

Oakville Hydro
Electricity Distribution Inc.
P. O. Box 1900
861 Redwood Square
Oakville ON L6J 5E3

Telephone: 905-825-9400 Fax: 905-825-5831 email: hydro@oakvillehydro.com

www.oakvillehydro.com

April 3, 2012

Kirsten Walli Board Secretary Ontario Energy Board, 2300 Yonge St. Suite 2700, P.O. Box 2319 Toronto, Ontario M4P 1E4

Dear Ms. Walli:

Re: Oakville Hydro Electricity Distribution Inc. Smart Meter Cost Recovery Application

Please find accompanying this letter, two copies of Oakville Hydro Electricity Distribution Inc.'s Application for approving or fixing just and reasonable rates with respect to Smart Meters effective May 1, 2012. Should there be any questions, please contact me at the number below.

Respectfully Submitted,

Maryanne Wilson

Manager, Regulatory Affairs

Oakville Hydro Electricity Distribution Inc.

861 Redwood Square

Oakville, ON L6J 5E3

Telephone- (905) 825-4422

Email- mwilson@oakvillehydro.com

Maryane Welson

Oakville Hydro Electricity Distribution Inc.

Smart Meter Prudence Application

Filed: April 3, 2012

IN THE MATTER OF the Ontario Energy Board

Act, 1998, being Schedule B to the Energy

Competition Act, 1998, S.O. 1998, c.15;

AND IN THE MATTER OF an Application by

Oakville Hydro Electricity Distribution Inc. to the

Ontario Energy Board for an Order or Orders

approving or fixing just and reasonable rates with

respect to Smart Meters as of May 1, 2012.

Applicant's Name: Oakville Hydro Electricity Distribution Inc.

Applicant's Address: 861 Redwood Square,

Oakville, Ontario

L6J 5E3

Contact Information: Jim Collins

CFO, Vice President Corporate and Regulatory Affairs

Phone: 905-825-4444

JCollins@oakvillehydro.com

Table of Contents

Manager's Summary3
Program Status5
Procurement5
Smart Meter Pilot Project5
Smart Meter Procurement
Capital and OM&A Costs
Capital Costs
Capital Costs Related to Minimum Functionality
Operations, Maintenance and Administration ("OM&A") Costs
OM&A Costs Related to Minimum Functionality
Other AMI Costs
Forecasted OM&A Costs
Expenditures beyond Minimum Functionality
Capital21
OM&A21
Reduced Operating Costs
Stranded Meters
Variance Analysis
Additional Evidence24
Smart Meter Disposition Rider Calculation
Smart Meter Incremental Revenue Requirement Rider Calculation
Bill Impacts
Conclusion
Appendix A - Letter from the Fairness Commissioner
Appendix B - Smart Meter and Time-of-Use Communications
Appendix C - Smart Meter Cost Recovery Model

Manager's Summary

Oakville Hydro Electricity Distribution Inc. (Oakville Hydro) is a corporation incorporated

pursuant to the Ontario Business Corporations Act with its head office in the Town of Oakville.

Oakville Hydro carries on the business of distributing electricity within the Town of Oakville.

On December 15, 2011, the Ontario Energy Board (the "Board") issued an update of the

Guideline G-2008-0002, Smart Meter Funding and Cost Recovery. The updated version is

entitled Guideline G-2011-0001, Smart Meter Funding and Cost Recovery - Final Disposition

(the "Guideline"). The Guideline outlines the information that the Board expects electricity

distributors to file regarding applications for final prudence review of smart meter costs. On

December 15, 2011 the Board also issued an updated Smart Meter Model, version 2.17. Oakville

Hydro has prepared its Application in accordance with the Board's Guideline and the revised

Smart Meter Model version 2.1.7.

In this Smart Meter Prudence Application (the "Application"), Oakville Hydro hereby applies to

the Ontario Energy Board (the "Board") for the following:

a) The Board's determination that all Smart Meter capital of \$10,131,152 and operating

expenditures of \$1,106,201 to December 31, 2011 are prudent;

b) The addition of Smart Meter Disposition Rate Riders ("SMDRs") for its Residential and

General Service customers effective May 1, 2012 to return the deferred revenue

requirement for the installed meters through to December 31, 2011;

c) The approval of Smart Meter Incremental Revenue Requirement Rate Riders

("SMIRRs") for its Residential and General Service customers effective May 1, 2012 to

recover the incremental change in distribution rates that would have occurred if the

assets and operating expenses were incorporated into Oakville Hydro's rate base and

revenue requirement;

d) Approval for the continuation of Oakville Hydro's approved funding of \$1.69 per

installed meter as a SMIRR in the event that there is a delay in the approval of Oakville

Hydro's request for a SMIRR by April 30, 2012. Oakville Hydro is seeking the approval

of this request due to the timing of this Application. Oakville Hydro's year-end audit

was finalized in mid-March and was approved by the Board of Directors on March 29, 2012. In accordance with the Board's letter regarding the updates to the Guideline G-2008-0002 Smart Meter Funding and Cost Recovery and Smart Meter Model, dated December 15, 2011, this Application is being submitted at Oakville Hydro's earliest opportunity following the availability of audited costs.

Oakville Hydro is seeking approval for the total smart meter costs of \$12.0 million as set out in the following table.

Table 1

Summary of Smart Meter Cost Claim							
Total Smart Meter Capital Costs	\$ 10,331,152						
Total Smart Meter OM&A Costs	\$ 1,691,349						
Total Smart Meter Costs	\$ 12,022,501						

In 2007 the Board approved a Smart Meter Funding Adder ("SMFA") of \$0.27 per metered customer (EB-2007-0563). In its 2009 IRM application, the Board approved Oakville request for an increase in the Smart Meter Rate Adder from the existing \$0.27 per metered, to the standard Smart Meter Funding Adder of \$1.00 per metered customer (EB-2008-0203). In 2010, as part of Oakville Hydro's cost of service application, the SMFA was revised to \$1.69 per metered customer.

In accordance with the Guideline, Oakville Hydro is now seeking approval for separate rate riders for its Residential and General Services < 50 kW customers. The table below summarizes the impact of the current and requested rate adders and riders on customers.

Page 5 of 42

Table 2

Summary of Rate Riders and Rate Adders										
	Res	idential	GS	< 50 kW						
Discontinuation of the Smart meter Funding Adder	\$	(1.69)	\$	(1.69)						
Smart Meter Disposition Rate Rider (SMDR)	\$	(0.21)	\$	(0.57)						
Smart Meter Incremental Revenue Rate Rider (SMIRR)	\$	2.49	\$	7.25						
Impact of the Smart Meter Rate Riders	\$	0.59	\$	4.99						

Program Status

Oakville Hydro has completed the installation of smart meters for its Residential and General Service <50 kW customers. Oakville Hydro has installed 58,720 Residential smart meters and 5.014 General Service <50 kW customers.

Procurement

Smart Meter Pilot Project

On October 24, 2006, Oakville Hydro submitted a proposal for approval to implement a pilot project involving TOU electricity prices and eligible TOU meters for certain condominium residents that had recently changed from bulk metering to individual metering (EB-2006-0306). The proposal included an independent evaluation of the project results as well as a commitment to share the results of the proposed pilot project with the Board. The Board approved the pilot on December 1, 2006 on the condition that Oakville Hydro consult Board staff before the independent analysis was carried out in order to ensure consistency with the analytical approach being used by the Board and that Oakville Hydro agree to share the results from the proposed pilot project.

Over the course of the pilot, residents in three condominium buildings in Oakville changed from bulk metering with billing based on the overall building consumption to individual metering and billing under RPP tiered prices and subsequently to individual metering and billing under RPP

Oakville Hydro Electricity Distribution Inc.

Smart Meter Prudence Application Submitted: April 3, 2012

Page 6 of 42

Time-of-Use ("TOU") prices. In total across the three buildings, 286 residents participated in the

pilot.

In November 2007, Oakville Hydro engaged the services of Navigant Consulting to conduct an

independent review of the smart meter pilot project. The report summarized the design,

operation and outcomes of the Oakville Smart Metering and TOU pricing pilot study undertaken

from January 2006 through the end of October 2007. On April 3, 2008, Oakville Hydro filed the

Navigant report with the Board. The costs associated with this study are included in this

Application.

Smart Meter Procurement

London RFP

Oakville Hydro is authorized to procure and deploy smart meters under O. Reg. 427/08 and

pursuant to the London Hydro RFP process. The first step in the deployment process was

selection of an appropriate metering technology. Along with a consortium of Local

Distribution Companies ("LDCs"), Oakville Hydro participated in the London Hydro RFP

process. In 2009, Oakville Hydro concluded negotiations with its number one ranked

proponent, KTI/Sensus Ltd. The negotiations and contract award were undertaken in

accordance with the principles for such negotiations and contract award set out in the

Advanced Metering Infrastructure RFP, issued August 14, 2007. A copy of the confirmation

letter from the Fairness Commissioner is provided in Appendix A as evidence of

procurement compliance.

In the agreement, Sensus agreed to perform site selection survey and propagation analysis to

determine the regional collector sites, perform project management of collector siting and

installation, and complete Advanced Metering Infrastructure ("AMI") network tuning, which

establishes the meter communication configuration between the Smart Meter and collectors.

This is required for effective communication within an AMI system, thus adhering to the

meter data transfer requirements of an AMI system.

Submitted: April 3, 2012

Page 7 of 42

Operational Data Store

Oakville Hydro sought the services of an Operational Data Store ("ODS") for the purposes of

housing, processing, and validating the large amounts of meter data characteristic of an AMI

system. Through a procurement process, Savage Data Systems was selected as the preferred

proponent for Oakville Hydro in 2009.

Project Management

Oakville Hydro also retained the services of Util-Assist to assist in the management of its

AMI implementation. Util-Assist is a Canadian owned and operated consulting firm with

extensive experience dealing with AMI technologies in a cost effective manner. Util-Assist

was also involved with the London RFP process, fully demonstrating competency with, and

understanding of AMI technologies. This prompted Oakville Hydro to utilize their services

and experience to ensure a smooth transition to AMI. Today, Util-Assist continues to assist

Oakville Hydro in optimizing its business practices as the AMI environment continually

changes.

• Smart Meter Installation

In 2009, Oakville Hydro assessed its internal resources, their expertise and their current

workload and concluded that, due to the number of meters to be installed and the timeframe

for installation, it required external resources for the installation. In 2009, Oakville Hydro

issued an RFP and subsequently entered into a contract with Olameter Inc. to install its

Residential meters. The agreement with Olameter included the project management and

installation of single phase Residential, non-transformer rated smart meters beginning on

October 5, 2009 and ending in August 2010. Olameter deployment averaged approximately

1,200 residential meter installations per week, allowing Oakville Hydro to complete the mass

deployment of all residential installations in less than one year. To date, Oakville Hydro has

installed 58,720 Residential smart meters.

In 2010, Oakville Hydro entered into an agreement with Rodan Energy ("Rodan") to install

polyphase meters for its General Service < 50 kW customers. Rodan was selected as the

Submitted: April 3, 2012

Page 8 of 42

preferred proponent subsequent to an RFP process. The installation of these commercial

meters began in June 2010 and was completed in August 2011. To date, Oakville Hydro has

installed 5,014 smart meters for its General Service <50 kW customers.

As the mass deployment of meters began, Oakville Hydro and Sensus were constantly

working towards optimizing the AMI network communications. The original Sensus

propagation study for Oakville Hydro's AMI network included three regional collectors.

However, during the network tuning process Oakville Hydro worked with Sensus to establish

a meter read success rate of 98%, the minimal permitted success rate according to the

agreement between both parties. After extensive effort, it became evident that two additional

collectors were required in order to obtain the minimum amount of daily meter reads. Sensus

installed the two additional collectors without additional costs to Oakville Hydro as per a

clause in their agreement. Through the continual network tuning process required to

establish acceptable AMI communications, it became evident to Oakville that maintaining a

success rate of 98% will be an enduring challenge as Oakville's population continues to

grow, as more meters are installed in Oakville, and as commercial customers are added to

Oakville's AMI network.

As Oakville Hydro's network began to stabilize and the appropriate meter readings were

successfully being transmitted through the AMI network, efforts began to focus on the

validity of the meter data to permit the transition from meter readers to automated meter

reading. This first step in this process was the audit of the AMI data for a sample group of

customers. Beginning in October 2010, Oakville Hydro began an audit of meter data

received through the new AMI Network for various customer groups, totaling nearly 15,000

customers. The audit compared the data received through the AMI network against the

manual meter readings that were provided by Olameter staff, who were still actively reading

meters in the field. Once Oakville Hydro was satisfied that the meter data was correct after

months of auditing and monitoring, the decision to commence the reduction of meter reading

was put into effect, beginning in March 2011. This was a major milestone in the deployment

of Oakville Hydro's AMI network.

Submitted: April 3, 2012

Page 9 of 42

Shortly thereafter, Oakville Hydro began testing with the Independent Electricity System

Operator's ("IESO's") MDM/R. The testing and cutover to the MDM/R production

environment began in September 2010 and was officially completed in January 2011. This

process required extensive systems testing and software upgrades prior to the formal

enrolment of meters in the MDM/R. Oakville Hydro successfully rolled out its smart meter

implementation plan enabling it to begin TOU billing by its mandated TOU implementation

date of July 2011.

• Security Audit

In accordance with paragraph 2.11.1 of the AMI functional specification, which requires that

the AMI have security features to prevent unauthorized access to the AMI and meter data to

ensure authentication to all AMI elements, Oakville Hydro took the necessary steps to protect

AMI and metered data.

During the process of network deployment and network stabilization, challenges related to

the Security and Privacy of data flowing through the AMI system began to emerge. After a

customer complaint initiated a formal investigation into Oakville Hydro's AMI network by

the Information and Privacy Commissioner of Ontario ("IPC") dated March 31, 2010,

Oakville Hydro conducted internal Privacy Impact Assessments ("PIA") to ensure that all

customer information was sufficiently protected. The outcome drove the requirement to

change internal business process with respect to privacy and security, improve components

of the Billing System, and implement encryption of meter data flowing from meter to the

collectors. Oakville Hydro implemented all changes suggested, which closed the IPC

inquiry. The rollout of encryption was the first initiative of its kind in North America. The

rollout of encryption began with several small pilot groups in February 2011. Once a

comfort level was established the encrypted meter data was communicating effectively with

the collectors, incremental pilot groups were also encrypted until Oakville's entire residential

smart meter population was encrypted by June 2011.

Oakville Hydro partnered with a consortium of LDCs to complete an end-to-end security

audit of its Sensus AMI system in July 2010. The consortium completed an RFP in October

Submitted: April 3, 2012

Page 10 of 42

of 2010, whereby the group selected its preferred auditor. The audit is intended to span two

full years and evaluate the security of the Sensus AMI system from meter to Advanced Meter

Collector Computer (AMCC). Oakville Hydro is working with the auditor, Sensus, and the

consortium to address any security concerns raised through the audit process.

Capital and OM&A Costs

The Guideline states that the Board expects that 90% or more of the total program costs for

which a distributor is seeking recovery will be audited. As of December 31, 2010 Oakville

Hydro incurred 77% of the total program costs. Oakville Hydro's Board of Directors have

approved the Financial Statements for the year ended December 31, 2011 and it is expected that

the audited financial statements will be released in April 2012 at which time 93% of the program

costs will have been audited. Oakville Hydro requests that the Board accept this Application on

the basis that Oakville Hydro's audited costs will have exceeded 90% of the total program costs

prior to the approval of its Application. Should there be any change to Oakville Hydro's audited

program costs as a result of subsequent events prior to the approval of this Application; Oakville

Hydro will file the revised costs with the Board.

Capital Costs

Oakville Hydro will incur total costs of \$10,331,152 or \$162.10 per meter. Oakville Hydro's

audited capital costs as at December 31, 2011 were \$10,131,152. Oakville Hydro estimates that

it will incur additional, incremental capital costs of \$200,000 in 2012. As shown in the table

below, the per meter cost is considered to be favourable to the sector average as reported in the

Sector Market Meter Audit Review Report issued by the Regulatory Audit and Accounting group

of the Board on March 31, 2010.

Table 3

Capital Cost Per Meter									
	Oakville Hydro	Audit Review							
Capital Expenditures	\$10,331,152	\$570,339,200							
Meters Installed	63,734	3,053,931							
Cost Per Meter	\$162.10	\$186.76							

The following table provides a breakdown of Oakville Hydro's forecast and actual capital spending by year. The majority of Oakville Hydro's capital expenditures relate to minimum functionality.

Table 4

Capital Costs												
		2009		2010		2011		otal Audited Expenditures		2012 and Later	Forecasted Expenditures	% of Total
Smart Meters	\$	924,190	\$	5,781,693	\$	1,058,039	\$	7,763,922	\$	-	\$ 7,763,922	75.2%
Smart Meter Installation		4,761		884,191		289,044		1,177,995		-	1,177,995	11.4%
Workforce Automation		4,109		63,444		1,824		69,378		-	69,378	0.7%
Regional Collectors		416,390		99,796		36,049		552,235		-	552,235	5.3%
Advanced Metering Control Systems		132,983		-		-		132,983		-	132,983	1.3%
AMI Interface to CIS		-		38,137		-		38,137		-	38,137	0.4%
Program Management		43,111		68,659		50,061		161,831		-	161,831	1.6%
Other AMI Capital		-		86,488		120,277		206,766		-	206,766	2.0%
Total Capital Costs Related to Minimum Functionality		1,525,544		7,022,409		1,555,293		10,103,247		-	10,103,247	97.8%
Capital Costs Beyond Minimum Functionality		-		-		27,905		27,905		200,000	227,905	2.2%
Total Capital Costs	\$	1,525,544	\$	7,022,409	\$	1,583,198	\$	10,131,152	\$	200,000	\$ 10,331,152	100.0%

Capital Costs Related to Minimum Functionality

Oakville Hydro has incurred actual incremental capital costs of \$10,131,152 in relation to the minimum functionality of its AMI as at December 31, 2011.

Submitted: April 3, 2012

Page 12 of 42

AMI Capital

Of Oakville Hydro's total incremental capital costs of \$10,103,247 related to minimum

functionality, \$9,896,481 relate to the purchase and installation costs for Residential and

General Service smart meters, the regional collectors and the AMCC. The remaining

\$206,766 relates to Other AMI Capital and is detailed in the following section.

• Other AMI Capital

Oakville Hydro incurred incremental capital costs of \$206,766 for Advanced Metering

Control Computer functionality as depicted in the Smart Metering System Diagram in the

Board's Guideline. This system is referred to as an Operational Data Store ("ODS") in the

diagram on the following page and classified as Other AMI Capital in the preceding table.

The implementation of Smart Metering has resulted in an extremely high volume of interval

data. In order to manage this data effectively, Oakville Hydro contracted with a third party,

Kinetiq / Savage Data Systems to manage its ODS. The ODS stores, validates and processes

large volumes of data, for billing, settlements and other reporting and reconciliation

obligations. Oakville Hydro considers this functionality to be critical to the success of the

smart meter implementation plan.

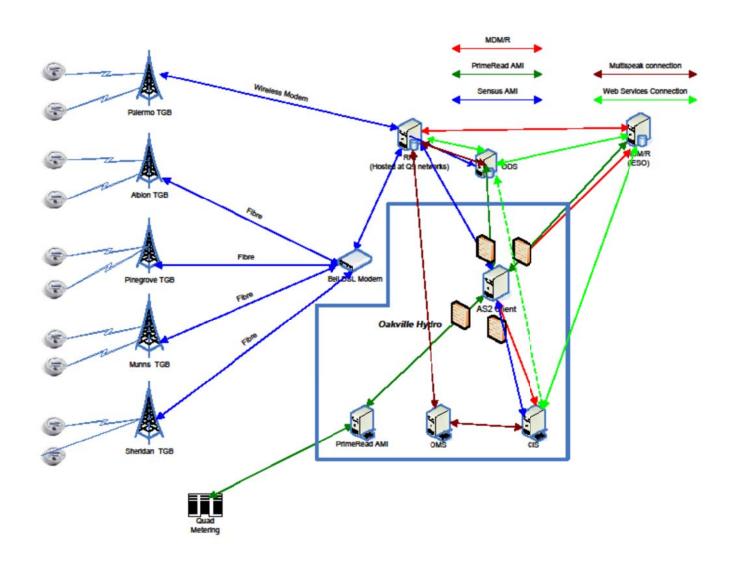
In addition, the MDM/R performs validation, estimation and editing rules and bill

determinant calculations for TOU pricing. Currently, the operational scope of the MDM/R is

limited to residential and general service < 50 kW customers metered on a single channel.

Oakville Hydro has a number of general service < 50 kW with multiple channels of data for

which Oakville Hydro requires an ODS.



Page 14 of 42

Operations, Maintenance and Administration ("OM&A") Costs

Oakville Hydro has incurred cumulative incremental OM&A costs of \$1,106,201 for the deployment of smart meters and the rollout of Time-of-Use ("TOU") billing as at December 31, 2011. Oakville Hydro estimates that it will incur additional incremental OM&A costs of \$585,147 in 2012 and subsequent years. Forecast and actual costs are broken down by year and by OEB category in the following table.

Table 5

OM&A Costs													
		2007		2008		2009		2010		2011		2012 and Later	Total
Regional Collectors	\$	-	\$	-	\$	-	\$	91,701	\$	122,393	\$	138,775	\$ 352,869
Advanced Metering Control Maintenance		76,232		20,811		50,169		38,153		51,806		127,848	365,018
Wide Area Network		13,601		43,148		33,541		18,654		7,582		-	116,526
Business Process Redesign		-		-		-		763		28,146		143,480	172,389
Customer Communication		-		-		43,884		7,485		-		-	51,369
Program Management		-		24,041		28,365		52,135		4,126		-	108,667
Change Management		-		-		-		2,475		-		-	2,475
Administration Costs		-		-		6,810		-		-		-	6,810
Other AMI Costs		-		-		3,393		18,870		12,509		116,794	151,565
OM&A Costs Related to Minimum Functionality		89,833		88,000		166,161		230,236		226,561		526,897	1,327,688
OM&A Above Minimum Functionality		-		-		-		147,811		157,599		58,250	363,660
Total OM&A Costs	\$	89,833	\$	88,000	\$	166,161	\$	378,048	\$	384,159	\$	585,147	\$ 1,691,349
Cumulatvie OM&A Costs	\$	89,833	\$ 1	177,833	\$	343,994	\$	722,042	\$	1,106,201	\$	1,691,349	

OM&A Costs Related to Minimum Functionality

Of the total incremental OM&S costs incurred, \$800,791 is related to the minimum functionality of its AMI as at December 31, 2011 and \$305,410 is related to functionality that is considered to be beyond minimum functionality but critical to the success of the smart meter rollout. The costs are broken down by category in the following table.

Table 6

Actual OM & Costs	
As at December 31, 2011	
Regional Collectors	\$ 214,094
Advanced Metering Control Maintenance	237,171
Wide Area Network	116,526
Business Process Redesign	28,909
Customer Communication	51,369
Program Management	108,667
Change Management	2,475
Administration Costs	6,810
Other AMI Costs	34,771
OM&A Costs Related to Minimum Functionality	800,791
OM&A Above Minimum Functionality	305,410
Total OM&A Costs	\$ 1,106,201

• Introduction - Smart Meter Deployment

In order to successfully roll out the smart meter deployment and TOU billing, Oakville Hydro engaged the required incremental resources. In 2007, Oakville Hydro created a new position of Information Technology Analyst in order to research data communications requirements for smart meter reading and allocated 50 per cent of the incremental costs to the Smart Meter implementation. A resource from the meter department was also dedicated to the project in 2007 and was backfilled by the hiring of an apprentice Meter Reading Technician.

In 2009, Oakville Hydro created a new position for an AMI Analyst and placed the internal staff member that was partially devoted to the position of Information Technology Analyst to work fulltime on the Smart Meter implementation project. The Information Technology Analyst position was filled by a contractor to ensure that Oakville Hydro's Information Technology Department continued to function normally without interruption. In addition,

Oakville Hydro Electricity Distribution Inc.

Smart Meter Prudence Review

Submitted: April 3, 2012

Page 16 of 42

Oakville Hydro re-assigned an incremental employee to the Position of Project Manager to

manage the Smart Meter implementation project. This employee had been hired in 2009 to

assist with its 2010 Cost of Service Application. The 2009 costs for this employee were

included in Oakville Hydro's one-time costs in its 2010 application and amortized over four

years. In 2009, this employee was transferred and dedicated to the smart meter project. The

incremental costs for this employee above the amortized costs included in the 2010 cost of

service application have been included in this Application.

One of the challenges that Oakville Hydro encountered in its smart meter rollout project was

the requirement to beta-test software. Additional testing was required to provide full

encryption of smart meter data from customer homes to the regional collectors. This was

required as a result of a concern regarding Smart Meter security that was filed with the IPC

by one of Oakville Hydro's customers. In response, Oakville Hydro worked closely with the

Commissioner's office and conducted a privacy impact assessment to ensure that it had

implemented best practices for securing smart meter data. This included the implementation

of encryption of smart meter data from customer homes to the regional collectors as

recommended by the Commissioner's office. The implementation of full encryption of smart

meter data complicated the roll out of smart meters by necessitating additional software

upgrades in the Advanced Metering Control Computer ("AMCC") and within the meters.

Being the first distributor to implement full encryption, additional software testing was

required. Oakville Hydro did not incur additional costs from its vendor for implementation

of encryption however, this placed an increased burden on Oakville Hydro's staff to conduct

the software testing.

Regional Collectors and Wide Area Network

Oakville Hydro has incurred incremental OM&A costs of \$214,094 for third party support

for its collectors and incremental costs \$116,526 for new data and phone lines required to

monitor and capture reads for the smart meters. These costs will be ongoing.

Submitted: April 3, 2012

Page 17 of 42

Advanced Metering Control Maintenance

Oakville Hydro incurred incremental OM&A costs of \$237,171 for the setup and testing of

its AMCC. The majority of the OM&A costs recorded in this category relate to incremental

employee costs.

Business Process Redesign

Oakville Hydro incurred incremental costs of \$28,909 in relation to business process

redesign. In 2011, Oakville Hydro contracted a third party to assist with a review of its

meter-to-cash process, concentrating mainly on its Metering Solutions Department post smart

meter implementation. Some of the findings of the review recommended that Oakville Hydro

initiate a process improvement project to improve its processes, ensure data integrity and

recover lost efficiencies as a result of the smart meter implementation. Oakville Hydro is

undertaking to complete this project in 2012.

Smart Meter Communications

Oakville Hydro incurred incremental OM&A costs of \$51,369 in relation to its Smart Meter

Communications Strategy. This amount does not include the incremental costs associated

with TOU communications; this has been included in the OM&A costs above minimum

functionality and is discussed on page 20, Expenditures Beyond Minimum Functionality.

Before Smart Meter installations began, Residential and General Service < 50 kW customers

received a door hanger, Your Smart Meter is Coming Soon - Appendix B, Figure 1 to inform

them that they were going to receive their new Smart Meter in the near future. To further

notify customers, an advertisement containing the same information as the postcard, ran in

Oakville's local newspapers. In addition to advertisements and door hangers, Olameter hand

delivered the Get Smart About Smart Meters Answer Book to Residential customers

containing detailed information about Smart Meters provided by the province when they

installed the smart meter.

Prior to and throughout the Smart Meter implementation, Oakville Hydro participated in a

variety of community events. The events provided an effective opportunity to educate and

Submitted: April 3, 2012

Page 18 of 42

inform the community about Smart Meters and TOU, answer questions and provide take-

home materials. The Province's Get Smart About Smart Meters Answer Book was distributed

at a variety of community events.

Postcards entitled Your New Smart Meter Arrives Today - Appendix B, Figure 2 were

delivered to Residential customers when Smart Meter installations began. Door hangers

entitled Sorry we missed you! We were here to install your Smart Meter - Appendix B,

Figure 3 was left on doors of homes that were unable to have their Smart Meter installed. It

provided contact information and instructions for customers to follow to book a Smart Meter

installation appointment. Similarly, General Service < 50 kW customers received an

information package containing a postcard entitled Your Smart Meter Arrived Today.

In addition to customer education, keeping Oakville Hydro employees informed and

educated was important to the success of the smart meter rollout. Prior to the rollout of Smart

Meters, Oakville Hydro engaged Util-Assist, a Canadian consulting firm, to train Oakville

Hydro employees. Attendees were educated on a variety of topics, including why Smart

Meters were being implemented, the benefits of TOU and the impact that TOU rates will

have on customers.

Program Management, Change Management and Administration Costs

Oakville Hydro incurred operating costs of \$117,952 related to program management,

change management and administration costs. Of these costs \$33,437 relate to the London

RFP process and a Time-of-Use Pricing Pilot Project Evaluation prepared by an independent

third party and on Oakville Hydro's TOU pilot project (EB-2006-0306).

Other AMI Costs

Oakville Hydro incurred incremental OM&A costs of \$34,771 associated with the setup and

testing of its ODS detailed in Other AMI capital.

Submitted: April 3, 2012

Page 19 of 42

Forecasted OM&A Costs

Oakville Hydro estimates that it will incur incremental normalized OM&A costs of \$585,147 in

2012. Of these costs, it is estimated that \$383,417 will be associated with the incremental costs

for third party support for the monthly monitoring of its collectors, AMCC, and ODS and for

incremental employee costs. Oakville Hydro has allocated a portion of the costs of a contract

position of Project Consultant in its Information Technology department to assist both internal

staff and third party service providers in administering the AMI system. In addition, a contract

position will be created to provide additional support for the existing Information Technology

Analyst so that this person can assist with the smart meter project.

It is estimated that Oakville Hydro will incur incremental costs of \$143,480 for the

implementation of Oakville Hydro's Business Process Redesign project in 2012. It was Oakville

Hydro's position that a process review would be completed once the implementation of the

Smart Meters was completed, and it had sufficient opportunity to develop an understanding of

the requirements as a direct result of this implementation. In 2011, Oakville Hydro's initial step

to the business process redesign was to have a third party assist in a review of its business

processes with respect to post smart meter implementation. The smart meter initiative presents an

opportunity for processes to be improved by reducing manual effort and inefficiencies which

were implemented to fill the gaps created by the initial implementation process. Currently

additional time, effort and resources are required to address problems and issues which arose

from the requirement to make the new systems (i.e. AMI, MDM/R), fit into the existing

framework. The many manual work-arounds required to support the AMI that have created lost

efficiencies rather than eliminating them.

In 2012, Oakville Hydro is addressing the above noted business processes improvements. This is

a vital project that will require a significant amount of time and resources to ensure the proper

redesign is achieved.

This Business Process Redesign will consist of third party support for consulting and project

management. Oakville Hydro has reassigned an internal staff member, with extensive industry

Submitted: April 3, 2012

Page 20 of 42

knowledge, on a full time basis to the project. This staff member's accountabilities will be

covered by reassigning duties to two individuals on an acting management basis for which only

the incremental costs are included. The smart meter project manager will continue to be

involved in the project. Another existing staff member, experienced in process mapping, will

devote a portion of their time to assist with the project. The incremental costs of hiring a

contract position to perform the duties of this staff member have been included in this

Application. Only incremental costs have been included in this Application.

It is estimated that Oakville Hydro will incur additional incremental expenditures of \$58,250 for

third party support for MDM/R integration, Customer Information System ("CIS") exceptions,

security audits and project management support and for the incremental staffing costs for

continued TOU communications.

Expenditures beyond Minimum Functionality

Oakville Hydro has not included any costs for technical capabilities beyond the minimum

functionality as defined in O.Reg 425/06, Criteria and Requirements for Meters and Metering

Equipment, Systems and Technology, or for the installation of smart meters to customers other

than Residential and General Service < 50 kW customers. Oakville Hydro has not included the

actual or projected costs for the use of the MDM/R in this Application.

Oakville Hydro has incurred incremental costs associated with TOU rate implementation, CIS

upgrades, web presentation and integration with the MDM/R. As shown in Tables 4 and 5,

Oakville Hydro incurred capital costs of \$27,905 and OM&A costs of \$305,410 for expenditures

beyond minimum functionality. These expenditures, and their justifications, are described in

detail below. While these costs are defined as being beyond minimum functionality, Oakville

Hydro strongly believes that these functions are critical for a successful roll out of smart meters

and TOU billing and requests approval for the recovery of these costs.

Submitted: April 3, 2012

Page 21 of 42

Capital

CIS Upgrades, TOU Billing & Integration with the MDM/R

Oakville Hydro incurred incremental capital costs of \$27,905 for upgrades to its CIS and for

web presentment. In 2010, Oakville Hydro had budgeted for capital expenditures associated

with MDM/R Integration. However, in accordance with Board directives, Oakville Hydro

excluded these costs from its 2010 Cost of Service application and is seeking recovery for

these costs in this Application.

Oakville Hydro estimates that it will incur incremental capital costs of \$200,000 in the year

2012 to complete the required upgrades to Oakville Hydro's CIS. Oakville Hydro has

included these costs in the calculation of its SMIRR.

OM&A

CIS Upgrades and MDM/R Integration

The total OM&A of \$305,410 includes incremental OM&A costs of \$77,486 related to TOU

billing, integration with the MDM/R and upgrades to its CIS. These costs were related

primarily to incremental costs of Oakville Hydro's AMI Analyst and Project Manager

directly related to the testing of CIS upgrades and the integration of the CIS with the

MDM/R.

• Time-of-Use Communications

Oakville Hydro incurred incremental costs of \$227,924 related to the development and

delivery of its TOU Communications strategy. In 2010, Oakville Hydro engaged a third

party consultant to develop and deliver its TOU communication strategy. Oakville Hydro

developed a comprehensive communications strategy aimed at both customer and employee

education.

In October 2010, Oakville Hydro's third party consultant conducted a TOU Billing Survey.

This survey included both Oakville Hydro's employees and Oakville Hydro's customers.

Submitted: April 3, 2012

Page 22 of 42

Participants were asked a variety of questions related to TOU pricing in order to obtain the

following:

• customer and employee understanding of TOU billing and its impact on Residential

energy use;

• customer knowledge gaps for TOU rates, factors influencing customers' energy use and

preferred sources of non-billing information;

• benchmark customer and employee data about TOU billing;

• elements to be included in TOU and Smart Meter communication plans; and

• results that could be used to assess the success of the campaign.

Results of the survey helped shape the TOU communications strategy by identifying areas

that Oakville Hydro should focus on, including: ensuring clear messaging when explaining

TOU and TOU billing, clearly articulating the TOU billing start date and rollout plan,

offering customers conservation and energy saving tips, keeping the Oakville Hydro website

updated with TOU information and distributing direct mail pieces with TOU information to

customers. Oakville Hydro believes that this preliminary step of assessing the

communication needs of its customers and employees enabled it to gain the greatest value

from its investment in TOU communications. Some of Oakville Hydro's key initiatives are

described in the following paragraphs.

In February 2011, Oakville Hydro developed and hand delivered postcards to customers

featuring it's How Smart Are You? tagline. The postcard included a link to Oakville Hydro's

website for more information and included TOU hourly clocks for easy reference. A copy

of the post card is provided as Appendix B, Figure 4.

As a follow-up to the postcards, bill inserts entitled Get Smart About TOU Rates, Appendix

B – Figure 5, containing TOU and Smart Meter implementation information were sent to all

customers. Beginning in March 2011, letters were also sent to all customers to inform them

that TOU rates were beginning, providing them with helpful links and contact information.

A copy of the letter is provided as Appendix B – Figure 6.

Oakville Hydro Electricity Distribution Inc.

Smart Meter Prudence Review

Submitted: April 3, 2012

In May 2011, Oakville Hydro hired a new contract person as a TOU Communications

Coordinator to assist the Customer Services Department with the anticipated increase in calls

and questions from customers and to assist with the rollout of Oakville Hydro's

communication strategy.

Once per month from of May to August 2011, Oakville Hydro ran an advertisement in local

newspapers that focused on Oakville Hydro's commitment to ensuring that customers fully

understand TOU and are given the tools they need to conserve energy. A copy of the

advertisement entitled, Message from Oakville Hydro, is included as Appendix B – Figure 7.

In November and December of 2011, Oakville Hydro delivered a bill insert to its Residential

and General Service < 50 kW customers with additional information on TOU pricing and

instructions for viewing TOU information on Oakville Hydro's web presentment tool.

Upon completion of its communications plan, Oakville Hydro polled its customers and found

that the majority of callers understood TOU pricing. Oakville Hydro's training enabled its

employees to respond to customer requests for information in a knowledgeable and

meaningful way.

Reduced Operating Costs

The Guideline requires that distributors provide evidence on operational efficiencies and cost

savings that result from smart meter implementation. In its 2010 cost of service process,

Oakville Hydro anticipated and budgeted operational savings related to the reduction of

traditional, home to home, meter reading expenses with the activation of remote meter reading

through the AMI network. However, the tuning process took longer than anticipated and

Oakville Hydro continued to incur a portion of those costs to read the smart meters manually.

Page 23 of 42

Submitted: April 3, 2012

Page 24 of 42

Stranded Meters

In accordance with the Guidelines, Oakville Hydro is not requesting approval for recovery of its

stranded meters as part of this Application. Oakville Hydro will leave the stranded meters in its

rate base until its next Cost of Service Application.

Variance Analysis

The Guideline requires that distributors include a variance analysis comparing actual costs to

previously approved costs if applicable. While Oakville Hydro has applied to the Board for

approval of a SMFA, it has not applied to the Board for approval of its smart meter costs prior to

this Application and therefore has not included a variance analysis comparing actual costs to

previously approved costs in this Application.

Additional Evidence

Smart Meter Disposition Rider Calculation

In keeping with the Guideline, Oakville Hydro has directly allocated class specific costs where

reliable data is available. For costs that cannot be directly allocated by rate class, Oakville

Hydro has allocated the costs on the basis of the number of installed smart meters. Also in

keeping with the Guideline, Smart Meter Funding Adder revenues for General Service > 50 kW

rate classes have been allocated equally to the revenues collected from the Residential and

General Service < 50 kW classes.

Oakville Hydro proposes that the deferred incremental revenue requirement for the Residential

and General Service < 50 kW rate classes be disposed of as detailed in Table 7 below. Oakville

Hydro proposes a two-year disposition to coincide with its planned cost of service application for

rates effective May 1, 2014. The number of metered customers is based upon Oakville Hydro's

forecast of the average number of metered customers in 2012.

Page 25 of 42

Table 7

Smart Meter Actual Cost Recovery Rate Rider - SMDR Calculated by Rate Class										
Allocators	Total	Residential	GS < 50							
Average Smart Meter Unit Cost	\$ 140.30	\$ 114.82	\$ 438.69							
Smart Meter Cost	\$8,941,917	\$6,742,347	\$2,199,570							
Allocation of Smart Meter Costs	100.00%	75.40%	24.60%							
Number of meters installed	63,734	58,720	5,014							
Percentage of meters installed	100.00%	92.13%	7.87%							
Total Return (deemed interest plus										
return on equity)	\$1,040,018	\$ 784,190	\$ 255,828							
Amortization	\$1,139,463	\$ 859,173	\$ 280,290							
OM&A	\$1,106,201	\$1,019,176	\$ 87,026							
Carrying Charges	\$ 26,816	\$ 24,706	\$ 2,110							
Total Before PILs	\$3,312,498	\$2,687,245	\$ 625,253							
PILs	\$ 108,827	\$ 88,286	\$ 20,542							
Total Revenue Requirement 2006 to 2011	\$3,421,326	\$2,775,531	\$ 645,795							
	100.00%	81.12%	18.88%							
Smart Meter Rate Adder Revenues	(\$3,645,357)	(\$3,312,395)	(\$332,962)							
Carrying Charge	(\$131,304)	(\$118,026)	(\$13,278)							
Smart Meter True-up	(\$355,335)	(\$288,263)	(\$67,071)							
Metered Customers	62,675	57,777	4,898							
Rate Rider to Recover Smart Meter Costs - 2 yrs	\$ (0.24)	\$ (0.21)	\$ (0.57)							

Smart Meter Incremental Revenue Requirement Rider Calculation

Oakville Hydro is requesting approval for the recovery of the revenue requirement associated with the Smart Meter capital and OM&A costs as at December 31, 2011 through a SMIRR effective May 1, 2012 and continuing until its next cost of service application. Oakville Hydro proposes that the smart meter incremental revenue requirement for the Residential and General Service < 50 kW rate classes be allocated as detailed in Table 8 below.

Table 8

Smart Meter Actual Cost Recovery Rate Rider - SMIRR Calculated by Rate Class									
Allocators		Total	Re	esidential	(GS < 50			
Average Smart Meter Costs	\$	140.30	\$	114.82	\$	438.69			
Smart Meter Cost	\$8	,941,917	\$6	5,742,347	\$2	2,199,570			
Allocaiton of Smart Meter Costs		100.00%		75.40%		24.60%			
Number of meters installed		63,734		58,720		5,014			
Percentage of meters installed		100.00%		92.13%		7.87%			
Total Return (deemed interest plus									
return on equity)	\$	641,439	\$	483,655	\$	157,784			
Amortization	\$	809,304	\$	610,228	\$	199,076			
OM&A	\$	585,147	\$	539,113	\$	46,034			
Total Before PILs	\$2	,035,889	\$1	,632,996	\$	402,894			
PILs	\$	118,786	\$	95,279	\$	23,507			
Total Revenue Requirement 2012	\$2	,154,675	\$1	,728,274	\$	426,401			
Metered Customers		62,675		57,777		4,898			
Rate Rider to Recover Smart Meter Costs	\$	2.86	\$	2.49	\$	7.25			

Bill Impacts

As shown in the table below, the discontinuation of the current SMFA and the approval of the proposed SMDR and SMIRR will result in a total bill increase of 0.57 or 0.032% for residential customers and 4.51 or 1.69% for GS < 50 kW customers.

Table 9

Total Bill Impacts									
	Residential	(800 kWh	GS <50	kW (2000					
	per mo	onth)	kWh per month)						
	Rate (\$)	Charge (\$)	Rate (\$)	Charge (\$)					
Energy First Tier (kWh)	0.07	44.21	0.07	44.21					
Energy Second Tier (kWh)	0.08	17.23	0.08	103.35					
Sub-Total: Energy		61.43		147.56					
Service Charge	13.10	13.10	32.20	32.20					
Service Charge Rate Rider(s)	1.69	1.69	1.69	1.68					
Distribution Volumetric Rate	0.0143	11.44	0.0141	28.20					
Low Voltage Volumetric Rate	0.0002	0.16	0.0002	0.40					
Distribution Volumetric Rate Rider(s)	(0.0037)	(2.96)	(0.0039)	(7.80)					
Total: Distribution		23.43		54.68					
Network Service Rate	0.0065	5.20	0.0060	12.45					
Line and Transformation Connection Service Rate	0.0046	3.68	0.0042	8.72					
Total: Retail Transmission		84.86		202.24					
Sub-Total: Delivery		108.29		256.92					
Wholesale Market Service Rate	0.0052	4.16	0.0052	10.79					
Rural Rate Protection Charge	0.0013	1.04	0.0013	2.70					
Standard Supply Service – Administration Charge	0.25	0.25	0.25	0.25					
Sub-Total: Regulatory		5.45		13.74					
Debt Retirement Charge (DRC)	0.0007	0.56	0.0070	14.00					
Total Bill before Taxes		175.73		261.59					
HST	13%	22.85	13%	34.01					
Total Bill		198.58		295.59					
Ontario Clean Energy Benefit (OCEB)	-10%	(19.86)	-10%	(29.56)					
Total Bill (less OCEB)		178.72		266.03					
Expiry of Smart Meter Rate Adder		(1.69)		(1.69)					
Proposed Smart Meter Dispostion Rate Rider		(0.21)		(0.57)					
Proposed Smart Meter Rate Rider		2.49		7.25					
Impact of Smart Meter Rate Adder and Rate Riders		0.59		4.99					
Ontario Clean Energy Benefit (OCEB)		(0.06)		(0.50)					
Total Bill		179.26		270.53					
Change		0.54		4.49					
Total Bill Impact		0.30%		1.69%					

Submitted: April 3, 2012

Page 28 of 42

Conclusion

Oakville respectfully submits that the costs incurred to fulfill its obligations under the

provincially mandated Smart Meter Initiative were and continue to be necessary and prudently

incurred in accordance with Board guidelines. As referenced in Table 3, Oakville Hydro's cost

per meter compares favourably to the provincial average and the associated bill impacts are

minimal. Oakville Hydro respectfully requests approval for the following:

a) The Board's determination that all Smart Meter capital of \$10,331,152 and operating

expenditures of \$585,147 to December 31, 2011 are prudent;

b) The approval of Smart Meter Disposition Rate Riders ("SMDRs") for its Residential

and General Service customers effective May 1, 2012 to return the deferred revenue

requirement for the installed meters up to December 31, 2011;

c) The addition of Smart Meter Incremental Revenue Requirement Rate Riders

("SMIRRs") for its Residential and General Service customers effective May 1, 2012 to

recover the incremental change in distribution rates that would have occurred if the

assets and operating expenses were incorporated into Oakville Hydro's rate base and

revenue requirement;

d) Approval for the continuation of Oakville Hydro's approved funding of \$1.69 per

installed meter as a SMIRR in the event that there is a delay in the approval of Oakville

Hydro's request for a SMIRR by April 30, 2012. Oakville Hydro is seeking the approval

of this request due to the timing of this Application. Oakville Hydro's year-end audit

was finalized in mid-March and was approved by the Board of Directors on March 29,

2012. In accordance with the Board's letter regarding the updates to the Guideline G-

2008-0002 Smart Meter Funding and Cost Recovery and Smart Meter Model, dated

December 15, 2011, this Application is being submitted at Oakville Hydro's earliest

opportunity following the availability of audited costs.

All of which is respectfully submitted this 3rd day of April, 2012.

OAKVILLE HYDRO ELECTRICITY DISTRIBUTION INC.

Original Signed By	
Jim Collins	
CFO, VP, Corporate and Regulatory Affairs	

Oakville Hydro Electricity Distribution Inc. Smart Meter Prudence Review Submitted: April 3, 2012 Page 30 of 42

Appendix A - Letter from the Fairness Commissioner



PRP International, Inc.

Fairness Advisory Services

June 30, 2009

Mr. Alex Bystrin
President & CEO
Oakville Hydro Electricity Distribution Inc.
861 Redwood Square,
Oakville, ON L6L 5E3

Dear Mr. Bystrin:

Subject:

Confirmation of the Fairness Commissioner Oakville Hydro Electricity Distribution Inc. – KTI/Sensus Limited Contract Award

Advanced Metering Infrastructure RFP, August 2007

London Hydro & Consortium of LDCs Smartmetering Project

PRP International, Inc. is pleased to submit its Confirming Letter of the Fairness Commissioner for the noted negotiations and contracting phase of the LH AMI Request for Proposal (RFP) procurement. This judgment is being provided for the information and use of Oakville Hydro Electricity Distribution Inc. ("OHEDI"), in its administration of the contract awarded to its #1 ranked Proponent, KTI/Sensus Limited.

"It is the judgment of PRP International, Inc., as the Fairness Commissioner engaged by OHEDI for the phase of negotiations and contract award pursuant to the Fairness Protocols issued August 2008, that the successful conclusion of negotiations and contract between Oakville Hydro Electricity Distribution Inc. and KTI/Sensus Limited, were undertaken in accordance with the principle for such negotiations and contract award set out in the RFP, issued August 14, 2007."

A backgrounder and summary of the Fairness Protocols is attached and forms part of this Confirming Letter.

Yours truly,

Peter Sorensen President

Attachment: Negotiations and Contract Phase Backgrounder

203 - 8 Queen Street, Summerside, PEI C1N 0A6 Direct telephone: 902.436.3930 Fax: 604-677-5409 Email: fairness@telus.net

BACKGROUNDER TO FAIRNESS CONFIRMATION / ATTESTATION Advanced Metering Infrastructure Procurement

TO WHOM IT MAY CONCERN:

Background:

- A Request for Proposal procurement transaction was conducted by London Hydro Inc., as the lead sponsoring Local Distribution Company (LDC) and with a consortia of another 63 LDCs, during the period August 2007 to July, 2008;
- The evaluation and selection phase of the RFP provided for the determination of the #1 and #2 ranked Proponents for each LDC;
- RFP Provision 7.5.14¹ provides the framework (principle) for negotiations
 and contracting based on the principle of "first right to negotiation and
 execution of a contract" being accorded to the ranked order of
 Proponents commencing with the highest ranked Proponent and
 proceeding in a consecutive order thereafter; and
- Each LDC was provided the evaluation results for their #1 and #2 ranked Proponents supported by the Attestation Letter of the Fairness Commissioner as to those rankings.

Fairness Coverage Objective:

Normally, fairness coverage terminates with the determination of the ranked Proponents following the evaluation and selection phase of the RFP; however, certain LDCs expressed a wish to secure additional fairness coverage during the subsequent phase of negotiations and contract award. The objective for this second phase fairness coverage is to assure that LDCs undertook a phase of negotiations and contracting that meets the RFP provisions of consecutive negotiations where required, e.g. with their top two ranked Proponents and in the event of unsuccessful negotiations with the #1 ranked Proponent, a subsequent contract award to the next ranked Proponent would be on an equitable basis as was the requirements in the negotiations with the #1 ranked Proponent.

7.5.14 Final Contract Negotiations

Any conditions and provisions that a bidder seeks shall be a part of this proposal. Notwithstanding, nothing herein shall be interpreted to prohibit London Hydro from introducing or modifying contract terms and conditions during negotiation of the final contract.

London Hydro has scheduled no more than two weeks for contract negotiations (if necessary), and expects the successful bidder to maintain a prompt and responsive negotiation to accomplish and complete final contract agreement within that time period. If contract negotiations exceed an interval acceptable to London Hydro, London Hydro retains the option to terminate negotiations and continue to the next apparent successful bidder, at the sole discretion of London Hydro. Said interval shall in no event be less than three weeks.

BACKGROUNDER TO FAIRNESS CONFIRMATION / ATTESTATION Advanced Metering Infrastructure Procurement

Fairness Protocols:

- A Fairness Protocol was developed and issued to all LDCs, in August 2008 that set forth the best practices for fair consecutive-based negotiations and contract award.
 - The fundamental principle of the Protocol was the requirement for the LDC to establish the negotiations agenda for their top ranked Proponents and submit a copy to the Fairness Commissioner prior to engagement of their #1 ranked Proponent, i.e. the agenda would demonstrate a common statement of work, a LDC standard for pass/fail in their negotiations and the negotiation issues would only differ to the extent of the respective Proponent's technical solution being offered.

Form of Fairness Confirmation / Attestation²:

- 1. A confirmation of fair negotiations and contract award would be issued if the LDC's #1 ranked Proponent was awarded a contract; the original Attestation Letter remains in effect.
- 2. An Attestation of fair negotiations and contract award would be issued if the LDC determined that their #1 Proponent was to be set aside and the LDC successfully contracted with their next ranked Proponent, e.g. their #2; the original Attestation Letter is thus superseded by the Negotiations and Contract Award Attestation Letter.

Local Distribution Company:

Oakville Hydro Electricity Distribution Inc

Mr. Alex Bystrin President & CEO Oakville Hydro Electricity Distribution Inc. 861 Redwood Square, Oakville, ON L6L 5E3

- · The two Negotiations Agenda were provided by OHEDI, via its agent Util-Assist;
- Fairness Commissioner undertook no direct participation or oversight in the negotiations between OHEDI and their #1 ranked Proponent;
- The successful contract award was based on the OHEDI criteria and no independent analysis nor any comparison with the evaluation results of the RFP process was carried out by the Fairness Commissioner; and
- The confirmation of the Fairness Commissioner was based on the progress report(s) provided by OHEDI, via its agent Util-Assist.

² Conditions on the rendering of this Confirmation / Attestation.

Oakville Hydro Electricity Distribution Inc. Smart Meter Prudence Review Submitted: April 3, 2012 Page 34 of 42

Appendix B - Smart Meter and Time-of-Use Communications

Figure 1





Your SMART METER is the first step in building Ontario's new smart metering system – and a key step in building a culture of conservation. By 2010 every home and small business in Ontario will have a SMART METER.

SMART METERS enable electricity use to be measured on an hourly basis. In the future, that will allow different electricity rates to apply at different times of the day.

HOW WILL MY SMART METER BE INSTALLED?

- You'll receive a visit from one of our service professionals.
- If your meter is located outside, you don't need to be at home.
- We'll need to turn your power off for a brief period, and apologize for any inconvenience.
- If this location is a medical facility or is a critical care residence where medical equipment is essential, please contact our office at 905.825.9400 in advance to make arrangements.
- Please be aware that Oakville Hydro does not have representatives going door to door selling electricity contracts.
 Visit our website for important tips before signing any contract.

IF YOU'D LIKE MORE INFORMATION, PLEASE CONTACT: Oakville Hydro Electricity Distribution Inc

Tel: 905.825.9400 or visit www.oakvillehydro.com www.smartmetersontario.ca









Figure 3



Figure 4



Helping You Be a Smart Energy Consumer

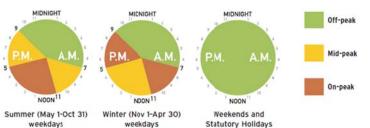
At Oakville Hydro, we want to help you be a **smart** energy consumer by providing you with the information you need about this spring's coming Time-of-Use Rates.

Go to our website at www.oakvillehvdro.com/smart to learn:

- . What Time-of-Use Rates are
- · How Time of-Use Rates help reduce peak electricity use
- Why Time of-Use Rates are good for the environment
- How we will protect your privacy.

By making smart choices about electricity use, we can shift some of our electricity use to mid-peak and off-peak times. Working together, we can flatten and reduce the current peak demand for electricity, which will decrease our dependence on higher-cost electricity and help the environment.

So, be a **smart** energy consumer - go to **www.oakvillehydro.ccm/smart** and learn what you need to know about Time-of-Use Rates.





www.oakvillehydro.com/smart

Figure 5



Be a Smart We're helping you be a smart energy consumer by providing you with the information you need about Ontario's Time-of-Use Rates. . Time-of-Use Rates start this spring in Oakville **Energy** · Time-of-Use Rates encourage us to make smart choices about when we use electricity · Shifting some of our energy use can help reduce our dependence on higher-cost electricity. Consumer To learn more about TOU Rates, be sure to read the Ontario Energy Board's spring bill insert or, go to our website at www.oakvillehydro.com/smart. MIDNIGHT MIDNIGHT Off-peak Mid-peak On-peak OAKVILLE HYDRO NOON1 NOON Summer (May 1-Oct 31) Winter (Nov 1-Apr 30) Weekends and www.oakvillehydro.com/smart Weekdays Weekdays Statutory Holidays



«name» «mail_addr1» «mail_addr2» «mail_city» «mail_province» «mail_postal_zip»

March 7, 2011

Re: Application of Time-of-Use Rates to Hourly Electricity Use Data to Your Account at «serv_street_no» «serv_street» «serv_un»

Dear Customer:

We will begin applying Time-of-Use Rates to your Smart Meter electricity use data as of «date_roll». Thus, your next bill after this date will be calculated using Time-of-Use Rates. Using our normal meter reading schedule, it will take 60 days for us to convert all of our customers to TOU Rates.

This change is part of the provincial government's energy conservation and electricity demand management initiatives and is mandated by the Ontario Energy Board (OEB).

To help you learn more, and prepare for Time-of-Use Rates, we recently launched the "How Smart Are You?" campaign. For more information, please go to our website at www.oakvillehydro.com/smart or Ontario's Independent Electricity System Operator (IESO) at www.ieso.ca.

You will find information outlining:

- · What Time-of-Use Rates are
- · How Time-of-Use Rates help reduce peak energy use
- · Why Time-of-Use Rates are good for the environment
- · What you can do to shift or reduce your electricity use, and
- · How we will protect your privacy.

By making smart choices about electricity use, we can shift some of our electricity consumption away from Peak times to Mid-peak and Off-peak times. Working together, we can flatten and reduce Ontario's current peak demand for electricity. With this change, we can decrease our dependence on higher-cost electricity including coal-fired generating plants, and help the environment.

Our goal is to help you be a smart energy consumer.

Yours sincerely,

Rob Lister

President and CEO

Oakville Hydro Electricity Distribution Inc.

Message from Oakville Hydro

Oakville Hydro has started applying Time-of-Use (TOU) Rates to its customers' electricity use. TOU Rates will be applied using the normal meter reading schedule which will take 60 days to convert all customers to the new rates. Personalized letters have been sent to all customers informing them of the specific date TOU Rates will apply to them.

TOU Rates fall into three categories, On-Peak, Mid-Peak and Off-Peak. The start times of each period are shown below. Summer periods are in effect from May 1 to October 31, 2011; winter rates will begin November 1, 2011.

The installation of Smart Meters and the application of TOU Rates is part of the provincial government's Long-Term Energy Plan to promote energy conservation and manage electricity demand across Ontario. These changes to the way customers are charged for their electricity use are mandated by the Ontario Energy Board.

The government is using TOU Rates to encourage a change in energy use from On-Peak to Off-Peak periods whenever possible. This shift will reduce the strain on the electricity system, help the environment by reducing the need for coal-fired power, and give consumers a new way to manage their electricity use. TOU Rates encourage customers to reduce or shift usage to periods of lower demand (weekends or later in the evening), and away from times when electricity is most expensive. Customers will not be able to shift all electricity usage away from peak demands, but the more electricity a customer shifts, the more they can manage their costs and contribute to lower overall peak prices for everyone.

Oakville Hydro wants to help our customers to be smart energy consumers. We want our customers to understand how TOU Rates work so they can decide if they want to shift their electricity consumption to a less expensive time period. We also want to help them understand other choices that they can make to conserve energy and save money!





Oakville Hydro offers a number of programs and services that can help in making smart energy decisions: whether it's a switch to more energy efficient appliances, making changes in heating and cooling, conducting an energy audit or just providing tips on saving energy around the house every day. All this information - and more - can be found at www.oakvillehydro.com. Customers who don't have access to a computer or who would prefer to speak to one of our Customer Service Representatives can call us at 905-825-9400.

At Oakville Hydro, we are committed to helping our customers become smart energy consumers.



www.oakvillehydro.com/smart

Oakville Hydro Electricity Distribution Inc. Smart Meter Prudence Review Submitted: April 3, 2012 Page 42 of 42

Appendix C - Smart Meter Cost Recovery Model

Choose Your Utility:
Oakville Hydro Electricity Distribution Inc.
Orangeville Hydro Limited

Application Contact Information

Name: Maryanne Wilson Legend Title: Manager, Regulatory Affairs DROP-DOWN MENU 905-825-4422 Phone Number: INPUT FIELD mwilson@oakvillehydro.com **Email Address:** We are applying for rates **CALCULATION FIELD** May 1, 2012 effective: Last COS Re-based Year 2010

Copyright

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissonination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results. The use of any models and spreadsheets does not automatically imply Board approval. The onus is on the distributor to prepare, document and support its application. Board-issued Excel models and spreadsheets are offered to assist parties in providing the necessary information so as to facilitate an expeditious review of an application. The onus remains on the applicant to ensure the accuracy of the data and the results.



Distributors must enter all incremental costs related to their smart meter program and all revenues recovered to date in the applicable tabs except for those costs (and associated revenues) for which the Board has approved on a final basis, i.e. capital costs have been included in rate base and OM&A costs in revenue requirement.

For 2012, distributors that have completed their deployments by the end of 2011 are not expected to enter any capital costs. However, for OM&A, regardless of whether a distributor has deployments in 2012, distributors should enter the forecasted OM&A for 2012 for all smart meters in service.

Smart Meter Capital Cost and Operational Expense Data		2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Te	Total
Smart Meter Installation Plan										
Actual/Planned number of Smart Meters installed during the Calendar Year										
Residential					11,996	44,916	1,808			58720
General Service < 50 kW						3,907	1,107			5014
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)		0	0	0	11996	48823	2915	0		63734
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed		0.00%	0.00%	0.00%	18.82%	95.43%	100.00%	0.00%		100.00%
Actual/Planned number of GS > 50 kW meters installed										0
Other (please identify)										0
Total Number of Smart Meters installed or planned to be installed		0	0	0	11996	48823	2915	0		63734
1 Capital Costs										
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Asset Type Asset type must be selected to enable									
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter	Audited Actual	Audited Actual	Audited Actual	Audited Actual 924,190	Audited Actual 5,781,693	Audited Actual 1,058,039	Forecast	\$ 7	7,763,922
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter				4,761	884,191	289,044		\$ 1	1,177,995
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)	Computer Hardware				4,109	63,444	1,824		\$	69,378
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)									\$	-
Total Advanced Metering Communications Devices (AMCD)		\$ -	\$ -	\$ -	\$ 933,061	\$ 6,729,328	\$ 1,348,907	\$ -	\$ 9	9,011,295
	Asset Type									
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)	0 1111	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	•	540.704
1.2.1 Collectors	Smart Meter				416,390	91,322	36,049		\$	543,761
1.2.2 Repeaters (may include radio licence, etc.)									\$	
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)	Smart Meter					8,474			\$	8,474
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		\$ -	\$ -	\$ -	\$ 416,390	\$ 99,796	\$ 36,049	\$ -	\$	552,235

1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)	Asset Type	Audited Actual	Forecast							
1.3.1 Computer Hardware	Computer Hardware	Addited Actual	Addited Actual	Addited Actual	126,756	Addited Actual	Addited Actual	Torccast	\$	126,756
1.3.2 Computer Software	Computer Software				6,227				s	6,227
	Computer Software				0,227				s s	6,227
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.) Total Advanced Metering Control Computer (AMCC			<u></u>	6	\$ 132,983			6	\$	132,983
Total Advanced Metering Control Computer (AMCC		<u> </u>	\$ -	<u> </u>	\$ 132,983	<u> </u>	<u> </u>	\$ -	3	132,983
	Asset Type									
1.4 WIDE AREA NETWORK (WAN)		Audited Actual	Forecast							
1.4.1 Activiation Fees									\$	-
Total Wide Area Network (WAN)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
	Asset Type									
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY	Asset Type	Audited Actual	Forecast							
1.5.1 Customer Equipment (including repair of damaged equipment)		Addited Actual	Torccast	\$	_					
1.5.1 Customer Equipment (including repair or damaged equipment) 1.5.2 AMI Interface to CIS	Communication Confessions					20.427				
	Computer Software					38,137			\$	38,137
1.5.3 Professional Fees									\$	-
1.5.4 Integration	Smart Meter								\$	-
1.5.5 Program Management	Smart Meter				43,111	68,659	50,061		\$	161,831
1.5.6 Other AMI Capital	Computer Software					86,488	120,277		\$	206,766
Total Other AMI Capital Costs Related to Minimum Functionality		\$ -	\$ -	\$ -	\$ 43,111	\$ 193,285	\$ 170,338	\$ -	\$	406,734
Total Capital Costs Related to Minimum Functionality		\$ -	\$ -	\$ -	\$ 1,525,544	\$ 7,022,409	\$ 1,555,293	\$ -	\$ 1	10,103,247
	Asset Type									
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive title and identify nature of beyond minimum functionality costs)		Audited Actual	Forecast							
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastruthat exceed those specified in O.Reg 425/06	cture								\$	-
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service									\$	-
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.	Computer Software						27,905	200,000	\$	227,905
Total Capital Costs Beyond Minimum Functionality		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,905	\$ 200,000	\$	227,905
Total Smart Meter Capital Costs		\$ -	\$ -	\$ -	\$ 1,525,544	\$ 7,022,409	\$ 1,583,198	\$ 200,000	\$ 1	10,331,152

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Audited Actual	Forecast							
2.1.1 Maintenance (may include meter reverification costs, etc.)								\$	-
2.1.2 Other (please specifiy)								\$	-
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)									
2.2.1 Maintenance					91,701	122,393	138,775	\$	352,869
2.2.2 Other (please specifiy) Transformers								\$	-
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ 91,701	\$ 122,393	\$ 138,775	\$	352,869
2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)									
2.3.1 Hardware Maintenance (may include server support, etc.)								\$	-
2.3.2 Software Maintenance (may include maintenance support, etc.)		76,232	20,811	50,169	38,153	51,806	127,848	\$	365,018
2.3.2 Other (please specifiy)								\$	-
Total Incremental AMCC OM&A Costs	\$ -	\$ 76,232	\$ 20,811	\$ 50,169	\$ 38,153	\$ 51,806	\$ 127,848	\$	365,018
2.4 WIDE AREA NETWORK (WAN)									
2.4.1 WAN Maintenance		13,601	43,148	33,541	18,654	7,582		\$	116,526
2.4.2 Other (please specifiy)								\$	-
Total Incremental AMRC OM&A Costs	\$ -	\$ 13,601	\$ 43,148	\$ 33,541	\$ 18,654	\$ 7,582	\$ -	\$	116,526
2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY									
2.5.1 Business Process Redesign					763	28,146	143,480	\$	172,389
2.5.2 Customer Communication (may include project communication, etc.)				43,884	7,485			\$	51,369
2.5.3 Program Management			24,041	28,365	52,135	4,126		\$	108,667
2.5.4 Change Management (may include training, etc.)					2,475			\$	2,475
2.5.5 Administration Costs				6,810				\$	6,810
2.5.6 Other AMI Expenses (please specify)				3,393	18,870	12,509	116,794	\$	151,565
Total Other AMI OM&A Costs Related to Minimum Functionalit	\$ -	\$ -	\$ 24,041	\$ 82,451	\$ 81,729	\$ 44,780	\$ 260,274	\$	493,275
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ 89,833	\$ 88,000	\$ 166,161	\$ 230,236	\$ 226,561	\$ 526,897	\$	1,327,688
2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY	Audited Actual								
(Please provide a descriptive title and identify nature of beyond minimum functionality costs) 2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure								•	
that exceed those specified in O.Reg 425/06								\$	-
2.6.2 Costs for deployment of smart meters to customers other than residential and small general service								\$	-
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.					147,811	157,599	58,250	\$	363,660
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ 147,811	\$ 157,599	\$ 58,250	\$	363,660
Total Smart Meter OM&A Costs	\$ -	\$ 89,833	\$ 88,000	\$ 166,161	\$ 378,048	\$ 384,159	\$ 585,147	\$	1,691,348

3 Aggregate Smart Meter Costs by Category

3.1	Capital								
3.1.1	Smart Meter	\$ -	\$ -	\$ -	\$ 1,388,452	\$ 6,834,339	\$ 1,433,192	\$ -	\$ 9,655,983
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ 130,865	\$ 63,444	\$ 1,824	\$ -	\$ 196,133
3.1.3	Computer Software	\$ -	\$ -	\$ -	\$ 6,227	\$ 124,626	\$ 148,182	\$ 200,000	\$ 479,035
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.7	Total Capital Costs	\$ \equiv	\$ <u> </u>	\$ -	\$ 1,525,544	\$ 7,022,409	\$ 1,583,198	\$ 200,000	\$ 10,331,152
3.2	OM&A Costs								
3.2.1	Total OM&A Costs	\$ 	\$ 89,833	\$ 88,000	\$ 166,161	\$ 378,048	\$ 384,159	\$ 585,147	\$ 1,691,348



	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure ¹							
Deemed Short-term Debt Capitalization			0.0%	0.0%	4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	55.0%	55.0%	57.5%	60.0%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	45.0%	45.0%	42.5%	40.0%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate			0.00%	0.00%	2.07%	2.07%	2.07%
Long-term Debt Rate (actual/embedded/deemed) ²	6.00%	6.00%	6.00%	6.00%	5.87%	5.87%	5.87%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.85%	9.85%	9.85%
Return on Preferred Shares	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WACC	7.35%	7.35%	7.28%	7.20%	7.31%	7.31%	7.31%
Working Capital Allowance	45.007	45.00/	45.00/	45.00/	45.00/	45.00/	45.00/
Working Capital Allowance Rate	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
(% of the sum of Cost of Power + controllable expenses)							
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%) Computer Software - years	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
OOA Date							
CCA Rates	47	47	47	47	47	47	47
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	52	52	50	50
Computer Equipment - CCA Rate	45%	55%	55%	100%	100%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	45	50	50	52	52	50	50
Applications Software - CCA Class Applications Software - CCA Rate	45%	55%	55%	100%	100%	55%	55%
Applications Software - COA Nate	4570	33 /8	33 /0	100 /0	100 /8	3370	3370

Assumptions

- Planned smart meter installations occur evenly throughout the year.
 Fiscal calendar year (January 1 to December 31) used.
 Amortization is done on a striaght line basis and has the "half-year" rule applied.



	2006	2	007		2008		2009		2010		2011	201	2 and later
Net Fixed Assets - Smart Meters													
Gross Book Value													
Opening Balance Capital Additions during year (from Smart Meter Costs)	\$ -	\$ \$:	\$ \$:	\$ \$	1,388,452	\$	1,388,452 6,834,339	\$ \$	8,222,791 1,433,192	\$ \$	9,655,983
Retirements/Removals (if applicable)	·										,,		
Closing Balance	\$ -	\$		\$		\$	1,388,452	\$	8,222,791	\$	9,655,983	\$	9,655,983
Accumulated Depreciation													
Opening Balance Amortization expense during year	\$ -	\$	-	\$		\$	46,282	-\$ -\$	46,282 320,375	-\$ -\$	366,656 595,959	-\$ -\$	962,616 643,732
Retirements/Removals (if applicable)	•			-		-							,
Closing Balance	\$ -	\$		\$		-\$	46,282	-\$	366,656	-\$	962,616	-\$	1,606,348
Net Book Value	•							•	4 0 40 470	•	7.050.404		0.000.007
Opening Balance Closing Balance	\$ - \$ -	\$ \$		\$ \$		\$ \$	1,342,170	\$ \$	1,342,170 7,856,134	\$	7,856,134 8,693,367	\$ \$	8,693,367 8,049,635
Average Net Book Value	\$ -	\$	-	\$	-	\$	671,085	\$	4,599,152	\$	8,274,751	\$	8,371,501
Net Fixed Assets - Computer Hardware													
Gross Book Value													
Opening Balance Capital Additions during year (from Smart Meter Costs)	\$ -	\$ \$	-	\$ \$	-	\$ \$	130.865	\$ \$	130,865 63.444	\$ \$	194,310 1,824	\$ \$	196,133
Retirements/Removals (if applicable)	·												
Closing Balance	\$ -	\$	-	\$		\$	130,865	\$	194,310	\$	196,133	\$	196,133
Accumulated Depreciation												_	
Opening Balance Amortization expense during year	\$ - \$ -	\$	-	\$		\$	13,087	-\$ -\$	13,087 32,518	-\$ -\$	45,604 39,044	-\$ -\$	84,648 39,227
Retirements/Removals (if applicable) Closing Balance	\$ -	S		\$	_	-\$	13.087	-\$	45.604	-\$	84.648	-\$	123.875
Closing balance	-	\$		Ď.		-3	13,067	-3	45,604	-3	04,040	-φ	123,075
Net Book Value Opening Balance	\$ -	\$		\$		\$		s	117,779	s	148.706	\$	111.485
Closing Balance	\$ -	\$		\$		\$	117,779	\$	148,706	\$	111,485	\$	72,258
Average Net Book Value	\$ -	\$	-	\$	-	\$	58,889	\$	133,242	\$	130,095	\$	91,872
Net Fixed Assets - Computer Software (including Applications Software)	are)												
Gross Book Value													
Opening Balance Capital Additions during year (from Smart Meter Costs)	\$ -	\$ \$:	\$ \$:	\$ \$	6.227	\$ \$	6,227 124,626	\$ \$	130,853 148,182	\$ \$	279,035 200.000
Retirements/Removals (if applicable)													
Closing Balance	\$ -	\$	-	\$		\$	6,227	\$	130,853	\$	279,035	\$	479,035
Accumulated Depreciation		•							4.05-		20.05-	•	00.45-
Opening Balance Amortization expense during year	\$ - \$ -	\$	-	\$		\$	1,038	-\$ -\$	1,038 22,847	-\$ -\$	23,885 68,315	-\$ -\$	92,199 126,345
Retirements/Removals (if applicable)	\$ -						4.000		00.005		20.400		
Closing Balance	\$ -	\$		\$		-\$	1,038	-\$	23,885	-\$	92,199	-\$	218,544
Net Book Value Opening Balance	\$ -	\$		\$		\$	_	\$	5,189	\$	106,968	\$	186,836
Closing Balance	\$ -	\$		\$		\$	5,189	\$	106,968	\$	186,836	\$	260,491
Average Net Book Value	\$ -	\$	-	\$	-	\$	2,595	\$	56,079	\$	146,902	\$	223,663

Net Fixed Assets - Tools and Equipment

Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance	\$	- \$ - \$	-	\$ \$ \$	-	\$ \$	-	\$ \$	-	\$ \$	-	\$ \$: :
Accumulated Depreciation Opening Balance Amortization expense during yea Retirements/Removals (if applicable) Closing Balance		- \$ - \$	-	\$ \$ \$	-	\$	-	\$		\$		\$	-
Net Book Value Opening Balance Closing Balance Average Net Book Value Net Fixed Assets - Other Equipment	\$ \$	- \$ - \$:	\$ \$ \$:	\$ \$:	\$ \$:	\$ \$:	\$ \$:
Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance	\$	- \$ - \$:	\$ \$:	\$ \$:	\$ \$:	\$ \$:	\$ \$:
Accumulated Depreciation Opening Balance Amortization expense during yea Retirements/Removals (if applicable) Closing Balance	\$ \$	- \$ - \$	-	\$	-	\$ \$	-	\$ \$ \$	-	\$	-	\$ \$	-
Net Book Value Opening Balance Closing Balance Average Net Book Value		- \$ - \$	-	\$ \$ \$		\$ \$	- -	\$ \$	- -	\$ \$	-	\$ \$	-

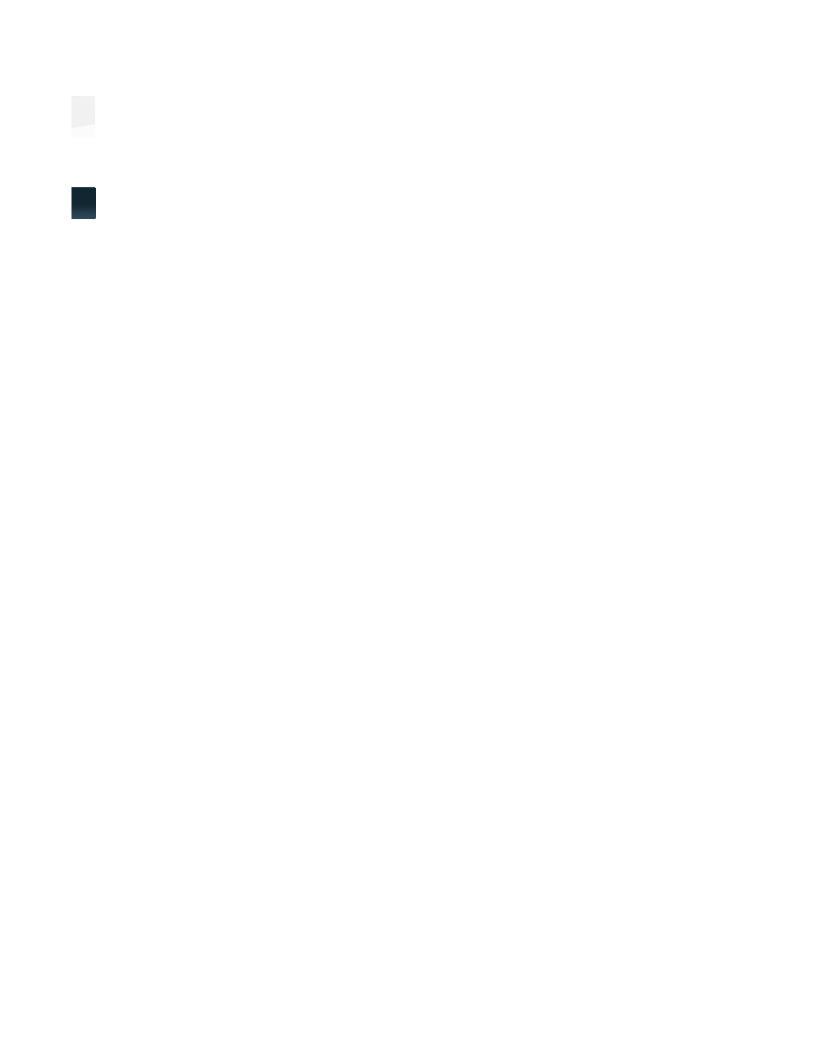
		2006		2007		2008		2009		2010		2011	20	12 and Later
Average Net Fixed Asset Values (from Sheet 4)														
Smart Meters	\$	-	\$	-	\$	-	\$	671,085	\$	4,599,152	\$	8,274,751	\$	8,371,501
Computer Hardware	\$	-	\$	_	\$	_	\$	58.889	\$	133,242	\$	130.095	\$	91.872
Computer Software	\$		\$		\$		\$	2,595	\$	56,079	\$	146,902	\$	223,663
Tools & Equipment	\$		\$		\$		\$	2,000	\$	50,075	\$	140,502	\$	220,000
	\$ \$	-	φ \$	-	ą.	-	\$	-	\$	-	ų.	-	\$	-
Other Equipment	Đ.		ð		Đ.		Đ.		Þ		Đ.			
Total Net Fixed Assets	\$	-	\$	-	\$	-	\$	732,569	\$	4,788,473	\$	8,551,749	\$	8,687,037
Working Capital														
Operating Expenses (from Sheet 2)	\$	-	\$	89,833	\$	88,000	\$	166,161	\$	378,048	\$	384,159	\$	585,147
Working Capital Factor (from Sheet 3)		15%		15%		15%		15%		15%		15%		15%
Working Capital Allowance	\$	-	\$	13,475	\$	13,200	\$	24,924	\$	56,707	\$	57,624	\$	87,772
			_	12.155	_		_		_		_		_	
Incremental Smart Meter Rate Base	\$	-	\$	13,475	\$	13,200	\$	757,493	\$	4,845,180	\$	8,609,372	\$	8,774,809
Return on Rate Base														
Capital Structure														
Deemed Short Term Debt	\$	-	\$	-	\$	-	\$	-	\$	193,807	\$	344,375	\$	350,992
Deemed Long Term Debt	\$	-	\$	7,411	\$	7,590	\$	454,496	\$	2,713,301	\$	4,821,249	\$	4,913,893
Equity	S	-	\$	6,064	\$	5,610	\$	302,997	\$	1,938,072	\$	3,443,749	\$	3,509,923
Preferred Shares	Š	_	\$	-	\$	-,	\$		\$.,,	\$	-,	\$	-,,
Total Capitalization	\$		\$	13.475	\$	13,200	\$	757,493	\$	4.845,180	\$	8,609,372	\$	8.774.809
·	Ψ		Ψ	10,470	Ψ	10,200	Ψ	707,430	Ψ	4,040,100	Ψ	0,000,072	Ψ	0,774,000
Return on														
Deemed Short Term Debt	\$	-	\$	-	\$	-	\$	-	\$	4,012	\$	7,129	\$	7,266
Deemed Long Term Debt	\$	-	\$	445	\$	455	\$	27,270	\$	159,271	\$	283,007	\$	288,446
Equity	\$	-	\$	546	\$	505	\$	27,270	\$	190,900	\$	339,209	\$	345,727
Preferred Shares	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Return on Capital	\$	-	\$	990	\$	960	\$	54,540	\$	354,183	\$	629,345	\$	641,439
Operating Expenses	\$	-	\$	89,833	\$	88,000	\$	166,161	\$	378,048	\$	384,159	\$	585,147
Amortization Expenses (from Sheet 4)														
Smart Meters	\$	-	\$	_	\$		\$	46,282	\$	320,375	\$	595,959	\$	643,732
Computer Hardware	Š		\$		\$		\$	13,087	\$	32,518	\$	39,044	\$	39.227
Computer Software	s		\$		\$		\$	1,038	\$	22,847	\$	68,315	\$	126,345
	-	-	-	=	-	=			\$	22,047	\$	00,515	\$	
Tools & Equipment	\$	-	\$	-	\$	-	\$	-		-	Ψ	-	-	-
Other Equipment	\$		\$		3		\$		\$		\$		\$	
Total Amortization Expense in Year	\$	-	\$	-	\$	-	\$	60,406	\$	375,739	\$	703,318	\$	809,304
Incremental Revenue Requirement before Taxes/PILs	\$	-	\$	90,823	\$	88,960	\$	281,107	\$	1,107,969	\$	1,716,823	\$	2,035,889
Calculation of Taxable Income														
Incremental Operating Expenses	\$	-	\$	89,833	\$	88,000	\$	166.161	\$	378.048	\$	384,159	\$	585.147
Amortization Expense	\$	-	\$	-	\$		\$	60,406	\$	375,739	\$	703,318	\$	809,304
Interest Expense	\$		\$	445	\$	455	\$	27,270	\$	163,283	\$	290,136	\$	295,711
Net Income for Taxes/PILs	\$		\$	546	\$	505	\$	27,270	\$	190,900	\$	339,209	\$	345,727
NET INCOME IOI TAXES/FILS	φ	•	φ	540	φ	505	φ	21,210	Ф	190,900	φ	338,208	φ	343,121
Grossed-up Taxes/PILs (from Sheet 7)	\$	-	\$	308.58	\$	254.35	-\$	14,635.96	\$	16,889.40	\$	106,010.96	\$	118,786.10
Revenue Requirement, including Grossed-up Taxes/PILs	\$	-	\$	91,132	\$	89,215	\$	266,471	\$	1,124,859	\$	1,822,834	\$	2,154,675

For PILs Calculation

UCC - Smart Meters	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC Capital Additions Retirements/Removals (if applicable)	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 1,388,451.66	\$ 1,332,913.59 \$ 6,834,339.14	\$ 7,787,246.08 \$ 1,433,192.22	\$ 8,540,130.93 \$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 1,388,451.66	\$ 8,167,252.73	\$ 9,220,438.30	\$ 8,540,130.93
Half Year Rule (1/2 Additions - Disposals) Reduced UCC	\$ -	\$ -	\$ - \$ -	\$ 694,225.83 \$ 694,225.83	\$ 3,417,169.57 \$ 4,750,083,16	\$ 716,596.11	\$ \$ 8.540.130.93
CCA Rate Class	\$ - 47	\$ - 47	47	\$ 694,225.83 47	\$ 4,750,083.16 47	\$ 8,503,842.19 47	\$ 8,540,130.93 47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 55,538.07	\$ 380,006.65	\$ 680,307.38	\$ 683,210.47
Closing UCC	\$ -	\$ -	\$ -	\$ 1,332,913.59	\$ 7,787,246.08	\$ 8,540,130.93	\$ 7,856,920.45
UCC - Computer Equipment	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	¢ .	¢ .	٠ .	٠ .	\$ 68.546.26	\$ 94,035.11	\$ 151,070.19
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 130,865.31	\$ 63,444.49	\$ 1,823.68	\$ 131,070.19
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ 6,227.20	\$ 124,625.73	\$ 148,182.38	\$ 200,000.00
Retirements/Removals (if applicable)	•		^	A 407.000.54	A 050.040.40	A 044.044.47	A 054 070 40
UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals)	<u>\$</u> -	\$ - \$	\$ - \$	\$ 137,092.51 \$ 68.546.26	\$ 256,616.48 \$ 94,035,11	\$ 244,041.17 \$ 75.003.03	\$ 351,070.19 \$ 100.000.00
Reduced UCC	\$ -	\$ -	\$ -	\$ 68,546.26	\$ 162,581.37	\$ 169,038.14	\$ 251,070.19
CCA Rate Class	45	50	50	52	52	50	50
CCA Rate CCA	45%	55%	55%	100%	100%	55%	55%
CCA Closing UCC	\$ -	\$ -	\$ -	\$ 68,546.26 \$ 68.546.26	\$ 162,581.37 \$ 94,035,11	\$ 92,970.98 \$ 151.070.19	\$ 138,088.61 \$ 212,981.59
dioding odd	ų.	Ψ	ų.	ψ 00,040.20	φ 34,000.11	Ψ 131,070.13	Ψ 212,301.33
UCC - General Equipment	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC CCA Rate Class	\$ - 8	\$ - 8	\$ - 8	\$ - 8	\$ - 8	\$ - 8	\$ - 8
CCA Rate Class CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PILs Calculation

	2006 A	udited Actual	2007 A	udited Actual	2008 A	udited Actual	2009	Audited Actual	2010	Audited Actual	2011	1 Audited Actual		2012 and later Forecast
INCOME TAX														
Net Income	\$	-	\$	545.73	\$	504.90	\$	27,269.76	\$	190,900.11	\$	339,209.27	\$	345,727.46
Amortization	\$	-	\$	-	\$	-	\$	60,406.12	\$	375,738.95	\$	703,318.16	\$	809,304.00
CCA - Smart Meters	\$	-	\$	-	\$	-	-\$	55,538.07	-\$	380,006.65	-\$	680,307.38	-\$	683,210.47
CCA - Computers	\$	-	\$	-	\$	-	-\$	68,546.26	-\$	162,581.37	-\$	92,970.98	-\$	138,088.61
CCA - Applications Software	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
CCA - Other Equipment	\$	=	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Change in taxable income	\$	-	\$	545.73	\$	504.90	-\$	36,408.45	\$	24,051.04	\$	269,249.08	\$	333,732.38
Tax Rate (from Sheet 3)		36.12%		36.12%		33.50%		33.00%		31.00%		28.25%		26.25%
Income Taxes Payable	\$	-	\$	197.12	\$	169.14	-\$	12,014.79	\$	7,455.82	\$	76,062.87	\$	87,604.75
ONTARIO CAPITAL TAX														
Smart Meters	\$	-	\$	-	\$	-	\$	1,342,169.94	\$	7,856,134.33	\$	8,693,367.42	\$	8,049,635.22
Computer Hardware	\$	-	\$	-	\$	-	\$	117,778.78	\$	148,705.76	\$	111,485.11	\$	72,258.41
Computer Software	¢	_	s	_	s	_	s	5.189.33	s	106.968.38	\$	186.836.05	S	260,490.95
(Including Application Software)	Ψ				*		_	0,100.00		100,300.30		100,000.00		200,430.33
Tools & Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Other Equipment	\$	-	\$	-	\$	-	\$	•	\$	-	\$	-	\$	-
Rate Base	\$	-	\$	-	\$	-	\$	1,465,138.05	\$	8,111,808.46	\$	8,991,688.58	\$	8,382,384.58
Less: Exemption	_		_		_		_	4 405 400 05	_	0.444.000.40		0.004.000.50	_	0.000.004.50
Deemed Taxable Capital	\$	-	\$	-	\$	-	\$	1,465,138.05	\$	8,111,808.46	\$	8,991,688.58	\$	8,382,384.58
Ontario Capital Tax Rate (from Sheet 3)	0.300%		0.225%		0.225%		0.225%		0.075%		0.000%		0.000%
Net Amount (Taxable Capital x Rate)	\$	-	\$	-	\$	-	\$	3,296.56	\$	6,083.86	\$	-	\$	-
Change in Income Taxes Payable	\$	_	\$	197.12	\$	169.14	-\$	12,014.79	\$	7,455.82	\$	76,062.87	\$	87,604.75
Change in OCT	\$	-	Š		Š	-	\$	3,296.56	\$	6,083.86	\$	-	Š	
PILs	\$	-	\$	197.12	S	169.14	-\$	8,718.23	\$	13,539.68	\$	76,062.87	\$	87,604.75
										.,				
Gross Up PILs														
Tax Rate		36.12%		36.12%		33.50%		33.00%		31.00%		28.25%		26.25%
Change in Income Taxes Payable	\$	-	\$	308.58	\$	254.35	-\$	17,932.52	\$	10,805.54	\$	106,010.96	\$	118,786.10
Change in OCT	\$	-	\$	-	\$	-	\$	3,296.56	\$	6,083.86	\$	-	\$	<u> </u>
PILs	\$	-	\$	308.58	\$	254.35	-\$	14,635.96	\$	16,889.40	\$	106,010.96	\$	118,786.10



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

	Approved Deferral and Variance	CWIP				Opening Balance	Funding Adder	Interest				Board Approved Smart Meter Funding Adder
Interest Rates	Accounts	CWIP	Date		Quarter	(Principal)	Revenues	Rate	Interest	Closing Balance	Annual amounts	(from Tariff)
2006 Q1 2006 Q2	4.14%	4.68%	Jan-06 Feb-06	2006 2006		\$ - \$ -		0.00%	\$ - \$ -	\$ - \$ -		
2006 Q3	4.59%	5.05%	Mar-06			\$ -		0.00%		\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1 2007 Q2	4.59% 4.59%	4.72% 4.72%	May-06	2006	Q2 Q2	\$ - \$ -			\$ - \$ -	\$ - \$ -		
2007 Q2 2007 Q3	4.59%	4.72% 5.18%	Jun-06 Jul-06			\$ - \$ -		4.14%		\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -	\$ 3,106.07	4.59%	\$ -	\$ 3,106.07		\$ 0.30
2008 Q1	5.14%	5.18%	Sep-06			\$ 3,106.07	\$ 14,665.20	4.59%		\$ 17,783.15		\$ 0.30
2008 Q2 2008 Q3	4.08% 3.35%	5.18% 5.43%	Oct-06 Nov-06			\$ 17,771.27 \$ 32,687.42	\$ 14,916.15 \$ 49,261.65		\$ 67.98 \$ 125.03	\$ 32,755.40 \$ 82,074.10		\$ 0.30 \$ 0.30
2008 Q4	3.35%	5.43%	Dec-06			\$ 81,949.07	\$ 13,201.87	4.59%		\$ 95,464.40	\$ 95,669.29	\$ 0.30
2009 Q1	2.45%	6.61%	Jan-07			\$ 95,150.94	\$ 16,465.46	4.59%		\$ 111,980.35		\$ 0.30
2009 Q2 2009 Q3	1.00% 0.55%	6.61% 5.67%	Feb-07 Mar-07			\$ 111,616.40 \$ 126,048.15	\$ 14,431.75 \$ 16,916.79		\$ 426.93 \$ 482.13	\$ 126,475.08 \$ 143,447.07		\$ 0.30 \$ 0.30
2009 Q4	0.55%	4.66%		2007	Q2	\$ 142,964.94	\$ 13,695.97		\$ 546.84	\$ 157,207.75		\$ 0.30
2010 Q1	0.55%	4.34%	May-07			\$ 156,660.91	\$ 17,987.65	4.59%		\$ 175,247.79		\$ 0.27
2010 Q2 2010 Q3	0.55% 0.89%	4.34% 4.66%	Jun-07 Jul-07			\$ 174,648.56 \$ 188,595.62	\$ 13,947.06 \$ 16,964.33	4.59% 4.59%	\$ 668.03 \$ 721.38	\$ 189,263.65 \$ 206,281.33		\$ 0.27 \$ 0.27
2010 Q3 2010 Q4	1.20%	4.00%	Aug-07			\$ 205,559.95	\$ 15.697.51		\$ 786.27	\$ 222.043.73		\$ 0.27
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 221,257.46	\$ 16,126.20	4.59%	\$ 846.31	\$ 238,229.97		\$ 0.27
2011 Q2 2011 Q3	1.47%	4.29% 4.29%	Oct-07 Nov-07			\$ 237,383.66 \$ 251,814.88	\$ 14,431.22 \$ 18,036,92	5.14% 5.14%		\$ 252,831.67 \$ 270,930.41		\$ 0.27 \$ 0.27
2011 Q3 2011 Q4	1.47%	4.29%	Dec-07			\$ 269,851.80	\$ 18,036.92 \$ 13,586.25	5.14%		\$ 270,930.41	\$ 196,979,45	\$ 0.27
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 283,438.05	\$ 17,768.19	5.14%	\$ 1,214.06	\$ 302,420.30	,	\$ 0.27
2012 Q2	1.47%	4.29%	Feb-08			\$ 301,206.24	\$ 13,811.35		\$ 1,290.17	\$ 316,307.76		\$ 0.27
2012 Q3 2012 Q4	1.47%	4.29% 4.29%	Mar-08 Apr-08		Q1 Q2	\$ 315,017.59 \$ 331,043.62	\$ 16,026.03 \$ 15,552.92	5.14% 4.08%	\$ 1,349.33 \$ 1,125.55	\$ 332,392.95 \$ 347,722.09		\$ 0.27 \$ 0.27
			May-08		Q2	\$ 346,596.54	\$ 16,321.15	4.08%	\$ 1,178.43	\$ 364,096.12		\$ 0.27
			Jun-08		Q2	\$ 362,917.69	\$ 16,299.55	4.08%		\$ 380,451.16		\$ 0.27
			Jul-08 Aug-08			\$ 379,217.24 \$ 396.855.86	\$ 17,638.62 \$ 14,679.92	3.35% 3.35%	\$ 1,058.65 \$ 1,107.89	\$ 397,914.51 \$ 412,643.67		\$ 0.27 \$ 0.27
			Sep-08		Q3	\$ 411,535.78	\$ 17,181.66	3.35%	\$ 1,148.87	\$ 429,866.31		\$ 0.27
			Oct-08			\$ 428,717.44	\$ 15,639.91	3.35%		\$ 445,554.19		\$ 0.27
			Nov-08 Dec-08			\$ 444,357.35 \$ 461,137.78	\$ 16,780.43 \$ 15,312.23	3.35%		\$ 462,378.28 \$ 477,737.35	\$ 207,443,51	\$ 0.27 \$ 0.27
			Jan-09	2009	Q1	\$ 476,450.01	\$ 17,231.22		\$ 972.75	\$ 494,653.98		\$ 0.27
			Feb-09 Mar-09			\$ 493,681.23 \$ 508,910.44	\$ 15,229.21 \$ 17,905.46	2.45% 2.45%		\$ 509,918.37 \$ 527,854.93		\$ 0.27 \$ 0.27
			Apr-09		Q2	\$ 526,815,90	\$ 14,693.96		\$ 439.01	\$ 541,948.87		\$ 0.27
			May-09		Q2	\$ 541,509.86	\$ 17,765.01	1.00%		\$ 559,726.13		\$ 1.00
			Jun-09 Jul-09		Q2 Q3	\$ 559,274.87 \$ 596,451.72	\$ 37,176.85 \$ 57,385.12	1.00%	\$ 466.06 \$ 273.37	\$ 596,917.78 \$ 654,110.21		\$ 1.00 \$ 1.00
			Aug-09			\$ 653,836.84	\$ 60,825.63	0.55%		\$ 714,962.15		\$ 1.00
			Sep-09 Oct-09	2009	Q3 Q4	\$ 714,662.47 \$ 777,419,71	\$ 62,757.24	0.55% 0.55%	\$ 327.55 \$ 356.32	\$ 777,747.26 \$ 838.890.25		\$ 1.00 \$ 1.00
			Nov-09		Q4 Q4	\$ 777,419.71 \$ 838,533.93	\$ 61,114.22 \$ 45.877.70	0.55%		\$ 838,890.25		\$ 1.00 \$ 1.00
			Dec-09		Q4	\$ 884,411.63	\$ 72,639.51	0.55%		\$ 957,456.50	\$ 487,023.78	\$ 1.00
			Jan-10 Feb-10			\$ 957,051.14 \$ 1.019.463.30	\$ 62,412.16 \$ 60,702.82		\$ 438.65 \$ 467.25	\$ 1,019,901.95 \$ 1.080.633.37		\$ 1.00 \$ 1.00
			Mar-10			\$ 1,080,166.12	\$ 61,458.52	0.55%		\$ 1,142,119.72		\$ 1.00
			Apr-10			\$ 1,141,624.64	\$ 63,583.16		\$ 523.24	\$ 1,205,731.04		\$ 1.00
			May-10 Jun-10			\$ 1,205,207.80 \$ 1,265,075.38	\$ 59,867.58 \$ 88,386.79	0.55% 0.55%		\$ 1,265,627.77 \$ 1,354,042.00		\$ 1.69 \$ 1.69
			Jul-10	2010	Q3	\$ 1,353,462.17	\$ 101,389.09		\$ 1,003.82	\$ 1,455,855.08		\$ 1.69
			Aug-10			\$ 1,454,851.26	\$ 103,830.29	0.89%		\$ 1,559,760.56		\$ 1.69
			Sep-10 Oct-10	2010		\$ 1,558,681.55 \$ 1,664,214.46	\$ 105,532.91 \$ 104,414.76	0.89%	\$ 1,156.02 \$ 1,664.21	\$ 1,665,370.48 \$ 1,770,293.43		\$ 1.69 \$ 1.69
			Nov-10	2010	Q4	\$ 1,768,629.22	\$ 98,322.29	1.20%	\$ 1,768.63	\$ 1,868,720.14		\$ 1.69
			Dec-10 Jan-11	2010 2011	Q4 Q1	\$ 1,866,951.51 \$ 1,962,253.67	\$ 95,302.16 \$ 115,480.66	1.20% 1.47%	\$ 1,866.95 \$ 2,403.76	\$ 1,964,120.62 \$ 2,080,138.09	\$ 1,016,797.61	\$ 1.69 \$ 1.69
			Feb-11			\$ 1,962,253.67 \$ 2,077,734.33	\$ 105,310.18	1.47%		\$ 2,080,138.09		\$ 1.69
				2011		\$ 2,183,044.51	\$ 99,870.99	1.47%		\$ 2,285,589.73		\$ 1.69
			Apr-11 May-11	2011		\$ 2,282,915.50 \$ 2,392,439.06	\$ 109,523.56 \$ 86,751.97		\$ 2,796.57 \$ 2,930.74	\$ 2,395,235.63 \$ 2,482,121,77		\$ 1.69 \$ 1.69
			Jun-11			\$ 2,392,439.06	\$ 127,075.99		\$ 3,037.01	\$ 2,609,304.03		\$ 1.69
				2011		\$ 2,606,267.02	\$ 76,752.83		\$ 3,192.68	\$ 2,686,212.53		\$ 1.69
			Aug-11 Sep-11			\$ 2,683,019.85 \$ 2,783,128.14	\$ 100,108.29 \$ 132,232,33	1.47%		\$ 2,786,414.84 \$ 2,918,769.80		\$ 1.69 \$ 1.69
			Oct-11	2011	Q4	\$ 2,915,360.47	\$ 109,189.79	1.47%	\$ 3,571.32	\$ 3,028,121.58		\$ 1.69
			Nov-11		Q4	\$ 3,024,550.26	\$ 88,276.91	1.47%		\$ 3,116,532.24	6 4 000 405 55	\$ 1.69
			Dec-11 Jan-12			\$ 3,112,827.17 \$ 3,218,294.16	\$ 105,466.99 \$ 106,549.71		\$ 3,813.21 \$ 3,942.41	\$ 3,222,107.37 \$ 3,328,786.28	\$ 1,293,406.33	\$ 1.69 \$ 1.69
			Feb-12	2012	Q1	\$ 3,324,843.87	\$ 106,693.64	1.47%	\$ 4,072.93	\$ 3,435,610.45		\$ 1.69
			Mar-12			\$ 3,431,537.52	\$ 106,837.58		\$ 4,203.63 \$ 4,334.51	\$ 3,542,578.72 \$ 3,649,691.11		\$ 1.69 \$ 1.69
			Apr-12 May-12			\$ 3,538,375.09 \$ 3,645,356.60	\$ 106,981.51			\$ 3,649,691.11 \$ 3,649,822.16		a 1.69
			Jun-12	2012	Q2	\$ 3,645,356.60		1.47%	\$ 4,465.56	\$ 3,649,822.16		
			Jul-12 Aug-12	2012		\$ 3,645,356.60 \$ 3,645,356.60		1.47% 1.47%	\$ 4,465.56 \$ 4,465.56	\$ 3,649,822.16 \$ 3,649,822.16		
			Sep-12			\$ 3,645,356.60			\$ 4,465.56	\$ 3,649,822.16		
			Oct-12		Q4	\$ 3,645,356.60			\$ 4,465.56	\$ 3,649,822.16		
			Nov-12 Dec-12			\$ 3,645,356.60 \$ 3,645,356.60		1.47%		\$ 3,649,822.16 \$ 3,649,822.16	\$ 479.340.40	
			200 12		4+	- 0,040,000.00		1 /0	,00.00	- 0,0-10,022.10		

Total Funding Adder Revenues Collected \$ 3,645,356.60 \$ 131,303.77 \$ 3,776,660.37 \$ 3,776,660.37

This worksheet calculates the interest on OM&A and amortization/depreciation expense, based on monthly data.

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	01	s -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4 2007 Q1	4.59% 4.59%	4.72% 4.72%	Apr-06 May-06	2006	Q2 Q2	-			-	4.14% 4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4 2008 Q1	5.14% 5.14%	5.18% 5.18%	Aug-06 Sep-06	2006 2006	Q3 Q3	-			-	4.59% 4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4 2009 Q1	3.35% 2.45%	5.43% 6.61%	Dec-06 Jan-07	2006 2007	Q4 Q1	-			-	4.59% 4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4 2010 Q1	0.55% 0.55%	4.66% 4.34%	Apr-07 May-07	2007	Q2 Q2	-			-	4.59% 4.59%	-	-
2010 Q1 2010 Q2	0.55%	4.34%	Jun-07	2007	Q2 Q2					4.59%	-	
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4 2011 Q1	1.20% 1.47%	4.01% 4.29%	Aug-07 Sep-07	2007	Q3 Q3	-			-	4.59% 4.59%	-	-
2011 Q1 2011 Q2	1.47%	4.29%	Oct-07	2007	Q3 Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4 2012 Q1	1.47% 1.47%	4.29% 4.29%	Dec-07 Jan-08	2007	Q4 Q1	89.832.76	\$ 89,832.76 \$ 4,563.00		89,832.76 94,395.76	5.14% 5.14%	384.78	- 384.78
2012 Q1 2012 Q2	1.47%	4.29%	Feb-08	2008	Q1 Q1	94.395.76	\$ 4,563.00		94,395.76	5.14%	404.33	789.11
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	98,958.77	\$ 4,563.00		103,521.77	5.14%	423.87	1,212.99
2012 Q4	1.47%	4.29%	Apr-08 May-08	2008	Q2 Q2	103,521.77 108,084,77	\$ 4,563.00 \$ 30.164.54		108,084.77 138,249,31	4.08% 4.08%	351.97 367.49	1,564.96 1.932.45
			Jun-08	2008	Q2	138,249.31	\$ 4,442.08		142,691.39	4.08%	470.05	2,402.50
			Jul-08	2008	Q3	142,691.39	\$ 4,860.78		147,552.17	3.35%	398.35	2,800.84
			Aug-08 Sep-08	2008 2008	Q3 Q3	147,552.17 151,976.65	\$ 4,424.48 \$ 4,118.34		151,976.65 156,094.99	3.35% 3.35%	411.92 424.27	3,212.76 3,637.03
			Oct-08	2008	Q4	156,094.99	\$ 5,963.55		162,058.54	3.35%	435.77	4,072.79
			Nov-08	2008	Q4 Q4	162,058.54	\$ 9,119.78 \$ 6.654.47		171,178.32 177.832.79	3.35% 3.35%	452.41 477.87	4,525.21 5.003.08
			Dec-08	2008	Q4 Q1	171,178.32 177.832.79	\$ 5,341.51		183,174,30	2.45%	363.08	5,003.06
			Feb-09	2009	Q1	183,174.30	\$ 5,575.43		188,749.73	2.45%	373.98	5,740.13
			Mar-09 Apr-09	2009	Q1	188,749.73 194,555,42	\$ 5,805.69		194,555.42 207,713,12	2.45% 1.00%	385.36 162.13	6,125.50 6.287.63
			May-09	2009	Q2 Q2	207,713.12	\$ 13,157.70 \$ 5,093.64		212,806.76	1.00%	173.09	6,460.72
			Jun-09	2009	Q2	212,806.76	\$ 6,466.28		219,273.04	1.00%	177.34	6,638.06
			Jul-09 Aug-09	2009	Q3 Q3	219,273.04 224,841.80	\$ 5,568.76 \$ 9.398.03		224,841.80 234,239.83	0.55%	100.50 103.05	6,738.56 6.841.61
			Sep-09	2009	Q3	234,239.83	\$ 40,686.37		274,926.20	0.55%	107.36	6,948.97
			Oct-09 Nov-09	2009	Q4 Q4	274,926.20	\$ 26,770.34 \$ 20,677.88		301,696.54 322,374.42	0.55%	126.01 138.28	7,074.98
			Dec-09	2009	Q4 Q4	301,696.54 322,374.42	\$ 20,677.88 \$ 21,619.23		343,993.65	0.55%	147.75	7,213.26 7,361.01
			Jan-10	2010	Q1	343,993.65	\$ 25,320.56		369,314.21	0.55%	157.66	7,518.68
			Feb-10 Mar-10	2010 2010	Q1 Q1	369,314.21 392,342.02	\$ 23,027.80 \$ 28,798.02		392,342.02 421,140.04	0.55% 0.55%	169.27 179.82	7,687.95 7,867.77
			Apr-10	2010	Q2	421,140.04	\$ 25,145.92		446,285.96	0.55%	193.02	8,060.79
			May-10	2010	Q2	446,285.96	\$ 19,918.73		466,204.69	0.55%	204.55	8,265.34
			Jun-10 Jul-10	2010 2010	Q2 Q3	466,204.69 494,686.80	\$ 28,482.10 \$ 18,423.72		494,686.80 513.110.52	0.55% 0.89%	213.68 366.89	8,479.02 8.845.91
			Aug-10	2010	Q3	513,110.52	\$ 16,365.09		529,475.61	0.89%	380.56	9,226.47
			Sep-10	2010	Q3	529,475.61	\$ 45,208.98		574,684.59	0.89%	392.69	9,619.16
			Oct-10 Nov-10	2010 2010	Q4 Q4	574,684.59 613.108.37	\$ 38,423.77 \$ 66,717,48		613,108.37 679.825.85	1.20% 1.20%	574.68 613.11	10,193.85 10.806.95
			Dec-10	2010	Q4	679,825.85	\$ 42,215.80		722,041.65	1.20%	679.83	11,486.78
			Jan-11 Feb-11	2011	Q1 Q1	722,041.65	\$ 24,583.62 \$ 21,054.04	\$ 47.935.80	746,625.27 815.615.10	1.47%	884.50	12,371.28 13.285.90
			Mar-11	2011 2011	Q1	746,625.27 815,615.10	\$ 21,054.04 \$ 51,213.00	\$ 47,935.80 \$ 24,733.50	891,561.60	1.47% 1.47%	914.62 999.13	14,285.03
			Apr-11	2011	Q2	891,561.60	\$ 7,478.89	\$ 25,260.98	924,301.46	1.47%	1,092.16	15,377.19
			May-11 Jun-11	2011	Q2 Q2	924,301.46 1.002.754.05	\$ 45,937.47 \$ 43,194.57	\$ 32,515.12 \$ 32.016.27	1,002,754.05 1.077.964.89	1.47% 1.47%	1,132.27 1,228.37	16,509.46 17.737.83
			Jul-11	2011	Q3	1,077,964.89	\$ 32,190.25	\$ 29,022.49	1,139,177.62	1.47%	1,320.51	19,058.34
			Aug-11	2011	Q3	1,139,177.62	\$ 28,726.81	\$ 28,195.10 \$ 37,519.96	1,196,099.53	1.47%	1,395.49	20,453.83
			Sep-11 Oct-11	2011	Q3 Q4	1,196,099.53 1,280,464.72	\$ 46,845.24 \$ 24,356.40	\$ 37,519.96 \$ 30,031.12	1,280,464.72 1,334,852.24	1.47% 1.47%	1,465.22 1,568.57	21,919.05 23,487.62
			Nov-11	2011	Q4	1,334,852.24	\$ 18,722.19	\$ 28,352.85	1,381,927.27	1.47%	1,635.19	25,122.82
			Dec-11 Jan-12	2011 2012	Q4 Q1	1,381,927.27	\$ 39,856.57	\$ 29,258.33	1,451,042.17 1,451,042.17	1.47% 1.47%	1,692.86 1,777.53	26,815.68 28.593.20
			Jan-12 Feb-12	2012	Q1 Q1	1,451,042.17 1,451,042.17			1,451,042.17 1,451,042.17	1.47% 1.47%	1,777.53 1,777.53	28,593.20 30,370.73
			Mar-12	2012	Q1	1,451,042.17			1,451,042.17	1.47%	1,777.53	32,148.26
			Apr-12 May-12	2012 2012	Q2 Q2	1,451,042.17 1,451,042.17			1,451,042.17 1,451,042.17	1.47% 1.47%	1,777.53 1,777.53	33,925.78 35,703.31
			Jun-12	2012	Q2 Q2	1,451,042.17			1,451,042.17	1.47%	1,777.53	37,480.84
			Jul-12	2012	Q3	1,451,042.17			1,451,042.17	1.47%	1,777.53	39,258.36
			Aug-12 Sep-12	2012 2012	Q3 Q3	1,451,042.17 1,451,042.17			1,451,042.17 1,451,042.17	1.47% 1.47%	1,777.53 1,777.53	41,035.89 42,813.42
			Oct-12	2012	Q4	1,451,042.17			1,451,042.17	1.47%	1,777.53	44,590.94
			Nov-12	2012	Q4	1,451,042.17			1,451,042.17	1.47%	1,777.53	46,368.47 48.146.00
			Dec-12	2012	Q4	1,451,042.17			1,451,042.17	1.47%	1,777.53	48,146.00

This worksheet calculates the interest on OM&A and amortization/depreciation expense, in the absence of monthly data.

Year	OM&. (from	A Sheet 5)	Expe	tization nse Sheet 5)	and	nulative OM&A Amortization ense	and	rage ulative OM&A Amortization ense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses		
2006	\$	-	\$	-	\$	-	\$	-	4.37%	\$	-	
2007	\$	89,832.76	\$	-	\$	89,832.76	\$	44,916.38	4.73%	\$	2,123.42	
2008	\$	88,000.03	\$	-	\$	177,832.79	\$	133,832.78	3.98%	\$	5,326.54	
2009	\$	166,161.40	\$	60,406.12	\$	404,400.31	\$	291,116.55	1.14%	\$	3,311.45	
2010	\$	378,047.77	\$	375,738.95	\$	1,158,187.03	\$	781,293.67	0.80%	\$	6,230.82	
2011	\$	384,159.46	\$	703,318.16	\$	2,245,664.65	\$	1,701,925.84	1.47%	\$	25,018.31	
2012	\$	585,146.61	\$	809,304.00	\$	3,640,115.26	\$	2,942,889.96	1.47%	\$	43,260.48	
Cumulativ	e Interest	to 2011								\$	42,010.54	
Cumulativ	e Interest	to 2012								\$	85,271.03	

This worksheet calculates the Smart Meter Disposition Rider and the Smart Meter Incremental Revenue Requirement Rate Rider, if applicable. This worksheet also calculates any new Smart Meter Funding Adder that a distributor may wish to request. However, please note that in many 2011 IRM decisions, the Board noted that current funding adders will cease on April 30, 2011 and that the Board also noted that the SMFA is a tool designed to provide advance funding and to mitigate the anticipated rate impact of smart meter costs when recovery of those costs is approved by the Board. The Board observed that the SMFA was not intended to be compensatory (return on and of capital) on a cumulative basis over the term the SMFA was in effect. The SMFA was initially designed to fund future investment, and not fully fund prior capital investment. Distributors that seek a new SMFA should provide evidence to support its proposal. This would include documentation of where the distributor is with respect to its smart meter deployment program, and reasons as to why the distributor's circumstances are such that continuation of the SMFA is warranted. Press the "UPDATE WORKSHEET" button after choosing the applicable adders/riders.

Check if applicable

Smart Meter Funding Adder (SMFA)

X Smart Meter Disposition Rider (SMDR)

The SMDR is calculated based on costs to December 31, 2011

Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR)

The SMIRR is calculated based on the incremental revenue requirement associated with the recovery of capital related costs to December 31, 2012 and associated OM&A.

	2	2006		2007		2008		2009	2010	2011	2	012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$	-	\$	91,131.74	\$	89,214.68	\$	266,471.08	\$ 1,124,858.80	\$ 1,822,833.71	\$	2,154,675.22	\$ 5,549,185.23
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$	-	\$	-	\$	5,003.08	\$	2,357.94	\$ 4,125.77	\$ 15,328.90			\$ 26,815.68
X Sheet 8A (Interest calculated on monthly balances)	\$	-	\$	-	\$	5,003.08	\$	2,357.94	\$ 4,125.77	\$ 15,328.90			\$ 26,815.68
Sheet 8B (Interest calculated on average annual balances)													\$ -
SMFA Revenues (from Sheet 8)	\$	95,150.94	\$	188,287.11	\$	193,011.96	\$	480,601.13	\$ 1,005,202.53	\$ 1,256,040.49	\$	427,062.44	\$ 3,645,356.60
SMFA Interest (from Sheet 8)	\$	518.35	\$	8,692.34	\$	14,431.55	\$	6,422.65	\$ 11,595.08	\$ 37,365.84	\$	52,277.96	\$ 131,303.77
Net Deferred Revenue Requirement	-\$	95,669.29	-\$	105,847.71	-\$	113,225.75	-\$	218,194.77	\$ 112,186.96	\$ 544,756.28	\$	1,675,334.82	\$ 1,799,340.54
Number of Metered Customers (average for 2012 test year)												62675	

Calculation of Smart Meter Disposition Rider (per metered customer per month)

Years for co	ollection or refunding		2
	cremental Revenue Requirement from 2006 to December 31, 2011 Interest on OM&A and Amortization	\$	3,421,325.69
	enues collected from 2006 to 2012 test year (inclusive) s Simple Interest on SMFA Revenues	\$	3,776,660.37
	d Revenue Requirement	-\$	355,334.68
SMDR	May 1, 2012 to April 30, 2014	-\$	0.24
Check: For	recasted SMDR Revenues	-\$	361.008.00 -

Calculation of Smart Meter Incremental Revenue Requirement Rate Rider (per metered customer per month)