Ontario M4P 1E4

Dear Kirsten:

Re: Norfolk Power Distribution Inc - Application for 2010 Electricity Distribution Rates EB-2009-0238

Norfolk Power Distribution Inc. ("NPDI") is pleased to submit to the Ontario Energy Board (the "Board") its 2010 electricity distribution rate application. In compliance with the OEB letter dated July 3rd, 2009 NPDI is filing its rate application as a 3rd Generation Incentive Rate (IRM) application which includes the continuation of a directive from a previous Board Decision for a Revenue Cost Ratio Adjustment. This application also includes an application for LRAM/SSM recovery and a Z Factor. NPDI regrets it was not able to file the application for the Z Factor by September 30th, as directed, due to anomalies discovered in its deferral and variance accounts. After consultation with Board Staff at that time, it was thought best to complete the application after the deferral and variance accounts were correctly completed. However, as directed by the Board's letter dated October 15th 2009, NPDI is submitting the application now and will update it as soon as the deferral and variance accounts are completed.

The filing requirements indicate that each application should include:

- A Manager's Summary documenting and explaining all rate adjustments applied for.
- A completed Rate Generator model with supplemental filing modules or work forms, provided by the Board, both in electronic (i.e. Excel) and PDF form.
- A copy of the current Tariff Sheet.
- A PDF copy of the facsimile tariff sheet generated by the Rate Generator.
- A PDF copy of the bill impacts generated by the Rate Generator.

The completed 2010 IRM3 models are attached along with the requested tariff sheet and bill impact information. The Manager's Summary for NPDI's 2010 rate application is attached to this letter. The information that is provided in the IRM3 models will not be repeated in the Manager's Summary in order to focus the Manager's Summary on the relevant items.

NPDI's 2010 electricity distribution rate application will be sent to you in the following form:

- (a) Electronic filing through the Board's web portal at www.errr.oeb.gov.on.ca, consisting of one (1) electronic copy of the application in searchable /unrestricted PDF format and one (1) electronic copy in Microsoft Excel format of the completed IRM3 models and one (1) electronic copy of the Manager's summary;
- (b) Two (2) paper copies of the application, the Manager's Summary and the IRM Model, along with a CD of the above (item (a)).

We would be pleased to provide any further information or details that you may require relative to this application.

Yours truly,

Brad Randall, P.Eng. President and CEO

Norfolk Power Distribution Inc.

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Norfolk Power Distribution Inc.

EB-2009-0238

MANAGER'S SUMMARY

October 21, 2009

Norfolk Power Distribution Inc ("NPDI") is a licensed electricity distributor (ED-2002-0521) that owns and operates electricity distribution systems that provide service to the County of Norfolk. NPDI charges its customers distribution rates and other charges as authorized by the Ontario Energy Board ("Board"). In this application NPDI is applying for rates and other charges effective May 1, 2010.

NPDI has adhered to the Board's directions in completing the Board approved IRM3 rate models and incorporated the necessary adjustment. This Manager's Summary will address the following items:

- Revenue to Coat Ratio Adjustment
- Smart Meter Adder
- Price Cap Adjustment
- K Factor Adjustment
- Deferral and Variance Account Rider
- Retail Transmission Service Rates
- Current and Proposed Rates Appendix A
- Customer Impacts Appendix B
- LRAM/SSM Exhibit 1
- Z Factor Exhibit 2

Revenue to Cost Ratio

In order to implement the next phase of the directive from the Board's Decision for NPDI's 2008 cost of service application in regards to revenue to cost ratios, NPDI proposes the following Revenue to Cost ratios as determined by the Supplemental Model.

	2009	
	Approved	2010 Proposed
	Revenue	Revenue Cost
Rate Class	Cost Ratio	Ratio
Residential	103.4%	103.0%
General Service Less Than 50 kW	101.2%	101.2%
General Service 50 to 4,999 kW	92.4%	92.4%
Unmetered Scattered Load	100.7%	100.7%
Sentinel Lighting	58.5%	70.0%
Street Lighting	62.6%	70.0%

For 2010, NPDI proposed to increase the revenue to cost ratios for Street Lighting and Sentinel Lighting classes to reach the bottom of the Board's target range. As directed in the Board's Decision, the changes were made with an offsetting amount being applied to residential rates.

Smart Meter Adder

For 2010 rates, NPDI proposes to maintain the \$1.00 per meter per month as approved in its current rates.

Price Cap Adjustment

Under the 3rd Generation IRM plan, NPDI's electricity distribution rates for 2010 have been adjusted for three factors: a price escalator, a productivity factor and a

Norfolk Power Distribution Inc EB-2009-0238 Manager's Summary Page 3 of 5

stretch factor. For the purposes of preparing the 2010 application, the Board expects NPDI to use a proxy for the price cap adjustment. The proxy is 1.18%. NPDI understands that when the final price adjustment factor is determined the Board will adjust the price cap adjustment assumed in the 2010 final rates.

K – Factor Adjustment

In the Report of the Board on Cost of Capital and 2nd Generation Incentive Regulation for Ontario's Electricity Distributors, the Board determined that a common deemed capital structure of 40% equity and 60% debt would be used for rate-setting purpose. In 2010, the last year of transition, it is assumed NPDI's deemed capital structure will move from 43.3% equity and 56.7% debt to 40% equity and 60% debt. An adjustment factor of -0.35% is applied to the 2009 rates to address the change in deemed capital structure.

Deferral and Variance Account Rider

While completing the Deferral and Variance Account Workform, NPDI became aware of a number of inconsistencies in its record keeping regarding these amounts. A recent change in management has further exacerbated attempts to account for these inconsistencies. In order to rectify the situation NPDI has engaged Ian McKenzie Business Services Inc to reconstruct the deferral and variance account balances from January 1st 2005 to December 31st 2008. In the meantime NPDI has submitted the workform with this application but has not applied the rate riders calculated in the worksheet to the IRM3 Rate Generator Model as these amounts are expected to change. NPDI will update this application with the corrected workform as soon as possible. NPDI also wishes to note that on October 13th the Board's Regulatory Audit and Accounting Group notified NPDI that they will be conducting an audit review of its deferral and

Norfolk Power Distribution Inc EB-2009-0238 Manager's Summary Page 4 of 5

variance accounts. Any changes that arise as a result of this audit will also be incorporated in an updated application and submitted to the Board.

Retail Transmission Rates

The Board's Revision to Guideline G-2008-0001 - Electricity Distribution Retail Transmission Service Rates ("RTSR's) were issued July 22, 2009. Based on the Decision and Rate Order of the Board (EB-2008-072), new Uniform Transmission Rates (UTR's) are effective July 1, 2009. The Guideline instructs distributors to adjust RTSR's in the same manner as the UTR's have been changed. An increase of 3.5% has been applied to the 2009 Network Service Rate and a decrease of 2.2% has been applied to the 2008 Line Transformation Connection Service Rate.

LRAM / SSM Recovery

NPDI has applied for implementation of an LRAM/SSM rate rider to recover amounts totaling \$210,957, including carrying charges of \$9,600. NPDI requests to recover the amounts by a volumetric rate rider over the period of one year beginning May 1 2010. The full LRAM/SSM application is submitted as Exhibit 1. The rate riders have been included in the Rate Generator Model and have been included in the attached customer impact analysis provided in Appendix A of this summary.

Z Factor

As part of this application NPDI has applied for the recovery of amounts recorded in Account 1572 related to severe storm damage which occurred in January 2007. NPDI requests the amounts be recovered by a volumetric rate rider over the period of one year, beginning May 1 2010. The rate riders have been included in the Rate Generator Model and have been included in the attached

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customer impact analysis provided in Appendix A of this summary. The full Z Factor application is submitted as Exhibit 2.

Conclusion

A copy of the current tariff sheet, the proposed tariff sheet and the customer impacts are provided in Appendix A. In summary, the bill impact for a Residential customer in Norfolk County, with a monthly electricity consumption of 800 kWh, will be 1.9% or \$2.11 per month after GST. The bill impact for a General Service Less Than 50 kW customer with a monthly electricity consumption of 2,000 kWh, will be 1.0% or \$2.80 per month after GST.

Norfolk Power Distribution Inc. CURRENT TARIFF OF RATES AND CHARGES

CURRENT MONTHLY RATES AND CHARGES

Re	12	Δ	n	113	a

Service Charge	\$	22.02
Service Charge Tax Change Rate Rider – effective until April 30, 2010	\$	(0.02000)
Distribution Volumetric Rate	\$/kWh	0.0199
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0049
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0049
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

General Service Less Than 50 kW

Service Charge	\$	50.74
Service Charge Tax Change Rate Rider – effective until April 30, 2010	\$	(0.04000)
Distribution Volumetric Rate	\$/kWh	0.0146
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0045
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

General Service 50 to 4,999 kW

Service Charge	\$	245.37
Service Charge Tax Change Rate Rider – effective until April 30, 2010	\$	(0.21000)
Distribution Volumetric Rate	\$/kW	3.9228
Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2010	\$/kW	(0.00340)
Retail Transmission Rate – Network Service Rate	\$/kW	1.8322
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.7109
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Street Lighting

Service Charge (per connection)	\$	1.85
Distribution Volumetric Rate	\$/kW	6.4893
Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2010	\$/kW	(0.00500)
Retail Transmission Rate – Network Service Rate	\$/kW	1.3819
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3227
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Sentinel Lighting

Service Charge (per connection)	\$	6.15
Distribution Volumetric Rate	\$/kW	15.4239
Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2010	\$/kW	(0.01090)
Retail Transmission Rate – Network Service Rate	\$/kW	1.3888
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3503
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Unmetered Scattered Load

Service Charge (per connection)	\$	26.55
Service Charge Tax Change Rate Rider – effective until April 30, 2010	\$	(0.02000)
Distribution Volumetric Rate	\$/kWh	0.0156
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0045
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

EB-2009-0238 Manager's Summary Appendix A

1.0560

0.00 1.0454 0.00

CURRENT SPECIFIC SERVICE CHARGES		
Customer Administration		
Arrears certificate	\$	15.00
Statement of account	\$	15.00
Pulling post dated cheques	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Request for other billing information	\$	15.00
Easement letter	\$ \$	15.00 15.00
Income tax letter Notification charge	\$	15.00
Account history	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque charge (plus bank charges)	\$	15.00
Charge to certify cheque	\$	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	\$	30.00
Collection of account charge - no disconnection - after regular hours	\$	165.00
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
Other		
Install/Remove load control device - during regular hours	\$	65.00
Install/Remove load control device - after regular hours	\$	185.00
Service call - customer-owned equipment	\$	30.00
Service call - after regular hours	\$ \$	165.00
Specific Charge for Access to the Power Poles \$/pole/year	\$	22.35
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)
, , ,	\$/kW	, ,
Current Retail Service Charges (if applicable)		
Retail Service Charges (if applicable)		
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)	_	0.25
Request fee, per request, applied to the requesting party	\$ \$	0.25
Processing fee, per request, applied to the requesting party Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail	>	0.50
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
	Ť	2.00
LOSS FACTORS		

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

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

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

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

Norfolk Power Distribution Inc. TARIFF OF RATES AND CHARGES Effective May 1, 2010

MONTHLY RATES AND CHARGES

EB-2009-0238

Applied For Monthly Rates and Charges General

Resi		

Residential		
Service Charge Service Charge Smart Meter Funding Adder Distribution Volumetric Rate Low Voltage Volumetric Rate Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Lost Revenue Adjustment Mechanism (LRAM) Recovery/Shared Savings Mechanism (SSM) Recovery Rate Rider – effective until April 30, 2011 Distribution Volumetric Z-Factor Request – effective until April 30, 2011 Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service – Administrative Charge (if applicable) General Service Less Than 50 kW	\$ \$ \$/kWh	20.94 1.00 0.0199 0.0007 (0.00020) 0.00120 0.0008 0.0051 0.0048 0.0052 0.0013 0.25
General Service Less Than Service		
Service Charge Service Charge Smart Meter Funding Adder Distribution Volumetric Rate Low Voltage Volumetric Rate Low Voltage Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Lost Revenue Adjustment Mechanism (LRAM) Recovery/Shared Savings Mechanism (SSM) Recovery Rate Rider – effective until April 30, 2011 Distribution Volumetric Z-Factor Request – effective until April 30, 2011 Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service – Administrative Charge (if applicable)	\$ \$/kWh	50.15 1.00 0.0146 0.0006 (0.00020) 0.0000 0.0005 0.0047 0.0042 0.0052 0.0013 0.25
General Service 50 to 4,999 kW		
Service Charge Service Charge Smart Meter Funding Adder Distribution Volumetric Rate Low Voltage Volumetric Rate Low Voltage Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Lost Revenue Adjustment Mechanism (LRAM) Recovery/Shared Savings Mechanism (SSM) Recovery Rate Rider – effective until April 30, 2011 Distribution Volumetric Z-Factor Request – effective until April 30, 2011 Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service – Administrative Charge (if applicable)	\$ \$/kW \$/kW \$/kW \$/kW \$/kW \$/kWh \$/kWh \$/kWh	246.39 1.00 3.9236 0.2622 (0.02440) 0.10510 0.0891 1.8963 1.6733 0.0052 0.0013
Street Lighting Service Charge (per connection) Distribution Volumetric Rate Low Voltage Volumetric Rate Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Z-Factor Request – effective until April 30, 2011 Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service – Administrative Charge (if applicable)	\$ \$/kW \$/kW \$/kW \$/kW \$/kW \$/kW \$/kW \$/k	1.87 7.3081 0.1999 (0.07340) 0.2453 1.4303 1.2936 0.0052 0.0013 0.25
Sentinel Lighting		
Service Charge (per connection) Distribution Volumetric Rate Low Voltage Volumetric Rate Distribution Volumetric Rate Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Z-Factor Request – effective until April 30, 2011 Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service – Administrative Charge (if applicable)	\$ \$/kW \$/kW \$/kW \$/kW \$/kW \$/kWh \$/kWh \$	6.20 18.7510 0.2024 (0.58320) 0.8049 1.4374 1.3206 0.0052 0.0013 0.25
Unmetered Scattered Load		
Service Charge (per connection) Distribution Volumetric Rate Low Voltage Volumetric Rate Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Distribution Volumetric Tax Change Rate Rider – effective until April 30, 2011 Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Standard Supply Service – Administrative Charge (if applicable)	S S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh	26.77 0.0156 0.0006 (0.00030) 0.0010 0.0047 0.0042 0.0052 0.0013 0.25

EB-2009-0238 Manager's Summary Appendix A

Specific Service Charges		
Customer Administration		
Arrears certificate	\$	15.00
Statement of account	\$	15.00
Pulling post dated cheques	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Request for other billing information	\$	15.00
Easement letter	\$	15.00
Income tax letter	\$	15.00
Notification charge	\$	15.00
Account history	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque charge (plus bank charges)	\$	15.00
Charge to certify cheque	\$	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	\$	30.00
Collection of account charge - no disconnection - after regular hours	\$	165.00
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
Other		
Install/Remove load control device - during regular hours	\$	65.00
Install/Remove load control device - after regular hours	\$	185.00
Service call - customer-owned equipment	\$	30.00
Service call - after regular hours	\$	165.00
Specific Charge for Access to the Power Poles \$/pole/year	\$	22.35
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)
Filliary Metering Allowance for transformer losses - applied to measured demand and energy	/0	(1.00)
Retail Service Charges (if applicable)		
Retail Service Charges (if applicable)		
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	\$	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		
Total Loss Factor - Secondary Metered Customer < 5,000 kW		1.0560
Total Loss Factor - Secondary Metered Customer > 5,000 kW		0.00
Total Loss Factor - Primary Metered Customer < 5,000 kW		1.0454
Total Loss Factor - Primary Metered Customer > 5,000 kW		0.00

Name of LDC: Norfolk Power Distribution Inc. EB-2009-0238

File Number: May 1, 2010 Effective Date:

Residential

Monthly Rates and Charges	Metric	Current Rate	Applied For Rate
Service Charge	\$	22.02	20.94
Service Charge Rate Adder(s)	\$	-	1.00
Service Charge Rate Rider(s)	\$	- 0.02	
Distribution Volumetric Rate	\$/kWh	0.0199	0.0199
Distribution Volumetric Rate Adder(s)	\$/kWh	-	
Low Voltage Volumetric Rate	\$/kWh	-	0.0007
Distribution Volumetric Rate Rider(s)	\$/kWh	-	0.0018
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0049	0.0051
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0049	0.0048
Retail Transmission Rate – Low Voltage Service Rate	\$/kWh	-	-
Wholesale Market Service Rate	\$/kWh	0.0052	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013	0.0013
Standard Supply Service – Administration Charge (if applicable)	\$/kWh	0.25	0.25

Consumption	800	kWh	- kW
RPP Tier One	600	kWh	Load Factor

Loss Factor 1.0560

Residential	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	600	0.0570	34.20	600	0.0570	34.20	0.00	0.0%	29.63%
Energy Second Tier (kWh)	245	0.0660	16.17	245	0.0660	16.17	0.00	0.0%	14.01%
Sub-Total: Energy			50.37			50.37	0.00	0.0%	43.63%
Service Charge	1	22.02	22.02	1	20.94	20.94	-1.08	(4.9)%	18.14%
Service Charge Rate Adder(s)	1	0.00	0.00	1	1.00	1.00	1.00	0.0%	0.87%
Distribution Volumetric Rate	800	0.0199	15.92	800	0.0199	15.92	0.00	0.0%	13.79%
Distribution Volumetric Rate Adder(s)	800	0.0000	0.00	800	0.0000	0.00	0.00	0.0%	0.00%
Low Voltage Volumetric Rate	800	0.0000	0.00	800	0.0007	0.56	0.56	0.0%	0.49%
Distribution Volumetric Rate Rider(s)	800	0.0000	0.00	800	0.0018	1.44	1.44	0.0%	1.25%
Total: Distribution			37.92			39.86	1.94	5.1%	34.53%
Retail Transmission Rate – Network Service Rate	845	0.0049	4.14	845	0.0051	4.31	0.17	4.1%	3.73%
Retail Transmission Rate – Line and Transformation Connection Service Rate	845	0.0049	4.14	845	0.0048	4.06	-0.08	(1.9)%	3.52%
Retail Transmission Rate – Low Voltage Volumetric Rate	845	0.0000	0.00	845	0.0000	0.00	0.00	0.0%	0.00%
Total: Retail Transmission			8.28			8.37	0.09	1.1%	7.25%
Sub-Total: Delivery (Distribution and Retail Transmission)			46.20			48.23	2.03	4.4%	41.78%
Wholesale Market Service Rate	845	0.0052	4.39	845	0.0052	4.39	0.00	0.0%	3.80%
Rural Rate Protection Charge	845	0.0013	1.10	845	0.0013	1.10	0.00	0.0%	0.95%
Standard Supply Service – Administration Charge (if applicable)	1	0.25	0.25	1	0.25	0.25	0.00	0.0%	0.22%
Sub-Total: Regulatory			5.74			5.74	0.00	0.0%	4.97%
Debt Retirement Charge (DRC)	800	0.00700	5.60	800	0.00700	5.60	0.00	0.0%	4.85%
Total Bill before Taxes			107.91			109.94	2.03	1.9%	95.24%
GST	107.91	5%	5.40	109.94	5%	5.50	0.10	1.9%	4.76%
Total Bill			113.31		-	115.44	2.13	1.9%	100.00%

Manager's Summary Appendix B Customer Impact

Residential										
	kWh	250		600	800			1,400	2,2	50
Loss Factor A		264		634	845			1,479	2,3	
	. kW									
	Load Factor									
Energy										
Lifeigy	Applied For Bill	\$ 15.)5 \$	36.44	\$	50.37	\$	92.21	\$ 1	51.42
	Current Bill				\$	50.37	\$	92.21		51.42
	\$ Impact			-	\$	-	\$	-	\$	-
	% Impact		0%	0.0%		0.0%		0.0%		0.0%
	% of Total Bill	29.	3%	40.1%		43.6%		48.9%		51.8%
Distribution										
	Applied For Bill	\$ 27.	52 \$	35.36	\$	39.84	\$	53.26	\$:	72.27
	Current Bill	\$ 26.	97 \$	33.94	\$	37.92	\$	49.86	\$ (6.77
	\$ Impact _		_		\$	1.92	\$	3.40	\$	5.50
	% Impact		0%	4.2%		5.1%		6.8%		8.2%
	% of Total Bill	53.	0%	38.9%		34.5%		28.2%		24.7%
Retail Transmission										
	Applied For Bill	\$ 2.	52 \$	6.27	\$	8.37	\$	14.64	\$:	23.52
	Current Bill				\$	8.28	\$	14.50		23.28
	\$ Impact _		_		\$	0.09	\$	0.14	\$	0.24
	% Impact % of Total Bill		5% 1%	0.8% 6.9%		1.1% 7.3%		1.0% 7.8%		1.0% 8.0%
	70 OF TOTAL DIII	٥.	1/0	0.570		7.370		7.070		0.070
Delivery (Distribution and Retail Transmission)										
	Applied For Bill					48.21		67.90		95.79
	Current Bill				\$	46.20	\$	64.36		0.05
	\$ Impact		59 Ş 0%	3.7%	\$	2.01 4.4%	\$	3.54 5.5%	\$	5.74 6.4%
	% of Total Bill	58.		45.8%		41.8%		36.0%		32.7%
Regulatory										
	Applied For Bill					5.74	\$	9.86		15.70
	Current Bill 5		96 \$		\$	5.74	\$	9.86	\$:	15.70
	% Impact		0%	0.0%		0.0%	ې	0.0%	ş	0.0%
	% of Total Bill		3%	4.8%		5.0%		5.2%		5.4%
Debt Retirement Charge	Applicate St.	ć .				F 60	4	0.00		F 75
	Applied For Bill S				\$	5.60 5.60	\$	9.80 9.80		L5.75 L5.75
	\$ Impact		5 5		\$	-	\$	-	\$	-
	% Impact)%	0.0%	•	0.0%		0.0%	-	0.0%
	% of Total Bill	3.	4%	4.6%		4.9%		5.2%		5.4%
0.07										
GST	Applied For Bill	ė a	15 \$	\$ 4.33	\$	5.50	\$	8.99	\$:	13.93
	Current Bill				\$	5.40	\$	8.81		13.65
	\$ Impact				\$	0.10	\$	0.18	\$	0.28
	% Impact		2%	1.6%		1.9%		2.0%		2.1%
	% of Total Bill	4.	3%	4.8%		4.8%		4.8%		4.8%
Total Bill										
I VI AI DIII	Applied For Bill	\$ 51.	35 \$	90.97	\$	115.42	\$	188.76	\$ 29	92.59
	Current Bill				\$	113.42	\$	185.04		36.57
	\$ Impact				\$	2.11	\$	3.72	\$	6.02
	% Impact	1.	2%	1.7%		1.9%		2.0%		2.1%

Name of LDC: Norfolk Power Distribution Inc. EB-2009-0238

File Number: Effective Date: May 1, 2010

General Service Less Than 50 kW

Monthly Rates and Charges	Metric	Current Rate	Applied For Rate
Service Charge	\$	50.74	50.15
Service Charge Rate Adder(s)	\$	-	1.00
Service Charge Rate Rider(s)	\$	- 0.04	
Distribution Volumetric Rate	\$/kWh	0.0146	0.0146
Distribution Volumetric Rate Adder(s)	\$/kWh	-	
Low Voltage Volumetric Rate	\$/kWh	-	0.0006
Distribution Volumetric Rate Rider(s)	\$/kWh	-	0.0004
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0045	0.0047
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043	0.0042
Retail Transmission Rate – Low Voltage Service Rate	\$/kWh	-	-
Wholesale Market Service Rate	\$/kWh	0.0052	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013	0.0013
Standard Supply Service – Administration Charge (if applicable)	\$/kWh	0.25	0.25

Consumption	2,000	kWh	-	kW
RPP Tier One	750	kWh	Load Factor	

Loss Factor 1.0560

General Service Less Than 50 kW	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	0.0570	42.75	750	0.0570	42.75	0.00	0.0%	15.55%
Energy Second Tier (kWh)	1,362	0.0660	89.89	1,362	0.0660	89.89	0.00	0.0%	32.70%
Sub-Total: Energy			132.64			132.64	0.00	0.0%	48.26%
Service Charge	1	50.74	50.74	1	50.15	50.15	-0.59	(1.2)%	18.25%
Service Charge Rate Adder(s)	1	0.00	0.00	1	1.00	1.00	1.00	0.0%	0.36%
Distribution Volumetric Rate	2,000	0.0146	29.20	2,000	0.0146	29.20	0.00	0.0%	10.62%
Distribution Volumetric Rate Adder(s)	2,000	0.0000	0.00	2,000	0.0000	0.00	0.00	0.0%	0.00%
Low Voltage Volumetric Rate	2,000	0.0000	0.00	2,000	0.0006	1.20	1.20	0.0%	0.44%
Distribution Volumetric Rate Rider(s)	2,000	0.0000	0.00	2,000	0.0004	0.80	0.80	0.0%	0.29%
Total: Distribution			79.90			82.35	2.45	3.1%	29.96%
Retail Transmission Rate – Network Service Rate	2,112	0.0045	9.50	2,112	0.0047	9.93	0.43	4.5%	3.61%
Retail Transmission Rate – Line and Transformation Connection Service Rate	2,112	0.0043	9.08	2,112	0.0042	8.87	-0.21	(2.3)%	3.23%
Retail Transmission Rate – Low Voltage Volumetric Rate	2,112	0.0000	0.00	2,112	0.0000	0.00	0.00	0.0%	0.00%
Total: Retail Transmission			18.58			18.80	0.22	1.2%	6.84%
Sub-Total: Delivery (Distribution and Retail Transmission)			98.48			101.15	2.67	2.7%	36.80%
Wholesale Market Service Rate	2,112	0.0052	10.98	2,112	0.0052	10.98	0.00	0.0%	3.99%
Rural Rate Protection Charge	2,112	0.0013	2.75	2,112	0.0013	2.75	0.00	0.0%	1.00%
Standard Supply Service – Administration Charge (if applicable)	1	0.25	0.25	1	0.25	0.25	0.00	0.0%	0.09%
Sub-Total: Regulatory			13.98			13.98	0.00	0.0%	5.09%
Debt Retirement Charge (DRC)	2,000	0.00700	14.00	2,000	0.00700	14.00	0.00	0.0%	5.09%
Total Bill before Taxes			259.10			261.77	2.67	1.0%	95.24%
GST	259.10	5%	12.96	261.77	5%	13.09	0.13	1.0%	4.76%
Total Bill			272.06			274.86	2.80	1.0%	100.00%

Manager's Summary Appendix B Customer Impact

General Service Less Than 50 kW								
	kWh	1,000		2,000	7,500	15,000	:	20,000
Loss Factor A	Adjusted kWh	1,056		2,112	7,920	15,840	- 2	21,120
	kW							
	Load Factor							
Energy								
Ellergy	Applied For Bill	\$ 62.95	\$	132.64	\$ 515.97	\$ 1,038.69	\$	1,387.17
	Current Bill			132.64	\$ 515.97	\$ 1,038.69	\$	1,387.17
	\$ Impact		\$	-	\$ -	\$ -	\$	-
	% Impact	0.09		0.0%	0.0%	0.0%		0.0%
	% of Total Bill	39.19	6	48.3%	57.2%	59.1%		59.6%
Distribution								
Distribution	Applied For Bill	\$ 66.75	\$	82.35	\$ 168.14	\$ 285.14	Ś	363.13
	Current Bill		-	79.90	\$ 160.20	\$ 269.70	\$	342.70
	\$ Impact			2.45	\$ 7.94	\$ 15.44	\$	20.43
	% Impact	2.29		3.1%	5.0%	5.7%		6.0%
	% of Total Bill	41.59	6	30.0%	18.6%	16.2%		15.6%
Retail Transmission								
nown Handingsion	Applied For Bill	\$ 9.40	\$	18.80	\$ 70.48	\$ 140.98	\$	187.96
	Current Bill		-	18.58	\$ 69.70	\$ 139.39	\$	185.86
	\$ Impact	\$ 0.11	\$	0.22	\$ 0.78	\$ 1.59	\$	2.10
	% Impact	1.29		1.2%	1.1%	1.1%		1.1%
	% of Total Bill	5.89	6	6.8%	7.8%	8.0%		8.1%
Delivery (Distribution and Retail Transmission)								
belivery (bistribution and retail Transmission)	Applied For Bill	\$ 76.15	\$	101.15	\$ 238.62	\$ 426.12	Ś	551.09
	Current Bill			98.48	\$ 229.90	\$	\$	528.56
	\$ Impact			2.67	\$ 8.72	\$ 17.03	\$	22.53
	% Impact	2.19		2.7%	3.8%	4.2%		4.3%
	% of Total Bill	47.39	6	36.8%	26.5%	24.3%		23.7%
Regulatory								
guiute.y	Applied For Bill	\$ 7.11	\$	13.98	\$ 51.73	\$ 103.21	\$	137.53
	Current Bill			13.98	\$ 51.73	\$ 103.21	\$	137.53
	\$ Impact		\$	-	\$ -	\$ -	\$	-
	% Impact	0.09		0.0%	0.0%	0.0%		0.0%
	% of Total Bill	4.49	6	5.1%	5.7%	5.9%		5.9%
Debt Retirement Charge								
	Applied For Bill	\$ 7.00	\$	14.00	\$ 52.50	\$ 105.00	\$	140.00
	Current Bill		\$	14.00	\$ 52.50	\$ 105.00	\$	140.00
	\$ Impact_		\$	-	\$ 	\$ -	\$	-
	% Impact % of Total Bill	0.09 4.49		0.0% 5.1%	0.0% 5.8%	0.0% 6.0%		0.0% 6.0%
	% OF TOTAL BIII	4.4/	0	3.1/0	3.6/0	0.0%		0.076
GST								
	Applied For Bill		\$	13.09	\$ 42.94	\$ 83.65	\$	110.79
	Current Bill			12.96	\$ 42.51	\$ 82.80	\$	109.66
	\$ Impact			0.13	\$ 0.43	\$ 0.85	\$	1.13
	% Impact % of Total Bill	1.19 4.89		1.0% 4.8%	1.0% 4.8%	1.0% 4.8%		1.0% 4.8%
	70 OI TOLAI DIII	4.87		4.0%	4.070	4.0/0		4.070
Total Bill								
	Applied For Bill	\$ 160.87	\$	274.86	\$ 901.76	\$ 1,756.67	\$	2,326.58
	Current Bill			272.06	\$ 892.61	\$ 1,738.79	\$	2,302.92
	\$ Impact _			2.80	\$ 9.15	\$ 17.88	\$	23.66
	% Impact	1.09	б	1.0%	1.0%	1.0%		1.0%

Name of LDC: Norfolk Power Distribution Inc. EB-2009-0238

File Number: Effective Date: May 1, 2010

General Service 50 to 4,999 kW

Monthly Rates and Charges	Metric	Current Rate	Applied For Rate
Service Charge	\$	245.37	246.39
Service Charge Rate Adder(s)	\$	-	1.00
Service Charge Rate Rider(s)	\$	- 0.21	-
Distribution Volumetric Rate	\$/kW	3.9228	3.9236
Distribution Volumetric Rate Adder(s)	\$/kW	-	-
Low Voltage Volumetric Rate	\$/kW	-	0.2622
Distribution Volumetric Rate Rider(s)	\$/kW	- 0.0034	0.1698
Retail Transmission Rate – Network Service Rate	\$/kW	1.8322	1.8963
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.7109	1.6733
Retail Transmission Rate – Low Voltage Service Rate	\$/kW	-	-
Wholesale Market Service Rate	\$/kWh	0.0052	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013	0.0013
Standard Supply Service – Administration Charge (if applicable)	\$/kWh	0.25	0.25

Consumption	995,000	kWh	2,480	kW
RPP Tier One	750	kWh	Load Factor	55.0%

Loss Factor 1.0560

General Service 50 to 4,999 kW	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	0.0570	42.75	750	0.0570	42.75	0.00	0.0%	0.04%
Energy Second Tier (kWh)	1,049,970	0.0660	69,298.02	1,049,970	0.0660	69,298.02	0.00	0.0%	64.05%
Sub-Total: Energy			69,340.77			69,340.77	0.00	0.0%	64.09%
Service Charge	1	245.37	245.37	1	246.39	246.39	1.02	0.4%	0.23%
Service Charge Rate Adder(s)	1	0.00	0.00	1	1.00	1.00	1.00	0.0%	0.00%
Distribution Volumetric Rate	2,480	3.9228	9,728.54	2,480	3.9236	9,730.53	1.99	0.0%	8.99%
Distribution Volumetric Rate Adder(s)	2,480	0.0000	0.00	2,480	0.0000	0.00	0.00	0.0%	0.00%
Low Voltage Volumetric Rate	2,480	0.0000	0.00	2,480	0.2622	650.26	650.26	0.0%	0.60%
Distribution Volumetric Rate Rider(s)	2,480	-0.0034	-8.43	2,480	0.1698	421.10	429.53	(5095.3)%	0.39%
Total: Distribution			9,965.27			11,049.28	1,084.01	10.9%	10.21%
Retail Transmission Rate – Network Service Rate	2,480	1.8322	4,543.86	2,480	1.8963	4,702.82	158.96	3.5%	4.35%
Retail Transmission Rate – Line and Transformation Connection Service Rate	2,480	1.7109	4,243.03	2,480	1.6733	4,149.78	-93.25	(2.2)%	3.84%
Retail Transmission Rate – Low Voltage Volumetric Rate	2,480	0.0000	0.00	2,480	0.0000	0.00	0.00	0.0%	0.00%
Total: Retail Transmission			8,786.89			8,852.60	65.71	0.7%	8.18%
Sub-Total: Delivery (Distribution and Retail Transmission)			18,752.16			19,901.88	1,149.72	6.1%	18.40%
Wholesale Market Service Rate	1,050,720	0.0052	5,463.74	1,050,720	0.0052	5,463.74	0.00	0.0%	5.05%
Rural Rate Protection Charge	1,050,720	0.0013	1,365.94	1,050,720	0.0013	1,365.94	0.00	0.0%	1.26%
Standard Supply Service – Administration Charge (if applicable)	1	0.25	0.25	1	0.25	0.25	0.00	0.0%	0.00%
Sub-Total: Regulatory			6,829.93			6,829.93	0.00	0.0%	6.31%
Debt Retirement Charge (DRC)	995,000	0.00700	6,965.00	995,000	0.00700	6,965.00	0.00	0.0%	6.44%
Total Bill before Taxes			101,887.86			103,037.58	1,149.72	1.1%	95.24%
GST	101,887.86	5%	5,094.39	103,037.58	5%	5,151.88	57.49	1.1%	4.76%
Total Bill			106,982.25			108,189.46	1,207.21	1.1%	100.00%

Manager's Summary Appendix B Customer Impact

General Service 50 to 4,999 kW										
kWl	h	20,000	510	0,000		995,000	1	1,501,000	2	2,006,000
Loss Factor Adjusted kW	h	21,120	538	3,560		1,050,720	•	1,585,056	2	2,118,336
kV	V	50	1,	270		2,480		3,740		5,000
Load Factor	r	54.8%	55	5.0%		55.0%		55.0%		55.0%
Energy										
Applied For E	sill \$	1,387.17	\$	35,538.21	\$	69,340.77	\$	104,606.95	\$	139,803.43
Current E	Bill \$	1,387.17	\$:	35,538.21	\$	69,340.77	\$	104,606.95	\$	139,803.43
\$ Impa	ct \$	-	\$	-	\$	-	\$	-	\$	-
% Impa		0.0%		0.0%		0.0%		0.0%		0.0%
% of Total E	Bill	57.2%		64.0%	ò	64.1%		64.1%		64.2%
Distribution										
Applied For E	sill \$	465.17	\$	5,779.02	\$	11,049.33	\$	16,537.40	\$	22,025.48
Current E	Bill \$	441.13	\$	5,222.80	\$	9,965.27	\$	14,903.71	\$	19,842.16
\$ Impa	ct \$	24.04	\$	556.22	\$	1,084.06	\$	1,633.69	\$	2,183.32
% Impa		5.4%		10.6%	5	10.9%		11.0%		11.0%
% of Total E	Bill	19.2%		10.4%	5	10.2%		10.1%		10.1%
Retail Transmission										
Applied For E	sill \$	178.48	\$	4,533.39	\$	8,852.60	\$	13,350.30	\$	17,848.00
Current E	Bill \$	177.15	\$	4,499.73	\$	8,786.89	\$	13,251.20	\$	17,715.50
\$ Impa	ct \$	1.33	\$	33.66	\$	65.71	\$	99.10	\$	132.50
% Impa		0.8%		0.7%		0.7%		0.7%		0.7%
% of Total E	Bill	7.4%		8.2%	5	8.2%		8.2%		8.2%
Delivery (Distribution and Retail Transmission)										
Applied For E	Bill \$	643.65	\$	10,312.41	\$	19,901.93	\$	29,887.70	\$	39,873.48
Current E	Bill \$	618.49	\$	9,722.74	\$	18,752.37	\$		\$	37,557.87
\$ Impa	_		\$	589.67		1,149.56	\$	1,732.58	\$	2,315.61
% Impa		4.1%		6.1%		6.1%		6.2%		6.2%
% of Total E	Bill	26.6%		18.6%	b	18.4%		18.3%		18.3%
Regulatory										
Applied For E	Bill \$	137.53	\$	3,500.89	\$	6,829.93	\$	10,303.11	\$	13,769.44
Current E	Bill \$	137.53	\$	3,500.89	\$	6,829.93	\$	10,303.11	\$	13,769.44
\$ Impa			\$	-	\$	-	\$	-	\$	-
% Impa		0.0%		0.0%		0.0%		0.0%		0.0%
% of Total E	Bill	5.7%		6.3%	5	6.3%		6.3%		6.3%
Debt Retirement Charge										
Applied For E	Bill \$	140.00	\$	3,570.00	\$	6,965.00	\$	10,507.00	\$	14,042.00
Current E	Bill \$	140.00	\$	3,570.00	\$	6,965.00	\$	10,507.00	\$	14,042.00
\$ Impa			\$	-	\$	-	\$	-	\$	-
% Impa		0.0%		0.0%		0.0%		0.0%		0.0%
% of Total E	Bill	5.8%		6.4%	b	6.4%		6.4%		6.4%
GST										
Applied For E		115.42		2,646.08		5,151.88	\$	7,765.24	\$	10,374.42
Current E		114.16		2,616.59	_	5,094.40	_	7,678.61	\$	10,258.64
\$ Impa	_		\$	29.49		57.48	\$	86.63	\$	115.78
% Impa % of Total B		1.1% 4.8%		1.1% 4.8%		1.1% 4.8%		1.1% 4.8%		1.1% 4.8%
% Of Total E	2111	4.0%		4.870	,	4.8%		4.8%		4.670
Total Bill										
Applied For E		2,423.77		55,567.59		108,189.51	\$	163,070.00	\$	217,862.77
Current E		-		54,948.43		106,982.47	\$	161,250.79	\$	215,431.38
\$ Impa % Impa		26.42 1.1%	\$	619.16 1.1%		1,207.04 1.1%	\$	1,819.21 1.1%	\$	2,431.39 1.1%
% Impa	ıcı	1.170		1.170	,	1.170		1.170		1.170

Name of LDC: Norfolk Power Distribution Inc.

File Number: EB-2009-0238 Effective Date: May 1, 2010

Street Lighting

Monthly Rates and Charges	Metric	Current Rate	Applied For Rate
Service Charge	\$	1.85	1.87
Service Charge Rate Adder(s)	\$	-	-
Service Charge Rate Rider(s)	\$	-	-
Distribution Volumetric Rate	\$/kW	6.4893	7.3081
Distribution Volumetric Rate Adder(s)	\$/kW	-	-
Low Voltage Volumetric Rate	\$/kW	-	0.1999
Distribution Volumetric Rate Rider(s)	\$/kW	- 0.0050	0.1719
Retail Transmission Rate – Network Service Rate	\$/kW	1.3819	1.4303
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3227	1.2936
Retail Transmission Rate – Low Voltage Service Rate	\$/kW	-	
Wholesale Market Service Rate	\$/kWh	0.0052	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013	0.0013
Standard Supply Service – Administration Charge (if applicable)	\$/kWh	0.25	0.25

Consumption	37	kWh	0.10	kW
RPP Tier One	750	kWh	Load Factor	50.7%

	Loss Factor	1.0560
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Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
40	0.0570	2.28	40 0.0570		2.28	0.00	0.0%	36.42%
0	0.0660	0.00	0 0.0660		0.00	0.00	0.0%	0.00%
		2.28			2.28	0.00	0.0%	36.42%
1	1.85	1.85	1	1.87	1.87	0.02	1.1%	29.87%
1	0.00	0.00	1	0.00	0.00	0.00	0.0%	0.00%
0.10	6.4893	0.65	0.10	7.3081	0.73	0.08	12.3%	11.66%
0.10	0.0000	0.00	0.10	0.0000	0.00	0.00	0.0%	0.00%
0.10	0.0000	0.00	0.10	0.1999	0.02	0.02	0.0%	0.32%
0.10	-0.0050	0.00	0.10	0.1719	0.02	0.02	0.0%	0.32%
		2.50			2.64	0.14	5.6%	42.17%
0.10	1.3819	0.14	0.10	1.4303	0.14	0.00	0.0%	2.24%
0.10	1.3227	0.13	0.10	1.2936	0.13	0.00	0.0%	2.08%
0.10	0.0000	0.00	0.10	0.0000	0.00	0.00	0.0%	0.00%
		0.27			0.27	0.00	0.0%	4.31%
		2.77			2.91	0.14	5.1%	46.49%
40	0.0052	0.21	40	0.0052	0.21	0.00	0.0%	3.35%
40	0.0013	0.05	40	0.0013	0.05	0.00	0.0%	0.80%
1	0.25	0.25	1	0.25	0.25	0.00	0.0%	3.99%
		0.51			0.51	0.00	0.0%	8.15%
37	0.00700	0.26	37	0.00700	0.26	0.00	0.0%	4.15%
		5.82			5.96	0.14	2.4%	95.21%
5.82	5%	0.29	5.96	5%	0.30	0.01	3.4%	4.79%
		6.11		· · · · · · · · · · · · · · · · · · ·	6.26	0.15	2.5%	100.00%
	40 0 1 1 0.10 0.10 0.10 0.10 0.10 0.10 0	Volume \$ 40 0.0570 0 0.0660 1 1.85 1 0.00 0.10 6.4893 0.10 0.0000 0.10 0.0000 0.10 0.0000 0.10 1.3819 0.10 1.3227 0.10 0.0000 40 0.0052 40 0.0013 1 0.25 37 0.00700	Volume \$ \$ \$ \$ \$ \$ \$ \$ \$	Volume \$ \$ Volume	Volume S Vol	Volume S	Volume S S Volume S S S	Volume S

Manager's Summary Appendix B Customer Impact

Street Lighting	1148	07		70		440		4.40		400
	kWh	37 40		73		110		146		183
	Loss Factor Adjusted kWh kW	0.10		78 0.20		117 0.30		155 0.40		194 0.50
	Load Factor			50.0%		50.3%		0.0%		0.2%
inergy	Applied For Bill	\$ 2.28	Ś	4.45	\$	6.67	\$	8.84	\$	11.06
	Current Bill				\$	6.67	\$	8.84	\$	11.06
	\$ Impact	\$ -	\$	-	\$	-	\$	-	\$	-
	% Impact			0.0%		0.0%		0.0%		0.09
	% of Total Bill	36.4%		43.8%		47.3%		49.1%		50.39
Distribution										
	Applied For Bill			3.40		4.17	\$	4.94		5.71
	Current Bill		_	3.15		3.80	\$	4.45	\$	5.09
	\$ Impact		\$	0.25	\$	0.37	\$	0.49	\$	0.62
	% Impact			7.9%		9.7%		11.0%		12.29
	% of Total Bill	42.2%		33.5%		29.6%		27.4%		26.09
Retail Transmission										
	Applied For Bill			0.55	-	0.82		1.09	\$	1.37
	Current Bill				\$	0.81	\$	1.08	\$	1.35
	\$ Impact		\$		\$	0.01	\$	0.01	\$	0.02
	% Impact % of Total Bill			1.9%		1.2%		0.9%		1.59
	% OF TOTAL BIII	4.3%	1	5.4%		5.8%		6.1%		6.29
Delivery (Distribution and Retail	•									
	Applied For Bill			3.95		4.99	\$	6.03		7.08
	Current Bill				\$	4.61	\$	5.53	\$	6.44
	\$ Impact % Impact		\$	0.26 7.0%	\$	0.38 8.2%	\$	0.50 9.0%	\$	9.99
	% of Total Bill			38.9%		35.4%		33.5%		32.29
Regulatory										
	Applied For Bill			0.76		1.01		1.26		1.51
	Current Bill \$ Impact		\$	0.76	\$	1.01	\$	1.26	\$	1.51
	% Impact			0.0%	ş	0.0%	Ş	0.0%	ې	0.09
	% of Total Bill			7.5%		7.2%		7.0%		6.99
Oakt Batirament Charge										
Debt Retirement Charge	Applied For Bill	\$ 0.26	Ś	0.51	Ś	0.77	\$	1.02	\$	1.28
	Current Bill					0.77	\$	1.02	\$	1.28
	\$ Impact		\$	-	\$	-	\$	-	\$	-
	% Impact			0.0%		0.0%		0.0%		0.09
	% of Total Bill	4.2%		5.0%		5.5%		5.7%		5.89
SST										
331	Applied For Bill	\$ 0.30	\$	0.48	\$	0.67	\$	0.86	\$	1.05
	Current Bill					0.65		0.83	\$	1.01
	\$ Impact	\$ 0.01	\$	0.01	\$	0.02	\$	0.03	\$	0.04
	% Impact			2.1%		3.1%		3.6%		4.09
	% of Total Bill	4.8%		4.7%		4.7%		4.8%		4.89
Total Bill										
	Applied For Bill	\$ 6.26	\$	10.15	\$	14.11	\$	18.01	\$	21.98
	Current Bill		\$	9.88	\$	13.71	\$	17.48	\$	21.30
	\$ Impact		\$	0.27	\$	0.40	\$	0.53	\$	0.68
	% Impact	2.5%		2.7%		2.9%		3.0%		3.2%

Name of LDC: Norfolk Power Distribution Inc. EB-2009-0238

File Number: Effective Date: May 1, 2010

Sentinel Lighting

Monthly Rates and Charges	Metric	Current Rate	Applied For Rate
Service Charge	\$	6.15	6.20
Service Charge Rate Adder(s)	\$	-	
Service Charge Rate Rider(s)	\$	-	
Distribution Volumetric Rate	\$/kW	15.4239	18.7510
Distribution Volumetric Rate Adder(s)	\$/kW	-	
Low Voltage Volumetric Rate	\$/kW	-	0.2024
Distribution Volumetric Rate Rider(s)	\$/kW	- 0.0109	0.2217
Retail Transmission Rate – Network Service Rate	\$/kW	1.3888	1.4374
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3503	1.3206
Retail Transmission Rate – Low Voltage Service Rate	\$/kW	-	-
Wholesale Market Service Rate	\$/kWh	0.0052	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013	0.0013
Standard Supply Service – Administration Charge (if applicable)	\$/kWh	0.25	0.25

Consumption	180	kWh	0.50	kW
RPP Tier One	750	kWh	Load Factor	49.3%

Loss Factor 1.0560

Sentinel Lighting	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	191	0.0570	10.89	191	0.0570	10.89	0.00	0.0%	33.66%
Energy Second Tier (kWh)	0	0.0660	0.00	0	0.0660	0.00	0.00	0.0%	0.00%
Sub-Total: Energy			10.89			10.89	0.00	0.0%	33.66%
Service Charge	1	6.15	6.15	1	6.20	6.20	0.05	0.8%	19.17%
Service Charge Rate Adder(s)	1	0.00	0.00	1	0.00	0.00	0.00	0.0%	0.00%
Distribution Volumetric Rate	0.50	15.4239	7.71	0.50	18.7510	9.38	1.67	21.7%	29.00%
Distribution Volumetric Rate Adder(s)	0.50	0.0000	0.00	0.50	0.0000	0.00	0.00	0.0%	0.00%
Low Voltage Volumetric Rate	0.50	0.0000	0.00	0.50	0.2024	0.10	0.10	0.0%	0.31%
Distribution Volumetric Rate Rider(s)	0.50	-0.0109	-0.01	0.50	0.2217	0.11	0.12	(1200.0)%	0.34%
Total: Distribution			13.85			15.79	1.94	14.0%	48.81%
Retail Transmission Rate – Network Service Rate	0.50	1.3888	0.69	0.50	1.4374	0.72	0.03	4.3%	2.23%
Retail Transmission Rate – Line and Transformation Connection Service Rate	0.50	1.3503	0.68	0.50	1.3206	0.66	-0.02	(2.9)%	2.04%
Retail Transmission Rate – Low Voltage Volumetric Rate	0.50	0.0000	0.00	0.50	0.0000	0.00	0.00	0.0%	0.00%
Total: Retail Transmission			1.37			1.38	0.01	0.7%	4.27%
Sub-Total: Delivery (Distribution and Retail Transmission)			15.22			17.17	1.95	12.8%	53.08%
Wholesale Market Service Rate	191	0.0052	0.99	191	0.0052	0.99	0.00	0.0%	3.06%
Rural Rate Protection Charge	191	0.0013	0.25	191	0.0013	0.25	0.00	0.0%	0.77%
Standard Supply Service – Administration Charge (if applicable)	1	0.25	0.25	1	0.25	0.25	0.00	0.0%	0.77%
Sub-Total: Regulatory			1.49			1.49	0.00	0.0%	4.61%
Debt Retirement Charge (DRC)	180	0.00700	1.26	180	0.00700	1.26	0.00	0.0%	3.89%
Total Bill before Taxes			28.86			30.81	1.95	6.8%	95.24%
GST	28.86	5%	1.44	30.81	5%	1.54	0.10	6.9%	4.76%
Total Bill			30.30			32.35	2.05	6.8%	100.00%

Manager's Summary Appendix B Customer Impact

Sentinel Lighting										
Sentiner Lighting	kWh	70		130		180		270		360
	Loss Factor Adjusted kWh	74		138		191		286		381
	kW	0.20		0.35		0.50		0.75		1.00
	Load Factor	48.0%	•	50.9%		49.3%	4	19.3%	4	9.3%
Energy										
	Applied For Bill				\$	10.89	\$	16.30	\$	21.72
	Current Bill \$ Impact		2 \$ \$		\$	10.89	\$	16.30	\$	21.72
	% Impact	۰.0		0.0%	٧	0.0%	_	0.0%	ڔ	0.0%
	% of Total Bill	25.		31.5%		33.7%		36.1%		37.5%
Distribution										
	Applied For Bill					15.79	-	20.58	\$	25.37
	Current Bill				\$	13.85		17.71	\$	21.56
	\$ Impact % Impact		80 \$ 7%	1.36 11.8%	\$	1.94 14.0%	\$	2.87 16.2%	\$	3.81 17.7%
	% of Total Bill	59.		51.7%		48.8%		45.6%		43.8%
	70 OT TOTAL BIII	33.	J/0	31.770		40.070	,	45.0%		43.670
Retail Transmission										
	Applied For Bill	\$ 0.5	5 \$	0.96	\$	1.38	\$	2.07	\$	2.76
	Current Bill				\$	1.37	\$	2.05	\$	2.74
	\$ Impact_		\$		\$	0.01	\$	0.02	\$	0.02
	% Impact		0%	0.0%		0.7%		1.0%		0.7%
	% of Total Bill	3	3%	3.8%		4.3%	•	4.6%		4.8%
Delivery (Distribution and Retail Transn	nission)									
Donvery (Distribution and Notali Transit	Applied For Bill	\$ 10.5	8 \$	13.87	\$	17.17	\$	22.65	\$	28.13
	Current Bill				\$	15.22	\$	19.76	\$	24.30
	\$ Impact	\$ 0.8	80 \$	1.36	\$	1.95	\$	2.89	\$	3.83
	% Impact	8.		10.9%		12.8%		14.6%		15.8%
	% of Total Bill	62.	9%	55.5%		53.1%	,	50.2%		48.6%
Regulatory										
Regulatory	Applied For Bill	\$ 0.7	3 \$	1.15	\$	1.49	\$	2.11	¢	2.73
	Current Bill				\$	1.49		2.11	\$	2.73
	\$ Impact		\$		\$	-	\$	-	\$	-
	% Impact	0.0)%	0.0%		0.0%	,	0.0%		0.0%
	% of Total Bill	4.	3%	4.6%		4.6%	,	4.7%		4.7%
Bully Bully and Olivers										
Debt Retirement Charge	Applied For Bill	\$ 0.4	19 \$	0.91	\$	1.26	\$	1.89	\$	2.52
	Current Bill				\$	1.26		1.89	\$	2.52
	\$ Impact	•	\$		\$	- 1.20	\$	-	\$	-
	% Impact)%	0.0%		0.0%	_	0.0%	-	0.0%
	% of Total Bill	2.	9%	3.6%		3.9%	,	4.2%		4.4%
GST										
	Applied For Bill				\$	1.54		2.15	\$	2.76
	Current Bill \$ Impact				\$	1.44 0.10	\$	2.00 0.15	\$	2.56 0.20
	% Impact	5 0.0		6.2%	٧	6.9%	_	7.5%	ڔ	7.8%
	% of Total Bill	4.		4.8%		4.8%		4.8%		4.8%
Total Bill										
	Applied For Bill				\$	32.35		45.10	\$	57.86
	Current Bill				\$	30.30	\$	42.06	\$	53.83
	\$ Impact				\$	2.05	\$	3.04 7.2%	\$	4.03
	% Impact	5.	70	6.1%		6.8%)	7.2%		7.5%

Name of LDC: Norfolk Power Distribution Inc. EB-2009-0238

File Number: Effective Date: May 1, 2010

Unmetered Scattered Load

Monthly Rates and Charges	Metric	Current Rate	Applied For Rate
Service Charge	\$	26.55	26.77
Service Charge Rate Adder(s)	\$	-	
Service Charge Rate Rider(s)	\$	- 0.02	
Distribution Volumetric Rate	\$/kWh	0.0156	0.0156
Distribution Volumetric Rate Adder(s)	\$/kWh	-	
Low Voltage Volumetric Rate	\$/kWh	-	0.0006
Distribution Volumetric Rate Rider(s)	\$/kWh	-	0.0007
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0045	0.0047
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043	0.0042
Retail Transmission Rate – Low Voltage Service Rate	\$/kWh	-	-
Wholesale Market Service Rate	\$/kWh	0.0052	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013	0.0013
Standard Supply Service – Administration Charge (if applicable)	\$/kWh	0.25	0.25

Consumption	2,000	kWh	-	kW
RPP Tier One	750	kWh	Load Factor	

Loss Factor 1.0560

Unmetered Scattered Load	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	0.0570	42.75	750	0.0570	42.75	0.00	0.0%	16.96%
Energy Second Tier (kWh)	1,362	0.0660	89.89	1,362	0.0660	89.89	0.00	0.0%	35.67%
Sub-Total: Energy			132.64			132.64	0.00	0.0%	52.64%
Service Charge	1	26.55	26.55	1	26.77	26.77	0.22	0.8%	10.62%
Service Charge Rate Adder(s)	1	0.00	0.00	1	0.00	0.00	0.00	0.0%	0.00%
Distribution Volumetric Rate	2,000	0.0156	31.20	2,000	0.0156	31.20	0.00	0.0%	12.38%
Distribution Volumetric Rate Adder(s)	2,000	0.0000	0.00	2,000	0.0000	0.00	0.00	0.0%	0.00%
Low Voltage Volumetric Rate	2,000	0.0000	0.00	2,000	0.0006	1.20	1.20	0.0%	0.48%
Distribution Volumetric Rate Rider(s)	2,000	0.0000	0.00	2,000	0.0007	1.40	1.40	0.0%	0.56%
Total: Distribution			57.73			60.57	2.84	4.9%	24.04%
Retail Transmission Rate – Network Service Rate	2,112	0.0045	9.50	2,112	0.0047	9.93	0.43	4.5%	3.94%
Retail Transmission Rate – Line and Transformation Connection Service Rate	2,112	0.0043	9.08	2,112	0.0042	8.87	-0.21	(2.3)%	3.52%
Retail Transmission Rate – Low Voltage Volumetric Rate	2,112	0.0000	0.00	2,112	0.0000	0.00	0.00	0.0%	0.00%
Total: Retail Transmission			18.58			18.80	0.22	1.2%	7.46%
Sub-Total: Delivery (Distribution and Retail Transmission)			76.31			79.37	3.06	4.0%	31.50%
Wholesale Market Service Rate	2,112	0.0052	10.98	2,112	0.0052	10.98	0.00	0.0%	4.36%
Rural Rate Protection Charge	2,112	0.0013	2.75	2,112	0.0013	2.75	0.00	0.0%	1.09%
Standard Supply Service – Administration Charge (if applicable)	1	0.25	0.25	1	0.25	0.25	0.00	0.0%	0.10%
Sub-Total: Regulatory			13.98			13.98	0.00	0.0%	5.55%
Debt Retirement Charge (DRC)	2,000	0.00700	14.00	2,000	0.00700	14.00	0.00	0.0%	5.56%
Total Bill before Taxes			236.93			239.99	3.06	1.3%	95.24%
GST	236.93	5%	11.85	239.99	5%	12.00	0.15	1.3%	4.76%
Total Bill		•	248.78			251.99	3.21	1.3%	100.00%

Manager's Summary Appendix B Customer Impact

Unmetered Scattered Load										
	kWh	500		2,000		7,500		15,000	1	20,000
Loss Factor Adjusted		528 2,112				7,920		15,840	7	21,120
	kW									
Load Fa	actor									
Energy										
	For Bill \$	30.10	\$	132.64	Ś	515.97	\$	1,038.69	\$	1,387.17
	ent Bill \$		\$	132.64	\$	515.97	\$		\$	1,387.17
\$1	Impact \$	-	\$	-	\$	-	\$	-	\$	-
	Impact	0.0%		0.0%		0.0%		0.0%		0.0%
% of To	otal Bill	37.1%		52.6%		58.2%		59.3%		59.6%
Distribution										
	For Bill \$	35.22	\$	60.59	Ś	153.58	Ś	280.39	\$	364.93
	ent Bill \$		\$	57.73	\$	143.53	\$		\$	338.53
\$1	Impact \$	0.89	\$	2.86	\$	10.05	\$	19.86	\$	26.40
	Impact	2.6%		5.0%		7.0%		7.6%		7.8%
% of To	otal Bill	43.4%		24.0%		17.3%		16.0%		15.7%
Retail Transmission										
	For Bill \$	4.70	S	18.80	Ś	70.48	\$	140.98	\$	187.96
	ent Bill \$		\$	18.58	\$	69.70	\$		\$	185.86
	Impact \$		\$	0.22	\$	0.78	\$		\$	2.10
% !	Impact	1.1%		1.2%		1.1%		1.1%		1.1%
% of To	otal Bill	5.8%		7.5%		8.0%		8.0%		8.1%
Delivery (Distribution and Detail Transmission)										
Delivery (Distribution and Retail Transmission)	For Bill \$	39.92	Ċ	79.39	Ċ	224.06	Ċ	421.37	\$	552.89
	ent Bill \$		\$	76.31	\$	213.23	\$		\$	524.39
	Impact \$		\$	3.08	\$	10.83	\$		\$	28.50
% I	Impact	2.4%		4.0%		5.1%		5.4%		5.4%
% of To	otal Bill	49.2%		31.5%		25.3%		24.1%		23.7%
Post lateral										
Regulatory	For Dill ¢	2.00	\$	13.98	ć	51.73	ċ	102.21	4	127 52
	For Bill \$ ent Bill \$		\$	13.98	\$	51.73	\$	103.21 103.21	\$	137.53 137.53
	Impact \$		\$	-	\$	-	\$	-	\$	-
	Impact	0.0%		0.0%		0.0%	_	0.0%		0.0%
% of To	otal Bill	4.6%		5.5%		5.8%		5.9%		5.9%
Debt Retirement Charge	For Dill 4	2.50	۲.	14.00	¢	F2 F0	ċ	105.00	۲.	140.00
	For Bill <mark>\$</mark> ent Bill \$		\$	14.00 14.00	\$	52.50 52.50	\$		\$	140.00 140.00
	Impact \$		\$	-	\$	- 32.30	\$	-	\$	-
	Impact	0.0%		0.0%	-	0.0%		0.0%	<u> </u>	0.0%
% of To	otal Bill	4.3%		5.6%		5.9%		6.0%		6.0%
GST	5 DIII 4	2.05		42.00		40.04		00.44		440.00
	For Bill \$ ent Bill \$		\$	12.00 11.85	\$	42.21 41.67	\$	83.41 82.34	\$	110.88 109.45
	Impact \$		\$	0.15	\$	0.54	\$		\$	1.43
	Impact 3	1.3%	~	1.3%	Υ	1.3%	٧	1.3%	<u>~</u>	1.3%
% of To		4.8%		4.8%		4.8%		4.8%		4.8%
Total Bill										
	For Bill \$		-	252.01		886.47	\$		\$	2,328.47
	ent Bill \$		\$	248.78	\$	875.10	\$		\$	2,298.54
	Impact \$ Impact	0.99	\$	3.23 1.3%	Þ	11.37 1.3%	Ş	22.52 1.3%	\$	29.93 1.3%
70 1	mpact	1.2/0		1.5%		1.3%		1.5/0		1.3/0

Norfolk Power Distribution Inc EB-2009-0238 Exhibit 1

Exhibit 1: LRAM and SSM Application

LOST REVENUE ADJUSTMENT MECHANISM AND SHARED SAVINGS MECHANISM

Summary

Norfolk Power Distribution Inc (NPDI) herewith submits an application to the Ontario Energy Board (OEB) for the approval and recovery of historical Lost Revenue Mechanism (LRAM) and Shared Savings Mechanism (SSM) amounts related to new and ongoing Conservation and Demand Management (CDM) activities in 2006, 2007 and 2008. It is requested these amounts be recovered through a rate rider over a one year period, commencing May 1 2010. Total amount for recovery is \$210,957, including carrying charges of \$9,600. Amounts for SSM and LRAM recovery are summarized in Table 1.

Table 1: Summary of Requested LRAM and SSM Amounts

Customer		Carrying		
Class	LRAM	Charges	SSM	Total
Residential	\$145,235	\$8,769	\$17,255	\$171,259
GS < 50 kW	1,293	78	374	1,745
GS > 50 kW	12,467	753	24,734	37,954
Total	\$158,995	\$9,600	\$42,362	\$210,957

SSM Amounts

All CDM programs for which SSM amounts are sought were undertaken in connection with NPDI's Third Tranche CMD spending obligations in 2006 and 2007. No SSM amount is sought in relation to activities of other parties.

The total SSM sought for recovery is \$42,362, which is based on the results of the Total Resource Cost test (TRC test) which NPDI used to evaluate the results of their CDM programs. The TRC test examines the benefits of a program (avoided electricity costs) with program costs which include the LDC's costs and the participant's costs over the life of the program. The stream of future net benefits is evaluated using net present value (NPV). In accordance with CDM guidelines NPDI is requesting recovery of 5% of the NPV of the CDM programs.

Table 2 on the following page provides the SSM amounts by program and customer rate class.

Table 2: SSM Amounts by Program and Rate Class

Class Program	Total Costs \$	Total Benefits \$	Net Benefits \$ NPV	Benefits/ Cost Ratio	SSM Amount
RESIDENTIAL					
Cold Water Wash	\$1,385	\$2,741	\$1,356	1.98	\$68
Energy Star Windows	9,899	8,262	-1,637	0.83	-82
Lighten Your Electricity Bill	19,487	74,807	55,320	3.84	2,766
CFL Education & Giveaway LED Seasonal Light Exchange	7,535	21,302	13,767	2.83	688
Program	20,941	199,057	178,115	9.51	8,906
Water Heater Replacement	18,183	24,385	6,202	1.34	310
Applicant Rebate Program	39,128	46,741	7,613	1.19	381
Environmental Action Kits	6,020	225,632	219,612	37.48	10,981
Conserver Family Residential Customer Education	28,869		-28,869		-1,443
Program	106,386		-106,386		-5,319
GENERAL SERVICE < 50kW Norfolk Power Facility	25,538	33,012	7,474	1.29	374
Lighting Retrofit Program					
GENERAL SERVICE > 50kW					
Energy Audits for Major Customers	79,498	574,168	494,670	7.22	24,734
Total	\$362,868	\$1,210,107	\$847,238		\$42,362

LRAM Amounts

The LRAM adjusts for volumetric variances between actual CDM results and the corresponding quantities used in rate setting. The requested LRAM recovery amount is derived from savings composed of:

- 1. Third Tranche CDM programs implemented in 2005, 2006, and 2007.
- 2. Ontario Power Authority (OPA) CDM programs implemented in 2007 and 2008.

None of the load reductions produced were factored in to the load forecast underpinning 2006, 2007 or 2008 rates. Therefore, NPDI proposes recovery of LRAM amounts related to the entire load reductions, net of free rider quantities. The calculation of the load reduction is based on the energy and demand savings and the lifespan of the technology by rate class.

The total LRAM amount sought for recovery is \$168,596, of which \$28,659 is a related to Third Tranche programs, \$130,336 is a result of OPA programs and \$9,600 is carrying charges. A summary of CDM load impacts by program and customer class is listed in Appendix 1. The foregone revenue is calculated on the load reductions using the applicable rates from each rate class. The foregone revenue by program and rate class is available in Appendix 2.

Carrying charges have been calculated using OEB approved rates. As monthly balances are not available for the purpose of carrying charge calculation, annual amounts have been assumed to be earned evenly throughout the year. Appendix 3 outlines the monthly carrying charge calculations until May 1 2010.

Verification and Evaluation of Results

NPDI engaged EnerSpectrum Group to review its CDM program results and TRC calculations and aid in the calculation of recovery amounts in light of OEB guidelines. EnerSpectrum reported that the values provided in this application are considered valid. The full report prepared by EnerSpectrum is available in Appendix 4.

Recovery

NPDI requests recovery of the LRAM and SSM amounts by way of volumetric rate riders over a 12 month period, effective May 1 2010, with the foregone revenue from each customer class allocated to that class for recovery. Table 1 sets out the corresponding amounts by class, as well as the corresponding rate rider based on 2008 actual volume.

Impact on customer bills has been included in the OEB 2010 IRM3 Rate Generator Model and summarized in the applicant's Manager's Summary.

Table 3: LRAM / SSM Amounts and Rate Riders by Class

		LRAM					Rate Rider \$
Customer		Carrying				2008 Billed	/ unit (kWh
Class	LRAM	Charges	SSM	Total	Unit	kWh / kW	or kW)
Residential	\$145,235	\$8,769	\$17,255	\$171,259	kWh	140,646,761	0.001218
GS < 50 kW	1,293	78	374	1,745	kWh	63,223,253	0.000028
GS > 50 kW	12,467	753	24,734	37,954	kW	361,081	0.105110
Total	\$158,995	\$9,600	\$42,362	\$210,957			

Appendix 1 CDM Load Impacts by Program and Rate Class

	ſ	NET GROSS		NE	NET GROSS			NET GROSS			SS	NET		GROSS			
Class	Year	200		200		200		200		200		200		Total kWh Total kW		Total kWh	Total kW
	Implemented	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW		101411111	1010111111	101011111
Third Tranche		KVVII	KVV	KVVII	KVV	KVVII	KW	RVVII	KVV	KVVII	KVV	KVVII	KVV				
RESIDENTIAL Energy Star Window Program	2005	5,543	5.00	7,919	7.14	5,543	5.00	7,919	7.14	5,543	5.00	7,919	7.14	16,629	15.00	23,756	21.43
Water Heater Replacement Program	2007									27,137	3.00	38,767	4.29	27,137	3.00	38,767	4.29
Lighten Your Electricity Bill	2005	124,462	10.05	136,257	11.17	124,462	10.05	136,257	11.17	124,462	10.05	136,257	11.17	373,385	30.16	408,771	33.52
Cold Water Wash	2005	42,987	1.44	57,316	1.91									42,987	1.44	57,316	1.91
CFL Education & Giveaway	2006					35,692	0.83	39,658	0.92	35,692	0.83	39,658	0.92	71,384	1.65	79,315	1.84
LED Seasonal Light Exchange Program	2006, 2007					197,648	0.00	208,050	85.53	468,398	0.00	493,050	0.00	666,045	0.00	701,100	85.53
Enviornmental Action Kits	2007, 2008									311,040	7.20	345,600	8.00	311,040	7.20	345,600	8.00
Energy Star Applicance Rebate Program	2007, 2008									2,896	0.12	3,218	0.13	2,896	0.12	3,218	0.13
GENERAL SERVICE <50KW Norfolk Power Facility Lighting Retrofit Program	2007									132,631	17.45	165,789	21.81	132,631	17.45	165,789	21.81
GENERAL SERVICE >50KW																	
Energy Audits for Major Customers	2005 - 2006	830,647	147.00	1,186,639	210.00	1,709,320	409.00	2,441,886	584.29	1,709,320	409.00	2,441,886	584.29	4,249,287	965.00	6,070,410	1378.57
-																	
OPA Programs																	
RESIDENTIAL																	
Every Kilowatt Counts (spring)	2006	475,095	3.10	527,884	3.44	475,095	3.10	527,884	3.44	475,095	3.10	527,884	3.44	1,425,286	9.29	1,583,651	10.32
	2006, 2007, 2008	36,211	37.09	40,235	41.21	140,922	105.83	239,555	179.02	202,884	155.87	347,513	266.29	380,018	298.79	627,303	486.51
Secondary Fridge Retirement Pilot	2006	19,450	4.41	21,611	4.90	19,450	4.41	21,611	4.90	19,450	4.41	21,611	4.90	58,350	13.23	64,833	14.70
Every Kilowatt Counts (fall)	2006	770,749	11.60	856,387	12.89	770,749	11.60	856,387	12.89	770,749	11.60	856,387	12.89	2,312,246	34.79	2,569,162	38.66
Great Refrigerator Roundup	2007, 2008					75,039	8.06	186,730	19.85	205,432	20.79	471,553	47.66	280,471	28.85	658,283	67.51
Aboriginal – Pilot	2007					0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Every Kilowatt Counts	2007					457,961	17.58	649,141	25.46	452,407	15.93	639,044	22.46	910,368 0	33.52	1,288,185	47.92
peaksaver®	2007, 2008 2007					0 630,583	1.70 350.32	0 5,254,862	1.89 2919.37	0 630,583	91.12 350.32	0 5,254,862	101.24 2919.37	1,261,167	92.82 700.65	0 10,509,724	103.13 5838.74
Summer Savings Affordable Housing – Pilot	2007					030,383	0.00	0	0.00	030,363	0.00	0	0.00	0	0.00	10,509,724	0.00
Social Housing – Pilot	2007					41,273	4.86	41,273	4.86	41,273	4.86	41,273	4.86	82,546	9.71	82,546	9.71
Energy Efficiency Assistance for Houses – Pilot	2007					0	0.00	0	0.00	0	0.00	0	0.00	02,340	0.00	02,340	0.00
Aboriginal	2008					U	0.00	O	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Summer Sweepstakes	2008									0	0.61	0	1.74	0	0.61	0	1.74
Every Kilowatt Counts Power Savings Event	2008									154,949	10.36	216,776	20.95	154.949	10.36	216,776	20.95
Every knowate counts I ower Savings Event	2000									154,545	10.50	210,770	20.55	154,545	10.50	210,770	20.55
GENERAL SERVICE <50KW												_				_	
Toronto Comprehensive	2007, 2008					0	0.00	0	0.00	0	0.00	0	0.00			0	0.00
High Performance New Construction	2008									824	0.36	1,177	0.52	824	0.36	1,177	0.52
Power Savings Blitz	2008									0	0.00	0	0.00	0	0.00	0	0.00
Chiller Plant Re-Commissioning	2008									0	0.00	0	0.00	0	0.00	0	0.00
GENERAL SERVICE >50KW																	
•	2006, 2007, 2008	0	552.73	0	807.83	0	910.78	0	910.78	0	910.87	0	910.91	0	2374.38	0	2629.52
Electricity Retrofit Incentive Program	2007, 2008					68,875	24.79	76,527	27.55	69,290	24.98	77,120	27.81	138,164	49.77	153,647	55.36
Other Demand Response	2007, 2008					0	75.76	0	75.76	0	83.82	0	83.82	0	159.57	0	159.57
Demand Response 3	2008									0	229.10	0	229.10	0	229.10	0	229.10
UNMETERED SCATTERED LOAD																	
Renewable Energy Standard Offer	2007, 2008					0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
LDC Custom	2008									0	0.00	0	0.00	0	0.00	0	0.00
Other Customer Based Generation	2008									0	0.00	0	0.00	0	0.00	0	0.00
L														0	0.00	0	0.00
		2,305,144	772	2,834,247	1,100	4,752,611	1,944	10,687,740	4,875	5,840,054	2,371	12,127,341	5,296	12,897,808	5,087	25,649,329	11,271

Appendix 2 Foregone Revenue by Program and Rate Class

Table 3: Foregone Revenue by Class and Progra	<u>am</u>												****			1
		2005			2006				2007			1111	2008			
Class	Year	Rate per	Load Unit	kWh or	Rate per	Revenue	Load Unit	kWh or	Rate per	Revenue	Load Unit	kWh or	Rate per	Revenue	Total Revenue	
Program	Implemented	Unit		kW	Unit			kW	Unit			kW	Unit			
Third Tranche																l
RESIDENTIAL																
Energy Star Window Program	2005	0.0180	5,543	kWh	0.0167	\$94.37	5,543	kWh	0.0169	\$93.31	5,543	kWh	0.0198	\$104.39	\$292.07	
Water Heater Replacement Program	2007	0.0180									27,137	kWh	0.0198	\$358.21	\$358.21	
Lighten Your Electricity Bill	2005	0.0180	124,462	kWh	0.0167	\$2,118.96	124,462	kWh	0.0169	\$2,095.10	124,462	kWh	0.0198	\$2,344.03	\$6,558.09	
Cold Water Wash	2005	0.0180	42,987	kWh	0.0167	\$731.85	0	kWh	0.0169	\$0.00	0	kWh	0.0198	\$0.00	\$731.85	
CFL Education & Giveaway	2006	0.0180					35,692	kWh	0.0169	\$402.13	35,692	kWh	0.0198	\$672.20	\$1,074.32	
LED Seasonal Light Exchange Program	2006, 2007	0.0180					197,648	kWh	0.0169	\$2,226.83	468,398	kWh	0.0198	\$8,821.49	\$11,048.31	
Enviornmental Action Kits	2007, 2008	0.0180									311,040	kWh	0.0198	\$4,105.73	\$4,105.73	l
Energy Star Applicance Rebate Program	2007, 2008	0.0180									2,896	kWh	0.0198	\$38.23	\$38.23	L
																Ī
GENERAL SERVICE <50KW	2007	0.0124									122 621	LAA/b	0.0145	¢1 202 10	¢1 393 10	ŀ
Norfolk Power Facility Lighting Retrofit Program	2007	0.0134									132,631	kWh	0.0145	\$1,282.10	\$1,282.10	
GENERAL SERVICE >50KW																١
Energy Audits for Major Customers	2005 - 2006	3.7577	147.00	kW	2.9906	\$467.81	409.00	kW	3.0175	\$1,230.49	409.00	kW	3.8907	\$1,472.25	\$3,170.55	r
OPA Programs RESIDENTIAL																
	2006	0.0180	475,095	kWh	0.0167	\$8,088.50	475,095	kWh	0.0169	\$7,997.44	475,095	kWh	0.0198	\$8,947.63	\$25,033.56	
Every Kilowatt Counts (spring)		0.0180	-	kWh	0.0167		140,922	kWh	0.0169	\$2,372.18		kWh	0.0198	\$3,820.99	\$6,809.67	
Cool Savings Rebate Program	2006, 2007, 2008 2006	0.0180	36,211 19,450	kWh	0.0167	\$616.50	19,450	kWh		\$2,372.18	202,884	kWh	0.0198			
Secondary Fridge Retirement Pilot	2006	0.0180	770,749	kWh	0.0167	\$331.14 \$13,121.99	770,749	kWh	0.0169	\$12,974.27	19,450 770,749	kWh	0.0198	\$366.31 \$14,515.76	\$1,024.85 \$40,612.02	
very Kilowatt Counts (fall)	2007, 2008	0.0180	770,749	KVVII	0.0167	\$15,121.99			0.0169	\$1,263.16			0.0198	\$3,868.96	\$5,132.12	ı
reat Refrigerator Roundup	2007, 2008	0.0180					75,039 0	kWh kWh	0.0169 0.0169	\$1,263.16	205,432 0	kWh kWh	0.0198	\$3,868.96	\$5,132.12	I
boriginal – Pilot	2007	0.0180					457,961	kWh	0.0169	\$7,709.01		kWh	0.0198	\$8,520.34	\$16,229.35	l
very Kilowatt Counts		0.0180								\$0.00	452,407 0	kWh		\$0.00	\$16,229.33	ı
eaksaver®	2007, 2008						0	kWh	0.0169		_		0.0198		· ·	l
ummer Savings .ffordable Housing – Pilot	2007 2007	0.0180 0.0180					630,583 0	kWh kWh	0.0169 0.0169	\$10,614.82 \$0.00	630,583 0	kWh kWh	0.0198 0.0198	\$11,875.99 \$0.00	\$22,490.81 \$0.00	l
Social Housing – Pilot	2007	0.0180					5	kWh	0.0169	\$0.00	41,273	kWh	0.0198	\$777.31	\$777.39	l
Energy Efficiency Assistance for Houses – Pilot	2007	0.0180					0	kWh	0.0169	\$0.00	0	kWh	0.0198	\$0.00	\$0.00	
	2007	0.0180					U	KVVII	0.0103	\$0.00	0	kWh	0.0198	\$0.00	\$0.00	l
Aboriginal Summer Sweepstakes	2008	0.0180									0	kWh	0.0198	\$0.00	\$0.00	١
very Kilowatt Counts Power Savings Event	2008	0.0180									154,949	kWh	0.0198	\$2,918.21	\$2,918.21	١
very knowatt counts rower savings Event	2000	0.0100									134,343	KVVII	0.0156	72,310.21	72,310.21	ŀ
GENERAL SERVICE <50KW																l
Toronto Comprehensive	2007, 2008	0.0134					0	kWh	0.0117	\$0.00	0	kWh	0.0145	\$0.00	\$0.00	l
High Performance New Construction	2008	0.0134									824	kWh	0.0145	\$11.17	\$11.17	١
Power Savings Blitz	2008	0.0134									0	kWh	0.0145	\$0.00	\$0.00	l
Chiller Plant Re-Commissioning	2008	0.0134									0	kWh	0.0145	\$0.00	\$0.00	l
																Ļ
GENERAL SERVICE >50KW	2006 2627 2227	2 7	550	1,,,,	2.0000	44.7-0.00	046 = 0		20:	42 7	046.07	1111	2.022=	42.2=2.22	47 44	١
emand Response 1	2006, 2007, 2008	3.7577	553	kW	2.9906	\$1,758.98	910.78	kW	3.0175	\$2,740.13	910.87	kW	3.8907	\$3,278.80	\$7,777.91	١
Electricity Retrofit Incentive Program	2007, 2008	3.7577					24.79	kW	3.0175	\$74.60	24.98	kW	3.8907	\$89.91	\$164.52	١
Other Demand Response	2007, 2008	3.7577					75.76	kW	3.0175	\$227.91	83.82	kW	3.8907	\$301.72	\$529.64	١
Demand Response 3	2008	3.7577									229.10	kW	3.8907	\$824.68	\$824.70	١
UNMETERED SCATTERED LOAD																ŀ
Renewable Energy Standard Offer	2007, 2008	0.0134					0	kWh	0.0117	\$0.00	0	kWh	0.0155	\$0.00	\$0.00	١
LDC Custom	2007, 2008	0.0134					J	KVVII	0.011/	50.00	0.00	kWh	0.0155	\$0.00	\$0.00	١
Other Customer Based Generation	2008	0.0134									0.00	kWh	0.0155	\$0.00	\$0.00	١
Other Castoffer Dasea Generation	2000	0.0134									0.00	KVVII	0.0133	Ş0.00	JU.00	f

\$158,995.39

Appendix 3 LRAM Carrying Charges

	Annual	Opening Monthly	Carrying	Carrying
Month	Principal	Balance	Charge Rate	Charge (\$)
01-Jan-06		0	0.60%	0.00
01-Feb-06		2,278	0.60%	13.76
01-Mar-06		4,555	0.60%	27.52
01-Apr-06		6,833	0.35%	23.57
01-May-06		9,110	0.35%	31.43
01-Jun-06		11,388	0.35%	39.29
01-Jul-06		13,665	0.38%	52.27
01-Aug-06		15,943	0.38%	60.98
01-Sep-06		18,220	0.38%	69.69
01-Oct-06		20,498	0.38%	78.40
01-Nov-06		22,775	0.38%	87.11
01-Dec-06	27,330	25,053	0.38%	95.83
01-Jan-07		27,330	0.38%	104.54
01-Feb-07		31,693	0.38%	121.22
01-Mar-07		36,055	0.38%	137.91
01-Apr-07		40,417	0.38%	154.60
01-May-07		44,780	0.38%	171.28
01-Jun-07		49,142	0.38%	187.97
01-Jul-07		53,505	0.38%	204.65
01-Aug-07		57,867	0.38%	221.34
01-Sep-07		62,229	0.38%	238.03
01-Oct-07		66,592	0.43%	285.23
01-Nov-07		70,954	0.43%	303.92
01-Dec-07	79,679	75,317	0.43%	322.61
01-Jan-08		79,679	0.43%	341.29
01-Feb-08		86,289	0.43%	369.60
01-Mar-08		92,898	0.43%	397.91
01-Apr-08		99,508	0.34%	338.33
01-May-08		106,118	0.34%	360.80
01-Jun-08		112,727	0.34%	383.27
01-Jul-08		119,337	0.28%	333.15
01-Aug-08		125,947	0.28%	351.60
01-Sep-08		132,557	0.28%	370.05
01-Oct-08		139,166	0.28%	388.51
01-Nov-08		145,776	0.28%	406.96
01-Dec-08	158,995	152,386	0.28%	425.41
01-Jan-09		158,995	0.20%	324.62
01-Feb-09		158,995	0.20%	324.62
01-Mar-09		158,995	0.20%	324.62
01-Apr-09		158,995	0.08%	132.50
01-May-09		158,995	0.08%	132.50
01-Jun-09		158,995	0.08%	132.50
01-Jul-09		158,995	0.05%	72.87
01-Aug-09		158,995	0.05%	72.87
01-Sep-09		158,995	0.05%	72.87
01-Oct-09		158,995	0.05%	72.87
01-Nov-09		158,995	0.05%	72.87
01-Dec-09	158,995	158,995	0.05%	72.87
01-Jan-10	· · · · · · · · · · · · · · · · · · ·	158,995	0.05%	72.87
01-Feb-10		158,995	0.05%	72.87
01-Mar-10		158,995	0.05%	72.87
01-Apr-10		158,995	0.05%	72.87
Total		158,995		9,600.11

Norfolk Power Distribution Inc EB-2009-0238 Exhibit 1 Appendix 4

Exhibit 1

Appendix 4: EnerSpectrum LRAM / SSM Report



Norfolk Power Distribution Inc.

LRAM and SSM Support

October 19, 2009

Prepared by: Bart Burman, MBA, BA.Sc. P.Eng., Managing Partner

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- 2. Required
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- 10. Recommendations

Attachments

- a. Attachment A CDM Load Impacts by Class and Program
- b. Attachment B Foregone Revenue by Class and Program
- c. Attachment C SSM Amounts by Class and Program
- d. Attachment D LRAM and SSM Totals by Class

Appendices – LRAM and SSM Supporting Material

- f. Supporting Documentation for Third Tranche Programs
- g. OPA Sponsored Programs 2006 and 2007
- h. Guidelines for Electricity Distributor CDM EB-2008-0037
- i. NPDI OEB CDM Annual Reports
 - i. 2005 OEB CDM Annual Report
 - ii. 2006 OEB CDM Annual Report
 - iii. 2007 OEB CDM Annual Report
 - iv. 2008 OEB CDM Annual Report

1. Introduction

Norfolk Power Distribution Inc. (NPDI) serves approximately 31,500 Residential and General Service customers in Simcoe, Delhi and Nanticoke. The LDC delivered 10 Conservation and Demand Management (CDM) programs under the Third Tranche CDM funding and implemented an additional 16 Ontario Power Authority (OPA) provincial programs in 2007 and 2008. Through reported gross CDM expenditures of \$590,880 on Third Tranche and OPA initiatives, NPDI reported a positive net TRC return of \$534,744, energy savings of 2.01 million kWh, and reduced peak demand by more than 445 kW.

These CDM activities in the residential and industrial customer segments have resulted in foregone revenues of \$158,995.39 for NPDI as set out in the accompanying Attachments. Accordingly, the LDC seeks to remediate this lost revenue through Lost Revenue Adjustment Mechanism (LRAM). Additionally, NPDI also seeks to realize shared savings for its investments in CDM under the Shared Savings Mechanism (SSM) in the amount of \$42,361.91, as set out in the accompanying attachments.

The Ontario Energy Board (OEB) introduced the LRAM and SSM processes outlined in the March 28, 2008 Guidelines for Electricity Distributor Conservation and Demand Management EB-2008-0037) ("CDM Guidelines") for rate-based applications to recover revenues lost to customer energy conservation, and to share in gains from effective CDM programs prior to the completion of Third Tranche CDM programs.

LRAM calculations are made from the energy savings data from measured CDM program results, or other documented results as applied to the affected rate class. SSM is calculated as 5% of the net present value of the future net benefits from CDM investments. OPA sponsored programs, such as Every Kilowatt Counts, are not eligible for SSM because the OPA compensates LDCs through a contractual arrangement rather than the LDC recovering SSM amounts through rate riders. However OPA programs do represent the potential for lost revenue to the LDC, and may be claimed under LRAM.

The application for LRAM and SSM compensation that NPDI is considering as part of its 2010 IRM filing is based on its 2005 to 2008 inclusive CDM results.

2. Required

NPDI requested that EnerSpectrum Group support the preparation of the LDC's LRAM and SSM claim including finalized calculations and report. In completing the scope of work related to LRAM and SSM, EnerSpectrum Group committed to:

1. Review Third Tranche CDM Annual Report filings by NPDI, including Total Resource Cost (TRC) calculations and underlying data provided by the LDC.

- Prepare and finalize SSM and LRAM calculations and assumptions consistent with CDM Guidelines and suitable for inclusion in NPDI's 2010 IRM application, with supporting details.
- 3. Produce a report, recommendations, and supporting Attachments related to SSM and LRAM assessments.

3. About SSM/LRAM

The OEB issued GUIDELINES FOR ELECTRICITY DISTRIBUTOR CONSERVATION AND DEMAND MANAGEMENT, EB-2008-0037 were applied to prepare this LRAM/SSM application.

LRAM was calculated as the product of the demand/energy savings by customer class and the Board-approved variable distribution charge appropriate to each respective class (net of Regulatory Asset Recovery rate riders). OPA sponsored program kW/kWhs were deemed eligible for LRAM.

NPDI seeks to recover 5% of the net benefits (TRC) created by CDM portfolio investments. This SSM claim applies only to customer focused initiatives that reduce the demand for electricity and/or the amount of energy used. Programs designed to improve Distribution System efficiency (eg. loss reduction) and OPA sponsored programs (eg., Every Kilowatt Counts) were excluded from SSM considerations.

4. Methodology

To optimize the calculation of LRAM and SSM amounts, EnerSpectrum Group:

- Reviewed existing LRAM and SSM CDM Guidelines and precedents set through LDC submissions to the OEB, to identify the most prudent course for NPDI's LRAM and SSM applications.
- 2. Sought counsel within OEB staff to validate assumptions and processes to complete LRAM and SSM submissions consistent with other LDC submissions. Validation by each specific technology employed is included in the accompanying documentation.
- 3. Reviewed NPDI's CDM program results and TRC calculations, verified assumptions and calculations, identified variances with reported values, and recommended adjustments as appropriate to maintain consistency with the CDM Guidelines. Actual program results were provided by NPDI, including CDM Annual Reports, OPA program results reports, and supplemental information relevant to LRAM and SSM calculations
- 4. Prepared report and recommendations related to LRAM and SSM calculations consistent with OEB CDM Guidelines which are in the accompanying documentation.

5. Results

In assessing and applying results from CDM programming to TRC, LRAM or SSM calculations, program results were assumed to begin after the program has been implemented. For this reason, the results of specific programs have been staggered into subsequent months or years to more accurately reflect the timing of the impacts from CDM programs. Where the results from a CDM program were reasonably expected to begin flowing in the same year, LRAM calculations are prorated to the end of that year.

The results used in LRAM calculations for OPA sponsored programs are contained in the accompanying documentation under OPA Conservation Results, issued July 14, 2009.

The accompanying table below sets out the calculated amounts for LRAM and SSM for NPDI's Third Tranche and OPA CDM programming. The calculation of the results, by program and customer class as applicable, are explained in the text below, and detailed in the appended attachments.

	LRAM \$	SSM \$	Total
Third Tranche			
RESIDENTIAL	\$24,206.81	\$17,254.70	\$41,461.51
GENERAL SERVICE < 50kW	\$1,282.10	\$373.71	\$1,655.81
GENERAL SERVICE > 50kW	\$3,170.55	\$24,733.50	\$27,904.05
OPA Programs			
RESIDENTIAL	\$121,027.99		\$121,027.99
GENERAL SERVICE <50KW	\$11.17		\$11.17
GENERAL SERVICE >50KW	\$9,296.76		\$9,296.76
UNMETERED SCATTERED LOAD	\$0.00		\$0.00
	\$158,995.39	\$42,361.91	\$201,357.30

6. Determination of SSM Amount

For SSM, a distributor may recover 5% of the net benefits (TRC) created by CDM portfolio investments. As set out in the CDM Guidelines, program net benefits are determined by the present value of the avoided electricity costs over the technology's/program's life minus the

present value of program costs. All results are net of free ridership. Incentive payments identified by NPDI are excluded from these calculations. For all programs/projects, the OEB approved assumptions and measures list were used in TRC calculations in accordance with OEB's direction letter, Conservation and Demand Management ("CDM") Input Assumptions Board File No.: EB-2008-0352, January 27, 2009. Due to the timing of third tranche program decisions, OEB approved assumptions and measures lists published September 8, 2005 were applied in TRC and SSM calculations.

EnerSpectrum Group has validated applied TRC methodology against the CDM Guidelines (included in documentation) and calculated net TRC benefits for each CDM program. CDM incremental general administrative costs were included as part of overall portfolio TRC costs. EnerSpectrum Group's TRC Calculator © was used to ensure appropriate application of avoided costs, free ridership, discounted future benefits, and energy efficiency technology life.

Utility-side programs, such as NPDI's Distribution System Loss Reduction study in 2005, are not eligible for SSM treatment and was excluded from these calculations. Also excluded were results from OPA sponsored programs (e.g., Every Kilowatt Counts).

Programs considered for this application are described in annually submitted year-end CDM reports for 2,005, 2006, 2007 and 2008. For each eligible program, net load reductions were calculated (net of free ridership) for both SSM and LRAM calculations. Attachment A summarizes these load reductions.

For the purpose of TRC calculation to derive SSM, the applied discount rates for NPDI (approved Weighted Average Cost of Capital) were 8.57% (2005) 6.51 (2006), 6.51% (2007) and 7.19% (2008). The sum of all program NPVs, is \$847,238 resulting in the SSM claim of \$42,361.91. Attachment C summarizes the calculation of the SSM amounts by program and in total. Attachment E summarizes individual technology TRC (NPV) values by program. The supporting source data and TRC calculations are set out in detail in the documentation accompanying this report.

7. Determination of LRAM Amount

LRAM amounts were identified by rate class consistent with the CDM Guidelines for programs that impacted revenues from 2005 to 2008. No forecast or other adjustment for the effects of CDM programs was made to the load quantities used in the preparation of NPDI's rate cases in prior years. The entire actual load reduction achieved by the eligible Third Tranche CDM programs is subject to LRAM treatment. In addition, OPA sponsored programs, although ineligible for additional SSM incentives, represent lost revenue through their successful implementation and are included in LRAM calculations.

For all programs/projects, the load impacts were derived based on the most recently published OPA Assumptions and Measures list were used in LRAM calculations in accordance with OEB's

direction letter, Conservation and Demand Management ("CDM") Input Assumptions Board File No.: EB-2008-0352, January 27, 2009. This is also consistent with the precedent in the OEB Decision Order EB-2009-0192 October 8, 2009 (Horizon Utilities) that directed LRAM calculations use the most current available input assumptions for all CDM programs. Load impacts from third tranche programs were augmented by OPA results (Attachment A).

The sum of all program LRAM calculations, including OPA sponsored programs, is \$158,995.39.

Attachment B summarizes the CDM load impacts by program and rate class and the resultant revenue impacts.

8. Allocation and Manner of Recovery for SSM/LRAM Amounts

The SSM/LRAM amounts arising from CDM programs in each respective rate class are allocated to that class for recovery.

9. Conclusions

Overall, NPDI's expenditures on CDM programming were found to be cost-effective, returning a positive net TRC value for the CDM program technologies implemented. A review of LDC-originated CDM programs with NPDI verified that documentation exists to support participation levels associated with the LRAM and SSM calculation. Therefore the values applied to LRAM and SSM calculations are considered valid.

10. Recommendations

EnerSpectrum Group recommends the following:

- 1. SSM/LRAM amounts arising from CDM programs in each rate class be allocated to that class for recovery.
- 2. Incorporate impacts of CDM programming which occurred during the period 2005 to 2008 In future Cost of Service rate applications inclusive. This recognizes CDM as an established customer service element in the years ahead, with identifiable costs and benefits.
- 3. Use SSM calculation as one of the methods to assess the potential value of CDM programs considered for implementation.
- 4. Monitor OPA information and reports pursuant to its email of July 14, 2009 to all LDC conservation officers and program managers. The OPA stated that "2008 results are still preliminary and are subject to change" If final program results for NPDI subsequently change for any OPA program, updates or adjustments may need to be considered for the LRAM and SSM amounts calculated in this report. This report did not consider any OPA programs implemented or operated during 2009, as the results for these programs will not be available until sometime in 2010. Any savings attributed to 2009 for LRAM purposes are

based on assumed results carried over from OPA programs implemented in previous years only.

Program:	Cold Water Wash
Description:	Cold Water Washing (Detergent)
OPA Table Applied:	Residential
Element No.:	14
Number of Units:	92
EE Technology Life:	1
Start Year:	2005
Incremental Costs:	\$690.00
Discount Factor:	8.57%
LDC Costs:	\$250.00
Free Ridership Rate:	25%
TRC NPV:	\$1,801.03
Y/E CDM Reported TRC:	\$1,800.00
Difference:	-\$1.03
Reason for Difference:	

Program:	Energy Audits for Major Customers
Description:	Energy Audits
OPA Table Applied:	Direct Input
Element No.:	
Number of Units:	3
EE Technology Life:	5
Start Year:	2005
Incremental Costs:	
Discount Factor:	8.57%
LDC Costs:	\$25,192.00
Free Ridership Rate:	30%
TRC NPV:	\$220,113.62
Y/E CDM Reported TRC:	\$144,500.00
Difference:	\$75,613.62
Reason for Difference:	 Norfolk based their TRC on a forecaseted audits. Only 3 were actually completed. ESG based the TRC on 3. ESG used 147kW savings based on savings identified in the 2005 CDM filed report. ESG assumed a 5 year technology life. ESG assumed a 30% free ridership.

Program:	2005 Energy Star Window Program		
Description:	Energy Star Windows		
OPA Table Applied:	Direct Input		
Element No.:			
Number of Units:	185		
EE Technology Life:	25		
Start Year:	2005		
Incremental Costs:	\$6,000.00		
Discount Factor:	8.57%		
LDC Costs:	\$3,726.97		
Free Ridership Rate:	30%		
TRC NPV:	-\$1,465.37		
Y/E CDM Reported TRC:	\$5,800.00		
Difference:	-\$7,265.37		
Reason for Difference:	 ESG used assumptions made in "Energy Star Window Incentive Program Background data" Excel sheet. ESG assumed 30% free ridership rate. ESG used 8.57% discount factor. Norfolk used 6.5% 		

Program:	2005 Lighten Your Electricity Bill								
Description:	15W CFL	Outdoor Timer	Indoor Timer	Indoor Timer for AC	Pstat - Space Cooling	Pstat - Space Heating	Seasonal LED Xmas Lights - 5W	Seasonal LED Xmas Lights - Mini Lights	Summary TRC
OPA Table Applied:	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	
Element No.:	24	22	38 (new tables)	88 (new tables)	55	56	35	36	
Number of Units:	1,336	32	8	8	52	20	570	570	
EE Technology Life:	4	10	10	18	18	18	30	8	
Start Year:	2005	2005	2005	2005	2005	2005	2005	2005	2005
Incremental Costs:	\$2,404.80	\$576.00	\$144.00	\$432.00	\$2,808.00	\$1,080.00	\$1,083.00	\$1,026.00	\$9,553.80
Discount Factor:	8.57%	8.57%	8.57%	8.57%	8.57%	8.57%	8.57%	8.57%	8.57%
LDC Costs:	\$1,763.71	\$112.00							\$4,202.18
Free Ridership Rate:	10%	10%	10%	10%	10%	10%	5%	5%	
TRC NPV:	\$25,733.38	\$3,479.63	\$612.44	\$1,030.76	\$6,699.95	\$17,922.96	\$9,116.17	\$658.15	\$61,051.25
Y/E CDM Reported TRC:	\$25,700.00	\$7,100.00	\$1	,728.00	\$28,800.00 \$13,6		600.00		
Difference:	\$33.38	\$3,620.37	\$	84.80	\$4,177.09		\$3,825.69		
Reason for Difference:		1. Norfolk used	1. ESG used new O	EB tables as other	1. Used assumptions of 17.3% of total		Norfolk included both measures on one TRC		
		6.51% discount rate.	information was not available.		allocated to Space Heating and 45% Space		which ends up excluding free ridership rates.		
		ESG used 8.57%			Cooling based on same assumptions used in				
					2005 CDM filed Report.				
					Norfolk included both				
					TRC which ends up excluding free ridership				
					rates.				

Program:	2006 CFL Education & Giveaway
Description:	15W CFL
OPA Table Applied:	Residential
Element No.:	16
Number of Units:	918
EE Technology Life:	4
Start Year:	2006
Incremental Costs:	\$1,652.40
Discount Factor:	10.00%
LDC Costs:	\$4,097.49
Free Ridership Rate:	10%
TRC NPV:	\$15,551.95
Y/E CDM Reported TRC:	\$12,814.00
Difference:	\$2,737.95
Reason for Difference:	1. Norfolk included the cost of the lights
	in LDC Capital costs in addition to
	incremental equipment costs (double
	counted)

	2006 - Energy Audits for Major
Program:	Customers
Description:	Energy Audits
OPA Table Applied:	Direct Input
Element No.:	
Number of Units:	9
EE Technology Life:	5
Start Year:	2006
Incremental Costs:	
Discount Factor:	
LDC Costs:	\$10,336.81
Free Ridership Rate:	30%
TRC NPV:	\$318,525.64
Y/E CDM Reported TRC:	\$170,600.00
Difference:	\$147,925.64
Reason for Difference:	1. Norfolk based their TRC on a
	forecaseted 10 audits in 2005. ESG
	based the TRC on 9 audits that were
	completed in 2006.
	2. ESG used 262kW savings based on
	savings identified in the 2006 CDM filed
	report.
	3. ESG assumed a 5 year technology life.
	4. ESG assumed a 30% free ridership.

	2006 Led Seasonal Light Exchange
Program:	Program
Description:	5W Xmas Light
OPA Table Applied:	Residential
Element No.:	22
Number of Units:	3,650
EE Technology Life:	30
Start Year:	2006
Incremental Costs:	\$6,935.00
Discount Factor:	6.51%
LDC Costs:	\$1,102.40
Free Ridership Rate:	5%
TRC NPV:	\$76,253.34
Y/E CDM Reported TRC:	\$59,383.00
Difference:	\$16,870.34
Reason for Difference:	1. Norfolk included the cost of the lights
	in LDC Capital costs in addition to
	incremental equipment costs (double
	counted)

Program:	2007 Energy Star Qualifed Appliance Rebate Program				
Description:	Energy Star Dishwasher	Energy Star Freezer	Energy Star Fridges	Energy Star Front Load Washer	Summary TRC
OPA Table Applied:	Residential	Residential	Residential	Residential	
Element No.:	11	4	2	12	
Number of Units:	1	4	2	6	
EE Technology Life:	13	21	19	14	
Start Year:	2007	2007	2007	2007	
Incremental Costs:	\$90.00	\$720.00	\$126.00	\$1,080.00	\$2,016.00
Discount Factor:	6.51%	6.51%	6.51%	6.51%	
LDC Costs:					\$1,929.80
Free Ridership Rate:	10%	10%	10%	10%	
TRC NPV:	-\$28.63	-\$568.29	\$17.52	\$850.41	-\$1,658.79
Y/E CDM Reported TRC:					-\$1,784.00
Difference:					-\$125.21
Reason for Difference:					1. Norfolk included all
					technologies on one TRC

Program:	2007 Environmental Action Kits
Description:	15W CFL
OPA Table Applied:	Residential
Element No.:	16
Number of Units:	8,000
EE Technology Life:	4
Start Year:	2007
Incremental Costs:	\$14,400.00
Discount Factor:	6.51%
LDC Costs:	\$2,244.14
Free Ridership Rate:	10%
TRC NPV:	\$169,230.36
Y/E CDM Reported TRC:	\$143,483.00
Difference:	\$25,747.36
Reason for Difference:	1. Norfolk included the cost of the lights
	in LDC Capital costs in addition to
	incremental equipment costs (double
	counted)

Program:	2007 Norfolk Power Facility Lighting Retrofit Program				
Description:	2Lamp - T8 23W	4Lamp - T8 32W	Summary TRC		
OPA Table Applied:	Industrial	Industrial			
Element No.:	1	2			
Number of Units:	152	108			
EE Technology Life:	3	3			
Start Year:	2007	2007	2007		
Incremental Costs:	\$12,722.40	\$9,622.80	\$22,345.20		
Discount Factor:	6.51%	6.51%	6.51%		
LDC Costs:			\$1,820.01		
Free Ridership Rate:	10%	10%			
TRC NPV:	\$8,967.07	\$9,622.80	\$8,846.59		
Y/E CDM Reported TRC:			\$4,403.00		
Difference:			\$4,443.59		
Reason for Difference:			Norfolk included both measures on one TRC Norfolk included the cost of the lights in LDC Capital costs in addition to incremental equipment costs (double counted)		

	2007 Seasonal LED Light Exchange			
Program:	Program			
Description:	LED Christmas Lights - 5W			
OPA Table Applied:	Residential			
Element No.:	22			
Number of Units:	5,000			
EE Technology Life:	30			
Start Year:	2007			
Incremental Costs:	\$9,500.00			
Discount Factor:	6.51%			
LDC Costs:	\$1,113.56			
Free Ridership Rate:	5%			
TRC NPV:	\$104,152.26			
Y/E CDM Reported TRC:	\$88,146.00			
Difference:	\$16,006.26			
Reason for Difference:	1. Norfolk included the cost of the			
	lights in LDC Capital costs in addition			
	to incremental equipment costs			
	(double counted)			

	2007 Water Heater Replacement					
Program:	Program					
Description:	Upgrade Water Heaters					
OPA Table Applied:	Direct Input					
Element No.:						
Number of Units:	103					
EE Technology Life:	18					
Start Year:	2007					
Incremental Costs:	\$15,153.85					
Discount Factor:	6.51%					
LDC Costs:	\$3,029.11					
Free Ridership Rate:	30%					
TRC NPV:	\$7,328.42					
Y/E CDM Reported TRC:	\$8,467.00					
Difference:	\$1,138.58					
Reason for Difference:	1. ESG assumed a 30% free ridership					

Program:	2008 Energy Star Qualifed Appliance Rebate Program							
Description:	Energy Star Dishwasher	Energy Star Freezer	Energy Star Fridges	Energy Star Front Load Washer	Summary TRC			
OPA Table Applied:	Residential	Residential	Residential	Residential				
Element No.:	11	4	2	12				
Number of Units:	38	15	44	122				
EE Technology Life:	13	21	19	14				
Start Year:	2008	2008	2008	2008	2008			
Incremental Costs:	\$3,420.00	\$2,700.00	\$2,772.00	\$21,960.00	\$30,852.00			
Discount Factor:	7.19%	7.19%	7.19%	7.19%	7.19%			
LDC Costs:					\$30,852.00			
Free Ridership Rate:	10%	10%	10%	10%				
TRC NPV:	-\$1,120.32	-\$2,153.86	\$274.67	\$16,601.74	\$9,302.73			
Y/E CDM Reported TRC:					-\$4,374.00			
Difference:					\$4,928.73			
Reason for Difference:					1. Norfolk included all			
					technologies on one TRC			
					2. ESG used a discount rate			
					of 7.19%			
					3. Norfolk included costs of			
					rebates in OM&A costs			

2008 Environmental Action Kits				
CLF Giveaway 15W				
Residential				
16				
3,000				
4				
2008				
\$5,400.00				
7.19%				
\$5,224.19				
10%				
\$58,159.67				
\$49,424.00				
\$8,735.67				
1. Norfolk included the cost of the lights				
in LDC Capital costs in addition to				
incremental equipment costs (double				
counted) 2.				
ESG used 7.19% discount rate				

Norfolk Power Distribution Inc EB-2009-0238
Exhibit 2
Exhibit 2: Z Factor: Extraordinary Event – Severe Storm Damage, January 2007

Z Factor: Extraordinary Event – Severe Storm Damage, January 2007

Overview

In its 2008 rate application (EB-2007-0753) Norfolk Power Distribution Inc (NPDI) requested disposal of the balance in Account 1572 – Extraordinary Events, for amounts related to a severe winter storm which occurred in January 2007. In its decision the Board denied recovery but indicated an application would be entertained at a future date, if the Applicant chose to re-apply and provide additional evidence. NPDI hereby applies for approval to recover the amount recorded in its account 1572 as a Z Factor in its 2010 rate application over the period of one year, beginning on May 1, 2010.

The total amount requested for recovery is \$179,448, which includes \$164,235 of incremental expenses which were incurred as a direct result of the severe storm damage, which occurred January 14 2007. The incremental expenses have been reduced from the original 2008 application after scrutiny of accounts to ensure only incremental amounts are applied for. A summary followed by a detailed list of expenses is contained in Appendix A. An additional \$15,214 in carrying charges has been calculated based on the established OEB rates for deferral account carrying charges. Details of carrying charge calculations are listed in Appendix B.

Description of Event

On the evening of Sunday, January 14, 2007, an ice storm hit throughout the mid-west United States and south-central Ontario. A period of unseasonably warm January temperatures was followed by a storm system consisting of strong winds, freezing rain, snow, and a drop in temperatures. Ice as thick as 1" clung to trees, hydro poles, conductors and devices across the service territory. With most of its service territory bordering the northern shores of Lake Erie, a vulnerable spot for lake effect snow, Norfolk Power Distribution Inc experienced the full impact of the storm and resultant wide-spread outages. Of its approximately 18,500 customers 16,080 were without power, some for as long as 33 hours. In order to facilitate efficient restoration of power, NPDI utilized its own staff incurring heavy overtime. Also, given the extent of damage and cold weather, extra crews from neighboring utilities and external contractors were called to aid in the restoration. The customer service centre was inundated with calls from cold and frustrated customers, wanting to know when power would be restored. The below-freezing temperatures meant that anyone requiring electricity for heat was at risk. The County of Norfolk opened up emergency centers where people could get warm and have a hot

meal. Crews worked day and night for three days to restore power to the County as quickly and efficiently as possible. This was followed by an additional week to clean up the aftermath of the storm including tree trimming and damaged plant replacement.

Z-Factor Eligibility Criteria

The following analysis and report identifies that the amount applied for meets the regulatory principles of causation, materiality, and prudence and should be therefore included in the 2010 approved rates for NPDI.

Causation

The costs NPDI is requesting for recovery are directly attributable to the repairs required due to the ice storm on January 14 2007. If the storm had not occurred, these repairs would not have been required. While mild storm damage does occur from time to time, the scope of damage and necessary repairs of this one storm exceeded the usual level of storm damage expense NPDI incurs in entire year. NPDI tracks storm damage repair costs in a separate maintenance sub-account and have summarized these expenses for the previous 4 years.

Table 1: Annual Storm Damage Summary

	2003	2004	2005	2006	2007
Non-Extraordinary Storm Damage	\$54,607	\$32,368	\$54,667	\$97,012	\$81,303
Extraordinary Storm Damage					164,235
Total Storm Damage	\$54,607	\$32,368	\$54,667	\$97,012	\$245,538

In addition, the amount of damage incurred exceeds the amount of storm damage expenses included in NPDI's rates. The rates established in the 2006 EDR included \$32,369 for storm damage repair expenses. This was part of the overall maintenance expense of \$747,613 and total Distribution Expenses before PILS of \$6,253,598.

Materiality

Using the Board's materiality threshold of 0.5% of the Revenue Requirement for materiality of extraordinary event costs results in a materiality level of \$53,429 (0.5% of \$10,685,794 revenue requirement for 2006 EDR base year). With incremental costs totaling \$164,235, the Storm exceeds the materiality threshold determined by the Board.

Prudence

As a matter of public safety, NPDI took the necessary measures to restore power to its 16,080 interrupted customers as quickly and efficiently as possible. After surveying the damage and identifying that 90% of its customers were without power in the cold winter, NPDI developed an action plan to restore power as quickly as possible. This meant overtime hours for its own staff as well as bringing in crews from neighbouring LDC's and external contractors to aid in the power restoration process. Calling on contractors NPDI has used in the past (because of their relatively low cost, proximity to the service area, and knowledge of the service area) was the most economical and reasonable solution after making full use of its own staff.

Historical Expenditures on Storm Damage Repairs

Historical expenditures for storm damage repairs consists of costs related to several small storms throughout the year and are recorded in account 5100 – Storm Damage. This may typically include damage from lightning, wind, freezing rain, snow and other weather-related damage repairs that were completed as a direct result of weather induced outage. In addition, larger storms are also allocated their own sub-account number to further aid in cost tracking and analysis. As part of the annual audit the balances in the Storm Repair account each year has been reviewed by NPDI's external auditors. The storm damage related to Jan 14 2007 has been the only storm to warrant recording the expenses in Account 1572.

Table 2: Details of Historical Storm Expenses

	2003	2004	2005	2006	2007
Regular Labour (hours)	114.50	96.50	169.50	470.50	771.50
Overtime Labour (hours)	41.50	277.00	496.00	639.50	532.25
	5 504	0.044	7.500	04.005	0.4.0.40
Regular Labour (cost in \$)	5,531	3,944	7,508	21,095	34,640
Overtime Labour (cost in \$)	2,338	14,615	26,500	36,196	31,480
Equipment Charges	2,410	5,125	9,295	15,380	13,570
Materials	3,517	5,616	10,672	13,225	19,679
Contractor & Other Expenses _	40,811	3,068	692	11,116	146,169
TOTAL	\$54,607	\$32,368	\$54,667	\$97,012	\$245,538

Using the "Z Factor" criteria, Norfolk Power is only claiming incremental costs relating to the January 2007 Storm repairs. This means that only unscheduled overtime, costs of contractors not normally required, and special meal and accommodation allowances for staff & contractors are included in the total amount claimed under 1572. Normal operating costs (such as regular labour hours, materials, and equipment charges) were included in the maintenance account for storm damage repairs and/or capitalized based on their nature. Appendix A contains the full details of the expenses.

Recovery

Consistent with the Decision by the Board EB-2007-0514 NPDI requests to allocate the expenses to the classes based on distribution revenue. For this purpose 2008 actual volume data has been used as it is the data underpinning the current distribution rates. NPDI proposes to recover approved amounts on the basis of volumetric charges. The rate riders have been included in the OEB 2010 IRM3 Rate Generator Model and are part of the customer impact analysis contained therein and described in the Manager's Summary of the 2010 IRM application.

Table 3: Proposed Rate Riders

Customer Class	Distribution Revenue	Allocation Percentage	Allocation Dollars	Determinant	Billed kWh / kW	Proposed Volumetric Rate Rider (\$)
Residential	\$7,039,603	61.5%	\$110,339	kWh	140,646,761	0.000785
GS < 50 kW	2,147,442	18.8%	33,659	kWh	63,223,253	0.000532
GS > 50 kW	2,052,053	17.9%	32,164	kW	361,081	0.089077
Unmetered	22,413	0.2%	351	kWh	361,353	0.000972
Sentinel	42,004	0.4%	658	kW	818	0.804858
Street Light	145,220	1.3%	2,276	kW	9,279	0.245305
Total	\$11,448,735	100.0%	\$179,448			

Appendix A Z-Factors Amounts to Be Recovered

2007 Ice Storm Incremental Expense		<u>\$164,234.76</u>
Less: Non-Incremental Trucks & Equipment	(4)	(\$ 8,630.00)
Less: Non-Incremental internal labour	(1)	(\$28,884.13)
Adjustments:		
Total Costs Relating to Jan. 15 th Ice Storm		\$201,748.89
Special Accommodations & Meal Allowances	(5)	2,063.41
Trucks & Equipment	(4)	8,630.00
LDC's and Outside Contractors	(3)	132,269.55
Materials	(2)	11,102.15
Internal Labour	(1)	\$47,683.78

Appendix A con't

ITEM (1) – NPDI LABOUR DETAILS

Total Regular Labour	651 hours	\$28,884.13
Total Overtime Labour	325 hours	<u>18,799.65</u>
Total Labour Relating on Stor	\$47,683.78	
Less: Regular Labour deemed	(\$28,884.13)	
Total Incremental Labour C	osts	<u>\$18,799.65</u>

Hours O/T Worked for Storm	Mon Jan 15	Tues Jan 16	Wed Jan 17	Thurs Jan 18	Fri Jan 19	Sat Jan 20	Sun Jan 21	Mon Jan 22	Tue Jan 23	Wed Jan 24	Thur Jan 25	Fri Jan 26	TOTAL by Category
Management	26.50	41.50	4.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.00
Office Staff	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
Operations	87.00	111.00	56.50	7.00	3.00	8.00	0.00	0.00	0.00	0.00	0.00	2.00	274.50
TOTALS	120.25	152.50	60.50	7.00	3.00	8.00	0.00	0.00	0.00	0.00	0.00	2.00	353.25

ITEM (2) - MATERIALS

Materials used in the restoration efforts were as follows:

Various Hardware & Supplies (nuts, bolts, etc)	\$ 1,497.24
Overhead Conductors & Devices	6,556.78
Overhead Wires	3,048.13
Total Materials Used	<u>\$11,102.15</u>

ITEM (3) - Local LDC's and Other Contractor Costs

Brant County Power - Crews & Equipment for power restoration	\$ 3,340.00
Brantford Power - Crews & Equipment for power restoration	1,637.87
Erie Thames Services - K-Line ~ Crews & Equipment for power restoration	2,719.48
K-Line Construction - Crews & Equipment for power restoration	100,609.70
Oakhill Tree Service - Crews & Equipment for emergency tree trimming	23,962.50
Total Amounts Paid to LDC's and Outside Contractors	\$132,269.55

Appendix A con't

ITEM (4) - Trucks & Equipment

Pick-Up Trucks & Vans	204.50 hours used	\$2,045.00
Bucket Trucks & Work Platforms	219.50 hours used	<u>\$6,585.00</u>
Total Charges for Trucks & Equipment		<u>\$8,630.00</u>

The trucks & equipment charges indicated above are largely indirect expenses, arising from charges allocated on an hourly basis and therefore have been removed from Account 1572.

Adjusted Trucks & Equipment Used (excludes non-incremental)	<u>\$ 0.00</u>
ITEM (5) ~ Special Meals & Accommodations	
Meals - K-Line Staff	\$ 289.80
Accommodations - K-Line Staff	148.69
Overtime Meals - NPDI Staff	1,440.12
Accommodations - NPDI Staff	184.80
Total Amounts Paid for Special Meals & Accommodations	\$2,063.41

Appendix B Z Factor - Carrying Charges

Carrying Charge			
Month	Principal Balance	Rate	Carrying Charge (\$)
01-Mar-07	\$164,234.76	0.38%	\$628.20
01-Apr-07	164,234.76	0.38%	\$628.20
01-May-07	164,234.76	0.38%	\$628.20
01-Jun-07	164,234.76	0.38%	\$628.20
01-Jul-07	164,234.76	0.38%	\$628.20
01-Aug-07	164,234.76	0.38%	\$628.20
01-Sep-07	164,234.76	0.38%	\$628.20
01-Oct-07	164,234.76	0.43%	\$703.47
01-Nov-07	164,234.76	0.43%	\$703.47
01-Dec-07	164,234.76	0.43%	\$703.47
01-Jan-08	164,234.76	0.43%	\$703.47
01-Feb-08	164,234.76	0.43%	\$703.47
01-Mar-08	164,234.76	0.43%	\$703.47
01-Apr-08	164,234.76	0.34%	\$558.40
01-May-08	164,234.76	0.34%	\$558.40
01-Jun-08	164,234.76	0.34%	\$558.40
01-Jul-08	164,234.76	0.28%	\$458.49
1-Aug-08	164,234.76	0.28%	\$458.49
01-Sep-08	164,234.76	0.28%	\$458.49
01-Oct-08	164,234.76	0.28%	\$458.49
01-Nov-08	164,234.76	0.28%	\$458.49
01-Dec-08	164,234.76	0.28%	\$458.49
)1-Jan-09	164,234.76	0.20%	\$335.31
)1-Feb-09	164,234.76	0.20%	\$335.31
1-Mar-09	164,234.76	0.20%	\$335.31
)1-Apr-09	164,234.76	0.08%	\$136.86
1-May-09	164,234.76	0.08%	\$136.86
01-Jun-09	164,234.76	0.08%	\$136.86
)1-Jul-09	164,234.76	0.05%	\$75.27
)1-Aug-09	164,234.76	0.05%	\$75.27
01-Sep-09	164,234.76	0.05%	\$75.27
1-Oct-09	164,234.76	0.05%	\$75.27
1-Nov-09	164,234.76	0.05%	\$75.27
01-Dec-09	164,234.76	0.05%	\$75.27
01-Jan-10	164,234.76	0.05%	\$75.27
01-Feb-10	164,234.76	0.05%	\$75.27
01-Mar-10	164,234.76	0.05%	\$75.27
01-Apr-10	164,234.76	0.05%	\$75.27

Total 164,234.76 15,213.61 179,448.37