Greater Sudbury Hydro Inc. Filed: 9 November, 2012 EB-2012-0126 Exhibit 9

## Exhibit 9:

## **DEFERRAL AND VARIANCE ACCOUNTS**

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 1

Exhibit 9: Deferral And Variance Accounts

# Tab 1 (of 4): Status of Deferral and Variance Accounts

## OVERVIEW OF DEFERRAL AND VARIANCE ACCOUNTS

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Greater Sudbury Hydro Inc ("GSHi") has followed the Board's guidance in the Accounting Procedures Handbook ("APH") and FAQs for recording amounts in the deferral and variance accounts. We have also followed the Report of the Board on Electricity Distributor's Deferral and Variance Account Review Initiative (EDDVAR) (EB-2008-0046, July 31, 2009) for the disposition of these accounts. GSHi has completed and included the Board's "2013 EDDVAR\_Continuity\_Schedule-CoS" spreadsheet at Exhibit 9 Tab1, Schedule 5, Attachment 2.

Carrying charges have been calculated at the Board's prescribed rates, on monthly opening principal balances, in accordance with the APH. The prescribed rate of 1.47% for the third quarter of 2012 was used to calculate forecasted carrying charges for the remainder of 2012 and through to April 30, 2013.

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Exhibit 9, Tab 1, Schedule 2 details each of the accounts disposition is requested for and Table 1 below is a summary of the claim for the deferral accounts.

**Table 1. Summary of Claim** 

rubic 1. Juninary of Claim							
Group 1 Accounts	Account	<b>Total Claim</b>					
LV Variance Account	1550	15,740					
RSVA - Wholesale Market Service Charge	1580	(2,916,111)					
RSVA - Retail Transmission Network Charge	1584	471,651					
RSVA - Retail Transmission Connection Charge	1586	60,522					
RSVA - Power (excluding Global Adjustment)	1588	(183,584)					
RSVA - Power - Sub-account - Global Adjustment	1588	1,418,528					
Recovery of Regulatory Asset Balances	1590	(111,738)					

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	İ	Page 2 of 5
Disposition and Recovery/Refund of Regulatory Balances		
(2009) <sup>7</sup>	1595	(51,880)
Group 1 Sub-Total (including Account 1588 - Global		
Adjustment)		(1,296,871)
Group 1 Sub-Total (excluding Account 1588 - Global		
Adjustment)		(2,715,399)
		(=,:::0,::0)
RSVA - Power - Sub-account - Global Adjustment	1588	1,418,528
NOTE: CHO. Can account Clobal Majacinions	1000	1,110,020
Onesia 2 Accounts		
Group 2 Accounts		
Other Regulatory Assets - Sub-Account - Deferred IFRS		
Transition Costs	1508	128,910
Other Regulatory Assets - Sub-Account - Incremental Capital		
Charges	1508	4,391
Renewable Generation Connection Capital Deferral Account	1531	11,065
•		,
Renewable Generation Connection OM&A Deferral Account	1532	20,076
Transmission Commission Commissio	.002	20,0.0
Smart Grid OM&A Deferral Account	1535	48,545
Citian Cita Citian Dolona / toocant	1000	10,010
Deferred Rate Impact Amounts	1574	(1,377,264)
Defended Nate Impact Amounts	1374	(1,377,204)
Group 2 Sub-Total		(1,164,278)
PILs and Tax Variance for 2006 and Subsequent Years		
(excludes sub-account and contra account below)	1592	(129.071)
,		(128,971)
PILs and Tax Variance for 2006 and Subsequent Years - Sub-	1592	,
Account HST/OVAT Input Tax Credits (ITCs)		(127,937)
Total of Group 1 and Group 2 Accounts (including 1562		
and 1592)		(2,717,956)
,		, , -,
LRAM Variance Account	1568	93,917
		,
		(0.55.55.5
Total including Account 1521 and Account 1568		(2,624,038)

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Certain accounts, due to their nature, have 2012 projected and/or unaudited amounts

The total of all Group 1 and Group 2 (including Account 1592) accounts included for

disposition, including projected carrying charges to April 30, 2013, is a credit of \$2,624,038. This amount excluded the recovery of \$1,193,861 for stranded meters

GSHi proposes to refund a balance of \$4,042,566, excluding Global Adjustment and

Stranded Meters, over a period of 4 years, from May 1, 2013 to April 30, 2017, by means

of the customer class specific rate riders shown in Table 2 below. GSHi is proposing a 4 year recovery period in order to smooth customer rates in the current application and the

which is included for disposition separately.

smooth rates when the rate riders cease in 4 years.

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3 In this application, GSHi is seeking disposition of Group 1, Group 2 and certain other

4 deferral and variance account balances at December 31, 2011 along with their 5 forecasted carrying charges through to April 30, 2013. Where regulatory balances

requested for disposition differ from the December 31, 2011 audited financial

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statements, a reconciliation of the balances is presented.

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10 included for disposition. These include Accounts 1508, 1592 and 1592(HST). Each of

11 these accounts is more fully explained in the sections that follow.

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1 Table 2

## Rate Rider Calculation for Deferral / Variance Accounts Balances (excluding Global Adj.)

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers		Allocated Balance (excluding 1588 sub-account)		ate Rider for ferral/Variance Accounts
Residential Service	kWh	397,644,877	-\$	2,178,930	-	0.0014
General Service Less than 50kW	kWh	143,218,155	-\$	455,542	-	8000.0
General Service 50 to 4,999 kW	kW	957,195	-\$	1,117,245	•	0.2918
Unmetered Scattered Load	kWh	2,310,407	-\$	15,468	ı	0.0017
Sentinel Lighting	kWh	467,079	-\$	12,207	ı	0.0065
Street Lighting	kW	24,155	-\$	263,173	·	2.7239
Total			-\$	4,042,566		

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3 GSHi proposes to recover a balance of \$1,418,528 in Account 1588 RSVA - Global

4 Adjustment from non-RPP customers only, over a period of 4 years from May 1, 2013 to

5 April 30, 2017, by means of a charge of \$.0020 per kWh, and \$.8164 per kW as detailed

6 in Table 3. GSHi confirms that it allocates the balance of the Global Adjustment account

7 to the non-RPP customers.

8 Table 3

## Rate Rider Calculation for RSVA - Power - Sub-account - Global Adjustment

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers	Balance of RSVA - Power - Sub- account - Global Adjustment		Rate Rider for RSVA - Power - Sub-account - Global Adjustment
Residential Service	kWh	49,085,578	\$	400,626	0.0020
General Service Less than 50kW	kWh	20,259,865	\$	165,357	0.0020
General Service 50 to 4,999 kW	kW	261,043	\$	852,427	0.8164
Unmetered Scattered Load	kWh	2,400	\$	20	0.0020
Sentinel Lighting	kWh	12,100	\$	99	0.0020
Streetlighting	kW	-	\$	-	-
Total			\$	1,418,528	

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#### 1 Identification of Accounts that will Continue Going Forward

- 2 All Group 1 accounts will continue going forward.
- 3 The Group 2 accounts submitted for disposition in this rate application will not continue
- 4 going forward assuming final approval.
- 5 Account 1592 "PILs and Tax Variance for 2006 and Subsequent Years' will continue
- 6 going forward.
- 7 Account 1592 "PILs and Tax Variance for 2006 and Subsequent Years Sub-Account
- 8 HST/OVAT Input Tax Credits (ITCs)' will not continue going forward assuming final
- 9 approval of this account that is submitted for disposition.

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### DEFERRAL AND VARIANCE ACCOUNT DESCRIPTION

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2 3 Please refer to the EDDVAR continuity schedule at Exhibit 9, Tab 1, Schedule 5, 4 Attachment 2 for a breakdown of the accounts and amounts included for review and 5 disposition. 6 7 GSHI is proposing to dispose of the balances in all established deferral accounts without 8 exception. A description of each account is detailed below. 9 10 **Group 1 Accounts** 11 12 Account 1550: Low Voltage (LV) Variance account 13 This account captures the difference between the amounts included in rates and billed to 14 customers and the cost the GSHi of Hydro One's charges for using its LV lines to 15 transmit electricity from its transformer stations to GSHi's distribution system. 16 Account 1580: RSVA - Wholesale Market Services Charge Variance Account 17 This account captures the difference between the amounts included in rates and billed to 18 customers and the cost to GSHi of the IESO's charges for operating the IESO-19 administered markets and the IESO-controlled grid, as well as Hydro One's WMS 20 charges. In recent years, the costs charged by the IESO have decreased resulting in a 21 liability. 22 23 Account 1584: RSVA - Retail Transmission Network Charge Variance Account 24 This account captures the difference between the amounts included in rates and billed to 25 the network service component of the Board approved retail customers using

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1 transmission service (RTS) rates and the cost to GSHi of the wholesale charges for

2 transmission network services from the IESO and Hydro One.

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#### Account 1586: RSVA – Retail Transmission Connection Charge Variance Account

- 5 This account captures the difference between the amounts included in rates and billed to
- 6 customers using the connection service component of the Board approved RTS rates
- 7 and the cost to GSHi of the wholesale charges for transmission connection services
- 8 from the IESO and Hydro One.

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#### Account 1588: RSVA - Power (excluding Global Adjustment) Variance Account

- 11 this account captures the difference between the amounts included in rates and billed to
- 12 customers for electricity and the cost of electricity to GSHi from the IESO, Hydro One
- 13 and embedded generators. This account excluded any charges relating to global
- 14 adjustment.

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#### Account 1589: RSVA - Power - Global Adjustment Variance Account

- 17 This account captures the difference between the amounts billed to non-RPP customers
- 18 at OEB prescribed rates for global adjustment and the cost of global adjustment to GSHi
- 19 from the IESO and Hydro One for non-RPP customers. GSHi confirms that it pro-rates
- 20 the global adjustment cost amounts between the RPP and non-RPP portions based on
- 21 the kWh forecast for the non-RPP customers.

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- 1 Account 1590: Recovery of Regulatory Asset Balances
- 2 This variance account, as shown on the EDDVAR continuity schedule with the Group 1
- 3 accounts, captures the approved amounts related to the 2006 EDR filing (EB-2005-
- 4 0370). The total balance of \$1,645,909 approved to be charged to customers was
- 5 included in rates from May 1, 2006 to April 30, 2008. In the 2009 CoS application,
- 6 balances remaining from the former West Nipissing Energy Services Ltd., were
- 7 transferred to this account for disposal. The balance remaining is the residual owing to
- 8 customers.

\$(107,743.00) Over recovery of principle

(3,995.00) carrying charges on over recovery

\$(111,738.00) amount owing to customers.

- 9 Account 1595: Disposition and Recovery/refund of Regulatory Balances (2009)
- 10 Variance Account
- 11 This variance account, as shown on the EDDVAR continuity schedule with the Group 1
- 12 accounts, captures the approved amounts related to the 2009 COS rate application
- 13 (EB2008-0230). The total balance of \$2,591,261,.21 approved to be refunded to
- customers was included in rates from May 1, 2009 to April 30, 2011.

principle amount approved for transfer to 1595 \$(296,388.00) less amount refunded in rates

272,378.00 carrying charges approved for transfer

(27,869.00) carrying charges on principle amount less

refunded amounts

\$ (51,879.00) residual owing to customers

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#### Group 1 Accounts: Variance between RRR vs. 2011 Audited Balances

GSHi can confirm that the balances proposed for disposition before forecasted interest match the 2011 audited financial statements with the exception of accounts 1590 and 1595. When entering the general ledger balances for accounts 1590 and 1595 in the 2.1.7 RRR filing, there was a misalignment of accounts which directly offset one another as noted in the "Variance vs 2011 balances" column in the Deferral/Variance Account Workform.

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#### **Energy Sales and COP Expenses vs. Audited Financial Statements**

In accordance with the Board's Filing Guidelines, Table 1 below details the 2011 energy sales and cost of power expense by USoA account number. \$85,008,941 reconciles to the 'Cost of Power' line on the 2011 Audited Financial Statements.

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#### **Table 1 - 2011 Cost of Power Expense Accounts**

Energy Sales:		2011
4006	Residential Energy Sales	(27,968,162)
4025	Street Lighting Energy Sales	(589,628)
4030	Sentinel Lighting Energy Sales	(33,371)
4035	General Energy Sales	(36,077,652)
4055	Energy Sales for resale	(5,356,376)
4062	Billed WMS	(5,309,619)
4066	Billed NW	(5,550,686)
4068	Billed CN	(3,923,855)
4075	Billed LV	(199,593)
		(85,008,941)

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Cost of Power						
		2011				
4705	Power Purchased	70,025,189				
4708	Charges - WMS	4,189,072				
4714	Charges - NW	5,550,686				
4716	Charges - CN	3,923,855				
4730	Rural Rate Assistance Expense	1,120,547				
4750	Charges - LV	199,593				
		85,008,941				
Net Difference	Net Difference					

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#### **Group 2 Accounts**

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#### 4 Account 1508: Other Regulatory Assets - Sub-Account - Incremental Capital Charges

Per October 2009 FAQ #18, GSHi has followed the guidance provided. We have recorded the charges arising from the Hydro One incremental capital rate relief rider (Rider 5A) to this sub-account, plus applicable carrying charges. The total Rider 5A charges amount to \$3,858, plus \$533 of total carrying charges to April 30, 2013. The total of \$4,391 recoverable from ratepayers is included for review and final disposition for this sub-account in this rate application.

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#### Account 1525: Misc Deferred Debits

GSHi will not be requesting disposition of this balance, as it was written off in 2012, but should have been cleared to nil by the end of 2011. It was an old balance which was disposed of in 2009, the residual being additional carrying charges.

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#### 1 Account 1531: Renewable Generation Connection Capital Deferral Account

- 2 This variance account includes investments associated with expansions to connect
- 3 renewable generation facilities and renewable enabling improvements. The total
- 4 charges amount to \$10,852, plus \$213 of total carrying charges to April 30, 2013. The
- 5 total \$11,065 recoverable from ratepayers is included for review and final disposition for
- 6 this sub-account in this rate application.

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#### 8 Account 1532: Renewable Generation Connection OM&A Deferral Account

- 9 This variance account includes incremental operating, maintenance and administrative
- 10 expenses directly related to expansions to connect renewable generation facilities, and
- 11 renewable enabling improvements. The total charges amount to \$19,690, plus \$386 of
- total carrying charges to April 30, 2013. The total \$20,076 recoverable from ratepayers
- 13 is included for review and final disposition for this sub-account in this rate application.

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#### Account 1535: Smart Grid OM&A Deferral Account

- 16 This variance account includes operating and administrative expenses directly related to
- 17 smart grid studies and planning exercises, as well as smart grid education and training.
- 18 The total charges amount to \$46,726, plus \$1,819 of total carrying charges to April 30,
- 19 2013. The total \$48,545 recoverable from ratepayers is included for review and final
- 20 disposition for this sub-account in this rate application.

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#### 23 Account 1574: Deferred Rate Impact Amounts

- 24 This variance account relates to costs for shared services as Greater Sudbury Hydro
- 25 Plus provides billing services to the City of Sudbury Water Services Division as well as

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- 1 Greater Sudbury. Per EB-2008-0230, the Board ordered Greater Sudbury to create a
- 2 variance account to track the difference between the costs as currently allocated and
- 3 any new allocation of costs as recommended by a cost allocation study prepared by an
- 4 independent third party.
- 5 The Board Order was for Greater Sudbury to defer 50% of the total Billing and Collection
- 6 costs of \$3,642,204. This annual amount was \$1,821,102 and the entries were to
- 7 commence July 1, 2009.
- 8 In Greater Sudbury's response to the Draft Rate Order we stated we would comply with
- 9 the Board's order. Countering this entry it was stated that there would be offsetting
- 10 amounts with respect to amortization (the Board adjusted the amount of capital included
- in rate base), pass through costs to the City and costs that were specific to electricity.
- 12 After reviewing calculations Greater Sudbury determined a final annual deferral entry of
- 13 \$881,424, or \$73,452 monthly.
- 14 The Board also ordered Greater Sudbury to complete a transfer pricing study by
- 15 December 31, 2011 to be filed with the 2013 Cost of Service application. The Transfer
- 16 Pricing Study, along with resulting calculations for a more appropriate cost sharing
- methodology, are submitted as part of the Cost of Service application Exhibit 1, Tab 1,
- 18 Schedule 11, Attachment 1.
- 19 Based on the revised methodology using 2012 budget numbers for the evaluation,
- 20 details of which can be found in the aforementioned document, a reasonable cost
- 21 sharing resulted in 67.54% of the costs for Billing and Collection to be borne by the
- 22 electricity component and 33.91% to be borne by the water component.
- 23 These same allocation methodologies were re-applied to the 2009 budget costs and an
- 24 updated allocation was determined. Calculations can be found in Exhibit 9, Tab 1,
- 25 Schedule 2, Attachment 1. The 2009 total budget costs were revised to \$3,398,094.
- 26 Of this total, \$2,288,337 was allocated to electricity and \$1,148,799 to water.
- 27 The costs recovered from the City were \$793,727 as noted in this same exhibit. The
- 28 difference between the required costs to be borne by the City and the actual amounts

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- 1 passed on resulted in an annual shortfall of \$355,072. This revised amount is what
- 2 Greater Sudbury feels should have been posted to the deferral account 1574. Included
- 3 in the Attachment 1 are two additional schedules. One shows the revised monthly
- 4 entries, offset by 50% cost of the transfer pricing study (also approved by the Board) and
- 5 the other shows the running balances as they were originally booked through to current
- 6 date showing a correcting adjustment to the account balance at the end of 2012.
- 7 The revised balance through April 30, 2013, including carrying charges is projected to be
- 8 \$1,377,264. Greater Sudbury respectfully submits that the cost allocation methodology
- 9 is appropriate and reasonable and seeks the Board's approval of the updated
- 10 calculations.

#### Water Deferral Calculations

#### Greater Sudbury Hydro Inc

#### Analysis of Shared Service Costs - Water and Electric Billing

2009 Budgeted Costs - Applying the Results of the BDR Transfer Pricing Study
Assumptions - 60/40 split on costs to the City based on analysis of calls
Assumptions - 50/50 split on costs to the City for billing based on meter numbers
Assumptions - 75/25 split on costs to the City for business analyst and supervisor

					Greater	
				Sudbury	Sudbury City Share of	
	Allocator		2009 Budget	Hydro	Budget	Key Assumptions
Customer Service Direct Labour & Benefits - clerical Telephone	% of time # of consoles/% of time					minor staff reduction only negligible
Billing Expenses						
Billing Expenses	% of meters - 50/50 split ( 3 CSRs)		- 248,992	124,496		Of 63 cycles, only 13 of them (or 20%) are water only. It would take the same amount of time to bill all other cycles. Regardless of number of services effort would be comparable
Customer service/account management	based on call volumes - 60/40 split		721,202	432,721	288,481	Regarding customer contacts, only 17% are water only. Balance are electric only or both.  Reasonably we could assume only time saved for the percentage water only calls - for ease of calculation use the 20% figure similar to billing
Collections management	based on call volumes - 60/40 split	Α	32,504	19,503	13,002	No change in staffing. Other half day is settlement (100% wires)
Supervision & business analyst	based on call volumes - 75/25 based on system complexities/time tracking SUBTOTAL	В	145,969 1,148,667	109,477 686,197		No change in staffing Subtotal of above
- telephone IT costs & amortization	# of consoles/% of time  allocation based on drivers (phones/PCs/support/mtce)		81,390	40,695	40,695	Assume the number of consoles could be reduced - no benefit Specialized reports for water tracked separately by IT - direct charge/these costs are CSR component of costs. Only minor savings of \$9/phone per month if fewer CSRs. Hardware would be absorbed by GSH
stationary	# of bills issued and occupied space on the bill		106,650	63,580	43,070	Costs calculated to electric/water direct for single service bills and allocated for joint - 76/24 split based on characters on bills Costs calculated to electric/water direct for single service bills and allocated for joint - 76/24 split
postage	# of bills issued and occupied space on the bill		279,160	167,287	111,873	based on characters on bills # bill forms will not be reduced, GSH absorbs full
miscellaneous bank charges	# of bills issued # of bills issued		15,086 18,000	7,543 9,000	7,543 9,000	
- Rent (Occupancy, + Prop Tax & Dep'n)	sq footage of dept/total building/# of bills issued		28,456	14,228		Cost of unoccupied space is included for billing purposes but is a duplication of Building cost allocations reflected in Schedule A
training	60/40 split based on call volumes use the 79/21 split based on		30,000	18,000	12,000	
software support Hub support Costs to other affiliates	amortization (Board order COS) wires activity only		285,344 25,000	225,422 25,000	59,922	79/21 split here as well
Subtotal	Per 2012 Budget		2,017,753	1,256,951	760,802	
i	l		I			

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Cash processing			198,542	99,271	99 271	No change in staffing
odon processing			.00,012	00,2.	55,2	
Meter reading	Direct charge to the City		386,800	230,600	156,200	GSH rate would go up for those accounts read with City accounts
Wholesale settlement Retail settlement	% of time on timesheets % of time	В	95,501 47,504	95,501 47,504		hub support reported above
3rd party collection - electricity	charged direct to electric & water -	ь	47,304	47,304		
(water billed to affiliate)	no sharing	Α	221,036	152,560	68,476	totally variable
- software	79% of billing software as per Board approved order (2009 COS filing)		305,000	240,950	64,050	GSH would otherwise absorb full cost of CIS system wires only - 2012 budget way to low based on actual
Bad debts Costs to other affiliates		Α	165,000 (49,042)	165,000 (49,042)		results last 18 months
			2 222 224	2 222 227	4 4 4 0 7 0 0	Estimated Net Cost Sharing Benefit from Greater
Estimated total Test Year Cus	tomer Service & Billing Costs		3,388,094	2,288,337	1,148,799	Sudbury
			<u>'</u>	67.54%	33.91%	
Amount charged to the City				00.70		
Billing Meter reading					505,001 156,200	
Collections					68,476	_
Subtotal					729,677	
Revised subtotal	ization (not allowed in rate base)				64,050 793,727	_
Nevisca subtotal					100,121	=
Annual Shortfall to be reco	overed from the City and included in o	leferral	account annua	ılly	355,072	=
Toal liability for period Jul	y 1, 2009 - April 30, 2013 - 46 months				1,361,110	
	Meter reading				230,600	
	Cashiers				82,978	
	Customer accounts Market Services				1,834,492 95,901	
	Overhead				248,556	
	Depreciation				420,000	
	Total cost in rates			•	2,912,527	-
	City water billing				729,677	_
	Total Billing & Collecting 2009 (per VE	CC # 3	4 response 2009	OCOS filing)	3,642,204	of this 50% or \$1,821,102 to go to deferral
	Depreciation adjustment				(420,000)	
	20% of \$2,100,000 (this was reduced	to \$1,52	25,000 in final or	der)	305,000	
	Revised building/IT costs					
	Original IT cost				(116,400)	
	Original Building costs				(132,556)	
	Updated IT cost (see below) Updated Building cost (see below)				81,390 28,456	
	Adjusted 2009 Budget for Billing/Cu	stome	r Service		3,388,094	
				•		-
	Alloation of 2009 IT/Building costs (se	e below	/) based on resul	ts of 2012 cost	allocation calc	ulations
			Budget	% from Study	Reallocation	

	<u>Budget</u>	% from Study	Reallocation
2009 Budgeted building costs - 500 Regent 2009 Budgeted IT Costs	\$600,343.00 \$455,964.00	4.74% 17.85%	\$ 28,456.26 \$ 81,389.57 \$109,845.83
2012 Budgeted building costs - 500 Regent 2012 Budgeted IT Costs	\$648,289.00 \$669,405.89	4.74% 17.85%	\$ 30,728.90 \$119,488.95 \$150,217.85

## **Greater Sudbury Hydro Inc**

## Account 1574 - Water Deferral Balance - Required Balance

50% transfer

		pricing		Interest		Cum	
Month	Principal	study	Cum Principal	Rate	Interest	Interest	<b>Total Deferral</b>
01-Jul-09	29,589.36		29,589.36	0.550%	-	-	29,589.36
01-Aug-09	29,589.36		59,178.71	0.550%	27.12	27.12	59,205.83
01-Sep-09	29,589.36		88,768.07	0.550%	40.69	67.81	88,835.88
01-Oct-09	29,589.36		118,357.43	0.550%	54.25	122.06	118,479.49
01-Nov-09	29,589.36		147,946.78	0.550%	67.81	189.87	148,136.65
01-Dec-09	29,589.36		177,536.14	0.550%	81.37	271.24	177,807.38
01-Jan-10	29,589.36		207,125.49	0.550%	94.93	366.17	207,491.66
01-Feb-10	29,589.36		236,714.85	0.550%	108.49	474.66	237,189.51
01-Mar-10	29,589.36		266,304.21	0.550%	122.06	596.72	266,900.93
01-Apr-10	29,589.36		295,893.56	0.550%	135.62	732.34	296,625.90
01-May-10	29,589.36		325,482.92	0.550%	149.18	881.52	326,364.44
01-Jun-10	29,589.36		355,072.28	0.550%	162.74	1,044.26	356,116.54
01-Jul-10	29,589.36		384,661.63	0.890%	285.29	1,329.55	385,991.18
01-Aug-10	29,589.36		414,250.99	0.890%	307.24	1,636.79	415,887.78
01-Sep-10	29,589.36		443,840.34	0.890%	329.18	1,965.97	445,806.31
01-Oct-10	29,589.36		473,429.70	1.200%	473.43	2,439.40	475,869.10
01-Nov-10	29,589.36		503,019.06	1.200%	503.02	2,942.42	505,961.48
01-Dec-10	29,589.36		532,608.41	1.200%	532.61	3,475.03	536,083.44
01-Jan-11	29,589.36		562,197.77	1.470%	688.69	4,163.72	566,361.49
01-Feb-11	29,589.36		591,787.13	1.470%	724.94	4,888.66	596,675.79
01-Mar-11	29,589.36		621,376.48	1.470%	761.19	5,649.85	627,026.33
01-Apr-11	29,589.36		650,965.84	1.470%	797.43	6,447.28	657,413.12
01-May-11	29,589.36		680,555.20	1.470%	833.68	7,280.96	687,836.16
01-Jun-11	29,589.36		710,144.55	1.470%	869.93	8,150.89	718,295.44
01-Jul-11	29,589.36		739,733.91	1.470%	906.17	9,057.06	748,790.97
01-Aug-11	29,589.36		769,323.26	1.470%	942.42	9,999.48	779,322.74
01-Sep-11	29,589.36		798,912.62	1.470%	978.67	10,978.15	809,890.77
01-Oct-11	29,589.36		828,501.98	1.470%	1,014.91	11,993.06	840,495.04
01-Nov-11	29,589.36		858,091.33	1.470%	1,051.16	13,044.22	871,135.55
01-Dec-11	29,589.36	(10,000.00)	877,680.69	1.470%	1,075.16	14,119.38	891,800.07
01-Jan-12	29,589.36	,	907,270.05	1.470%	1,111.41	15,230.79	922,500.84
01-Feb-12	29,589.36		936,859.40	1.470%	1,147.65	16,378.44	953,237.84
01-Mar-12	29,589.36		966,448.76	1.470%	1,183.90	17,562.34	984,011.10
01-Apr-12	29,589.36		996,038.11	1.470%	1,220.15	18,782.49	1,014,820.60
01-May-12	29,589.36		1,025,627.47	1.470%	1,256.39	20,038.88	1,045,666.35
01-Jun-12	29,589.36		1,055,216.83	1.470%	1,292.64	21,331.52	1,076,548.35
01-Jul-12	29,589.36		1,084,806.18	1.470%	1,328.89	22,660.41	1,107,466.59
01-Aug-12	29,589.36		1,114,395.54	1.470%	1,365.13	24,025.54	1,138,421.08
01-Sep-12	29,589.36	(10,000.00)	1,133,984.90	1.470%	1,389.13	25,414.67	1,159,399.57
01-Oct-12	29,589.36		1,163,574.25	1.470%	1,425.38	26,840.05	1,190,414.30
01-Nov-12	29,589.36		1,193,163.61	1.470%	1,461.63	28,301.68	1,221,465.29
01-Dec-12	29,589.36		1,222,752.97	1.470%	1,497.87	29,799.55	1,252,552.52
01-Jan-13	29,589.36		1,252,342.32	1.470%	1,534.12	31,333.67	1,283,675.99
01-Feb-13	29,589.36		1,281,931.68	1.470%	1,570.37	32,904.04	1,314,835.72
01-Mar-13	29,589.36		1,311,521.03	1.470%	1,606.61	34,510.65	1,346,031.68
01-Apr-13	29,589.36		1,341,110.39	1.470%	1,642.86	36,153.51	1,377,263.90
• -	1,361,110.39	(20,000.00)	. ,		•	•	, ,
_		·					1,341,110.39

36,153.51 1,377,263.90

### Account 1574 - Water Deferral Balance - with correcting entry

50% transfer

		transter				_	
		pricing		Interest	_	Cum	
	Principal	study	Cum Principal	Rate	Interest	Interest	Total Deferral
01-Jul-09	73,452.00		73,452.00	0.550%	-	-	73,452.00
01-Aug-09	73,452.00		146,904.00	0.550%	67.33	67.33	146,971.33
01-Sep-09	73,452.00		220,356.00	0.550%	101.00	168.33	220,524.33
01-Oct-09	73,452.00		293,808.00	0.550%	134.66	302.99	294,110.99
01-Nov-09	73,452.00		367,260.00	0.550%	168.33	471.32	367,731.32
01-Dec-09	73,452.00		440,712.00	0.550%	201.99	673.31	441,385.31
01-Jan-10	73,452.00		514,164.00	0.550%	235.66	908.97	515,072.97
01-Feb-10	73,452.00		587,616.00	0.550%	269.32	1,178.29	588,794.29
01-Mar-10	73,452.00		661,068.00	0.550%	302.99	1,481.28	662,549.28
01-Apr-10	73,452.00		734,520.00	0.550%	336.66	1,817.94	736,337.94
01-May-10	73,452.00		807,972.00	0.550%	370.32	2,188.26	810,160.26
01-Jun-10	73,452.00		881,424.00	0.550%	403.99	2,592.25	884,016.25
01-Jul-10	73,452.00		954,876.00	0.890%	708.20	3,300.45	958,176.45
01-Aug-10	73,452.00		1,028,328.00	0.890%	762.68	4,063.13	1,032,391.13
01-Sep-10	73,452.00		1,101,780.00	0.890%	817.15	4,880.28	1,106,660.28
01-Oct-10	73,452.00		1,175,232.00	1.200%	1,175.23	6,055.51	1,181,287.51
01-Nov-10	73,452.00		1,248,684.00	1.200%	1,248.68	7,304.19	1,255,988.19
01-Dec-10	73,452.00		1,322,136.00	1.200%	1,322.14	8,626.33	1,330,762.33
01-Jan-11	73,452.00		1,395,588.00	1.470%	1,709.60	10,335.93	1,405,923.93
01-Feb-11	73,452.00		1,469,040.00	1.470%	1,799.57	12,135.50	1,481,175.50
01-Mar-11	73,452.00		1,542,492.00	1.470%	1,889.55	14,025.05	1,556,517.05
01-Apr-11	73,452.00		1,615,944.00	1.470%	1,979.53	16,004.58	1,631,948.58
01-May-11	73,452.00		1,689,396.00	1.470%	2,069.51	18,074.09	1,707,470.09
01-Jun-11	73,452.00		1,762,848.00	1.470%	2,159.49	20,233.58	1,783,081.58
01-Jul-11	73,452.00		1,836,300.00	1.470%	2,249.47	22,483.05	1,858,783.05
01-Aug-11	73,452.00		1,909,752.00	1.470%	2,339.45	24,822.50	1,934,574.50
01-Sep-11	73,452.00		1,983,204.00	1.470%	2,429.42	27,251.92	2,010,455.92
01-Oct-11	73,452.00		2,056,656.00	1.470%	2,519.40	29,771.32	2,086,427.32
01-Nov-11	73,452.00		2,130,108.00	1.470%	2,609.38	32,380.70	2,162,488.70
01-Dec-11	73,452.00	(10,000.00)	2,193,560.00	1.470%	2,687.11	35,067.81	2,228,627.81
01-Jan-12	73,452.00		2,267,012.00	1.470%	2,777.09	37,844.90	2,304,856.90
01-Feb-12	73,452.00		2,340,464.00	1.470%	2,867.07	40,711.97	2,381,175.97
01-Mar-12	73,452.00		2,413,916.00	1.470%	2,957.05	43,669.02	2,457,585.02
01-Apr-12	73,452.00		2,487,368.00	1.470%	3,047.03	46,716.05	2,534,084.05
01-May-12	73,452.00		2,560,820.00	1.470%	3,137.00	49,853.05	2,610,673.05
01-Jun-12	73,452.00		2,634,272.00	1.470%	3,226.98	53,080.03	2,687,352.03
01-Jul-12	73,452.00		2,707,724.00	1.470%	3,316.96	56,396.99	2,764,120.99
01-Aug-12	73,452.00		2,781,176.00	1.470%	3,406.94	59,803.93	2,840,979.93
01-Sep-12	73,452.00	(10,000.00)	2,844,628.00	1.470%	3,484.67	63,288.60	2,907,916.60
01-Oct-12	73,452.00		2,918,080.00	1.470%	3,574.65	66,863.25	2,984,943.25
01-Nov-12	73,452.00		2,991,532.00	1.470%	3,664.63	70,527.88	3,062,059.88
01-Dec-12	73,452.00		3,064,984.00	1.470%	3,754.61	74,282.49	3,139,266.49
adjustment	(1,842,231.03)		1,222,752.97		(44,482.94)	29,799.55	1,252,552.52
01-Jan-13	29,589.36		1,252,342.32	1.470%	1,534.12	31,333.67	1,283,675.99
01-Feb-13	29,589.36		1,281,931.68	1.470%	1,570.37	32,904.04	1,314,835.72
01-Mar-13	29,589.36		1,311,521.03	1.470%	1,606.61	34,510.65	1,346,031.68
01-Apr-13	29,589.36		1,341,110.39	1.470%	1,642.86	36,153.51	1,377,263.90
• • •	1,361,110.39	(20,000.00)				-	•
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1,341,110.39 36,153.51

1,377,263.90

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#### STRANDED METERS

GSHi is seeking disposition of its stranded meter costs as at December 31, 2012. Full deployment of the smart meter program was completed in 2012 and therefore actual costs of its displaced conventional meters is used.

#### **Determination of Stranded Meter Net Book Value**

Due to the enormous effort involved in calculating the net book value of all stranded meters, GSHi took an alternative approach which we deem arrives at a more reliable result.

GSHi took the approach of first calculating the net book value at December 31, 2012 of its meters that were not replaced with smart meters. This amount was then subtracted from the December 31, 2012 net book value of all meters recorded in Accounts 1860/2105. The resulting amount is therefore the net book value of all stranded meters.

GSHi's metering department was able to provide a list of all meters not replaced by smart meters. This included the year of acquisition and original capitalized cost amount for each meter. This capitalized cost amount includes the cost for labour, truck and extra materials if applicable. Estimates for incomplete data on older meters were used with today's dollars effectively slightly overstating the cost amount of the older meters. From this, the accumulated depreciation was calculated to the end of 2012 using the historical straight line rate of 25 years. Since the net book value of these meters will be slightly overstated, the resulting net book value of the stranded meters will be slightly understated which benefits ratepayers.

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#### **Accounting Treatment**

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GSHi is proposing to remove from its rate base the December 31, 2012 net book value of its displaced conventional meters. This will ensure the 2013 revenue requirement will not include either a cost of capital return or depreciation expense associated with the stranded meters.

7

6

Stranded meter costs are comprised of the gross costs of the stranded conventional meters, less any capital contributions, accumulated depreciation and any net proceeds received from the disposition. This resulting net book value will be transferred to "Sub-account Stranded Meter Costs" of Account 1555 effective December 31, 2012.

12

13 GSHi confirms that it will stop recording depreciation expense on these stranded meters 14 effective December 31, 2012.

15 16

The associated recoveries collected from the separate stranded meter rate riders will be recorded in this sub-account to draw down the balance.

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Effective on the date of the rate order, carrying charges will be calculated on the monthly opening principal balance in the sub-account at the Board prescribed interest rates and will be recorded separately in "Sub-Account Stranded meter Costs Carrying Charges" of Account 1555.

23

22

24

25

#### **Ratemaking Treatment**

- 26 GSHi has completed Appendix 2-S 'Stranded Meter Treatment' at Exhibit 9,Tab 1,
- 27 Schedule 3, Attachment 1. The resulting net recoverable amount from customers of
- 28 \$1,193,861 as at December 31, 2012 is included for review and disposition in this rate
- 29 application.

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- 1 The balance in the 2011 audited financial statements and the 2.1.7 RRR filing for this
- 2 sub-account of Account 1555 were both NIL. Therefore, in the EDDVAR continuity
- 3 schedule, the \$1,193,861 recoverable amount has been included as a negative 2012
- 4 disposal in column BZ labeled *Principal disposition during 2012 instructed by Board* in
- 5 order to make the model reflect the proper recoverable amount to be settled with
- 6 ratepayers.

7

#### Contributed Capital and Proceeds of Disposition

- 8 GSHi started charging contributed capital in 2002. There has never been any
- 9 contributed capital charged for residential or GS<50 conventional meters. Therefore no
- 10 amounts have been included for contributed capital.
- 11 As part of the smart meter installation program, Green-port Environmental was
- 12 contracted for the recycling and disposal of scrap hydro meters. GSHi received a total of
- 13 \$14,493 as proceeds towards the stranded meters which has been deducted from the
- 14 net book value of the assets.

#### 15 Proposed Rate Riders and Recovery Period

- 16 The net book value to be recovered in Account 1555 "Sub-account Stranded Meter
- 17 Costs" is proposed to be recovered by means of separate rate riders for the applicable
- 18 customer classes Residential and GS<50kW.
- 19 The net book value is proposed to be allocated to these customer classes based on the
- 20 actual number of smart meters installed in each class at December 31, 2012 as
- 21 indicated in Table 1 below.
- 22 For each customer class, the stranded meter rate rider is proposed to be a monthly fixed
- 23 charge since the stranded meter costs are not related to a customer's demand or
- 24 consumption. Therefore, each rate rider will be determined based on the forecasted
- 25 number of smart meters in each customer class in 2013. The proposed recovery period
- 26 is two years in order to mitigate rate impacts on the affected customers, and be

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- 1 consistent with the disposition period of the deferral and variance account balances.
- 2 Table 1 below shows the proposed stranded meter rate rider by customer class.

#### Table 1: Stranded Meter Rate Rider by Customer Class

	Residential	GS<50 kW	Total
Smart Meters Installed as of December 31, 2012	42,567	4,045	46,612
Smart Meters installed as a percentage of total	91.32%	8.68%	1.00
NBV of Stranded Meters to be recovered	\$ 1,090,257	\$ 103,604	\$ 1,193,861
Less contributed capital	\$ -	\$ -	\$ -
Net	\$ 1,090,257	\$ 103,604	\$ 1,193,861
Number of Customers - using 2012 year end	42,567	4,045	46,612
Rate Rider (\$ per customer/month for 2years)	1.07	1.07	

## 5 Bill Impacts

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6 The total bill impacts of the rate rider are detailed in Table 2 below.

#### 8 <u>Table 2: Bill Impact of Stranded Meter Rate Rider</u>

Customer Class	Volume (kWh)	Cur	Current TOU Bill		Stranded Meter Rate Rider		Rider Grossed up for tax		OCEB		al Bill pact	Percent of Current bill	
Residential	800	\$	114.29	\$	1.07	\$	1.21	-\$	0.12	\$	1.09	0.95%	
GS<50	2000	\$	276.02	\$	1.07	\$	1.21	-\$	0.12	\$	1.09	0.95%	

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#### 1 Cost Allocation for 2013 Base Rates

- 2 GSHi confirms that the total net book value of these stranded meters has been removed
- 3 from all Cost Allocation calculations in Exhibit 7.

File Number:	EB-2012-0126
Exhibit:	9
Tab:	1
Schedule:	3
Attachment:	1

Date: 9 November, 2012

## Appendix 2-S Stranded Meter Treatment

Year	Notes	Gross Asset Value	Accumulated Amortization	Contributed Capital (Net of Amortization)	Net Asset	Proceeds on Disposition	Residual Net Book Value
		(A)	(B)	(C)	(D) = (A) - (B) - (C)	(E)	(F) = (D) - (E)
2006					\$ -		\$ -
2007					\$ -		\$ -
2008					\$ -		\$ -
2009					\$ -		\$ -
2010					\$ -		\$ -
2011					\$ -		\$ -
2012	(1)	\$ 7,076,701	\$ 5,868,347	\$ -	\$ 1,208,354	\$ 14,493	\$ 1,193,861

#### Notes:

(1) For 2012, please indicate whether the amounts provided are on a forecast or actual basis.

GSHi: Scenerio B applies and all amounts are on an actual basis

Some distributors have transferred the cost of stranded meters from Account 1860 - Meters to "Sub-account Stranded Meter Costs of Account 1555", while in some cases distributors have left these costs in Account 1860. Depending on which treatment the applicant has chosen. please provide the information under either of the two scenarios (A and B below), as applicable.

**Scenario A:** If the stranded meter costs were transferred to "Sub-account Stranded Meter Costs" of Account 1555, the above table should be completed and the following information should be provided.

- A description of the accounting treatment followed by the applicant on stranded meter costs for financial accounting and reporting purposes.
- The amount of the pooled residual net book value of the removed from service stranded meters, less any contributed capital (net of accumulated amortization), and less any net proceeds from sales, which were transferred to this subaccount as of December 31, 2010.
- A statement as to whether or not, since transferring the removed stranded meter costs to the sub-account, the recording of depreciation expenses was continued in order to reduce the net book value through accumulated depreciation. If so, the total depreciation expense amount for the period from the time the costs for the stranded meters were transferred to the sub-account to December 31, 2010 should be provided.

If no depreciation expenses were recorded to reduce the net book value of stranded meter costs through accumulated depreciation, the total depreciation expense amount that would have been applicable from the time that the stranded meter costs were transferred to the sub-account of Account 1555 to December 31, 2010 should be provided. In addition, the following information should be provided:

- a) Whether or not carrying charges were recorded for the stranded meter cost balances in the sub-account, and if so, the total carrying charges recorded to December 31, 2010.
- b) The estimated amount of the pooled residual net book value of the removed from service meters, less any net proceeds from sales and contributed capital, at the time when the smart meters will have been fully deployed (e.g., as of December 31, 2010). If the smart meters have been fully deployed, the actual amount should be provided.

c) A description as to how the applicant intends to recover in rates the remaining costs for stranded meters, including the proposed accounting treatment, the proposed disposition period, and the associated bill impacts.

**Scenario B:** If the stranded meter costs remained recorded in Account 1860, the above table should be completed and the following information should be provided:

A description of the accounting treatment followed by the applicant on stranded meter costs for financial accounting and reporting purposes.

GSHI: Refer to Exhibit 9, Tab 1, Schedule 3

2

The amount of the pooled residual net book value of the removed from service stranded meters, less any contributed capital (net of accumulated amortization), and less any net proceeds from sales, as of December 31, 2010.

GSHI: Refer to chart above

A statement as to whether or not the recording of depreciation expenses continued in order to reduce the net book value through accumulated depreciation. If so, provision of the total (cumulative) depreciation expense for the period from the time that the meters became stranded to December 31, 2010.

GSHI: Refer to Exhibit 9, Tab 1, Schedule 3

If no depreciation expenses were recorded to reduce the net book value of stranded meters through accumulated depreciation, the total (cumulative) depreciation expense amount that would have been applicable for the period from the time that the meters became stranded to December 31, 2010.

GSHI: not applicable

The estimated amount of the pooled residual net book value of the removed from service meters, less any net proceeds from sales and contributed capital, at the time when smart meters will have been fully deployed. If the smart meters have been fully deployed, please provide the actual amount.

GSHI: Refer to Exhibit 9, Tab 1, Schedule 3

A description as to how the applicant intends to recover in rates the costs for stranded meters, including the proposed accounting treatment, the proposed disposition period and the associated bill impacts.

GSHI: Refer to Exhibit 9, Tab 1, Schedule 3

Distributors should also provide the Net Book Value per class of meter as of December 31, 2010 as well as the number of meters that were removed / stranded. In preparing this information, distributors should review the Board's letter of January 16, 2007 Stranded Meter Costs Related to the Installation of Smart Meters which stated that records were to be kept of the type and number of each meter to support the stranded meter costs.

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## **HST DEFERRAL ACCOUNT**

2	
3	Account 1592: PiLs and Tax Variance for 2006 and Subsequent Years - Sub-Account
4	HST/OVAT Input Tax Credits (ITCs)
5	
6	
7	The Provincial Sales Tax ("PST") and the Federal Goods and Services Tax "(GST")
8	were harmonized into the Harmonized Sales Tax ("HST") effective July 1, 2010. Items
9	previously subject to PST are now subject to HST, which is refundable. as a result,
10	electricity distributors that rebased prior to 2010 may benefit from an overall net
11	reduction in costs relative to the costs included in base rates.
12	
13	the Board determined that cost reductions arising from the implementation of HST
14	should be shared equally between ratepayers and shareholders. Thus, a new sub-
15	account of Account 1592 was created and named "Sub-account HST/OVAT Input Tax
16	Credits (ITCs)" which will capture the incremental savings to be shared upon disposition.
17	
18	GSHi has reviewed the guidance provided in the OEB Accounting Procedures Handbook
19	Frequently Asked Questions dated December 2010, specifically questions 1 to 5, in
20	order to determine the appropriate amounts to be included in this sub-account of
21	Account 1592.
22	
23	Question 1
24	It is indicated that the offsetting entry to Account 1592, sub account HST/OVAT Input
25	Tax Credits should be made to Account 1592, sub-account HST/OVAT Contra Account,

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 1 Schedule 4 Page 2 of 5

- 1 such that the sum of these two sub-accounts should be NIL. GSHI has followed this
- 2 accounting treatment.

#### 3 Question 2

- 4 It is indicated that ITCs received on items not previously subject to PST should not be
- 5 recorded in Account 1592. GSHi has followed this accounting treatment since there are
- 6 no incremental savings to be recorded.

#### 7 Question 3

- 8 Certain items not previously subject to PST (i.e. gasoline, electricity) became subject to
- 9 HST, but are subject to "Recaptured ITCs ("RITCs") provision where no ITC is received;
- 10 the answer to Question 3 indicates that the incremental HST on these items should not
- be recorded in the sub-account. GSHi has followed this accounting treatment.

#### 12 Question 4

- 13 The answer to Question 4 addresses the difficulty in identifying which ITCs represent the
- 14 incremental savings to be recorded in Account 1592. It suggests a proxy method that
- 15 can be used instead of using a detailed transactional basis, to determine the amounts for
- 16 inclusion. The proxy method alternative discusses how to derive the PST savings on
- 17 OM&A and capital items for the 2009 historic year to use as a proxy for the amounts to
- 18 be recorded from July 2010 until the next rebasing.
- 19 For OM&A, GSHI has not used the proxy method, instead, we have review all
- 20 transactions from July 2010 to December 2010, and all of 2011 to determine the actual
- 21 savings. For the 2012 year, we reviewed all transaction to October 31, 2012 to
- 22 determine the savings for the first 10 months. From there we calculated a per month
- amount as a proxy to be used for the final 2 months of 2012 and the first 4 months to
- 24 April 30, 2013.
- 25 From July 2010 to April 2013, GSHi has recorded a total of \$250,269 of net OM&A
- 26 incremental savings to both sub-accounts of Account 1592 (which offset each other).
- 27 See table 1 below.

1

HST Savings on OM&A										
			Ar	mount for	C	arrying				
Year	Ac	count 1592	Di	isposition	Charges					
		100%		50%		50%				
Balance at June 30, 2010										
Transactions for from July 2010 to Dec 2010	\$	49,961	\$	24,981	\$	81				
Transactions for from Jan 2011 to Dec 2011	\$	84,109	\$	42,055	\$	702				
Transactions for from Jan 2012 to Dec 2012	\$	87,149	\$	43,574	\$	1,332				
Transactions for from Jan 2013 to April 2013	\$	29,050	\$	14,525	\$	586				
Total	\$	250,269	\$	125,135	\$	2,702				

2

- 4 For Capital, the answer to Question 4 discusses whether there are any savings from
- 5 HST related to capital costs and depreciation to be recorded in Account 1592.
- The answer to Question 4 indicates that any savings on capital purchases subsequent to
- 7 July 1, 2010 will be reflected in the cost when these assets are included in rate base at
- 8 the next cost of service application. GSHi agrees that any savings in cost due to the
- 9 elimination of PST will automatically flow to ratepayers at that time and there are no
- incremental savings to be recorded in Account 1592.
- 11 The answer to Question indicates that, for any period before the rebasing that occurs
- 12 after July 1, 2010, the PST savings would be included in the annual depreciation of the
- 13 capital items. GSHi disagrees with this assertion. To explain, depreciation relating to
- 14 the period July 1, 2010 (HST implementation) to May 1, 2013 (new CoS rates) can be
- 15 broken down into three components.
- 16 First, there is depreciation recorded in the general ledger relating to capital costs
- incurred prior to January 1, 2009 (last CoS rebasing test year). This depreciation relates

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 1 Schedule 4 Page 4 of 5

- 1 to the previously incurred capital asset cost amounts which had PST included. The
- 2 corresponding depreciation in existing rates represents the recovery of these capital
- 3 costs incurred prior to January 1, 2009 and accordingly there can be no incremental
- 4 savings.
- 5 Second, there is depreciation recorded in the general ledger relating to capital costs
- 6 incurred in 2009. This depreciation relates to capital costs that had PST included. The
- 7 2009 CoS capital asset additions for the 2009 test year included PST, and these test
- 8 year capital asset additions also formed the basis for the depreciation collected in rates.
- 9 Again, since this depreciation in existing rates represents the recovery of the capital
- 10 costs forecasted for 2009, there can be no incremental savings during this time period.
- 11 Lastly, there is depreciation recorded in the general ledger relating to capital costs
- 12 incurred between January 1, 2010 and April 30, 2013. This depreciation relates to
- 13 capital costs which have not yet been included in rates. These capital costs, and the
- 14 corresponding depreciation, will not be included in rates until the 2013 rebasing at which
- 15 time they will be included in the revenue requirement (return on rate base plus
- 16 depreciation). As a result, there can be no incremental savings during this period.
- 17 Therefore, for capital and depreciation, GSHi has not recorded any amounts to Account
- 18 1592.

24

#### 19 Question 5

- 20 The answer to Question 5 indicates that the full 100% savings must be recorded to the
- 21 sub-accounts of 1592 in order to allow the Board the ability to conduct a review of the
- 22 quantum and reasonableness of the savings. GSHi has recorded 100% of the net
- 23 incremental savings in the amount of \$250,269 as shown in Table 1 above.

#### Carrying Charges

- 25 Carrying charges have been calculated based on 50% of the liability amount recorded in
- 26 Account 1592 (excluding contra sub-account). As shown in Table 1 above, these total
- \$2,702 for the period up to the end of April 2013.

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 1 Schedule 4 Page 5 of 5

- 2 The balance in the 2011 audited financial statements and the 2.1.7 RRR filing were both
- 3 NIL. Therefore, in the EDDVAR continuity schedule, the \$142,622 liability amount has
- 4 been included as a negative 2012 disposal in column BZ labeled Principal disposition
- 5 during 2012 instructed by Board and carrying charges in column CA labeled Interest
- 6 Disposition during 2012-instructed by the Board in order to make the model reflect the
- 7 proper liability amounts to be settled with ratepayers.
- 8 For further clarity, in the EDDVAR continuity schedule, row 66 captures the 50% liability
- 9 amount and the related carrying charges and is included in the total claim amount
- 10 (column CF).

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 1 Schedule 5 Page 1 of 1

### **DEFERRED PILS ACCOUNT**

Account 1592 "PILs and Tax Variance for 2006 and Subsequent Years"

Please refer to Appendix 2-T at Exhibit 9, Tab1, Schedule 5, Attachment 1 for the detailed calculations of the balance in Account 1592.

GSHi completed its calculations for the first time in 2012 in conjunction with the preparation of the 2013 CoS rate application. The resulting principal liability amount of \$119,541 as at December 31, 2011, and carrying charges of \$6,899 up to and including April 2013, totaling \$128,971 owing to ratepayers, is included for review and disposition in this rate application. If the Board requires the settlement of this Account to be based on audited amounts, then GSHi is requesting that this Sub-Account be submitted for review and disposition during our 2014 IRM rate application.

The balance in the 2011 audited financial statements and the 2.1.7 RRR filing were both NIL. Therefore, in the EDDVAR continuity schedule, the \$128,971 liability amount has been included in as a negative disposition during 2012 (column BZ) along with the interest as a negative interest disposition during 2012 (column CA) to be included in the amount to be claimed for this CoS rate application.

File Number:	EB-2012-0126
Exhibit:	9
Tab:	1
Schedule:	5
Attachment:	1

Date: 9 November, 2012

## Appendix 2-T Deferred PILs Account 1592 Balances

The following table should be completed based on the information requested below, in accordance with the notes following the table. An explanation should be provided for any blank entries.

Tax Item		ncipal as of cember 31,
Tux Reili		2011
Large Corporation Tax grossed-up proxy from 2006 EDR application PILs model for the period from May 1, 2006 to April 30, 2007  Response: GSHi was not subject to LCT and therefore no proxy was included in the 2006 EDR rate application  Large Corporation Tax grossed-up proxy from 2006 EDR application PILs model for the period from January 1, 2006 to April 30, 2006 (4/12ths of the approved grossed-up proxy), if not recorded in PILs account 1562  Response:  GSHi was not subject to LCT and therefore no proxy was included in the 2006 EDR rate	n/a	
Ontario Capital Tax rate decrease and increase in capital deduction for 2007  Response: Refer to Note 7.	\$	(16,421.68)
Ontario Capital Tax rate decrease and increase in capital deduction for 2008  Response: Refer to note 8.	\$	(57,733.40)
Ontario Capital Tax rate decrease and increase in capital deduction for 2009  Response: Refer to Note 9 (GSHi rebased May 1, 2009)	\$	(7,994.47)
Ontario Capital Tax rate decrease and increase in capital deduction for 2010	n/a	,
Capital Cost Allowance class changes from 2006 EDR application for 2006	n/a	
Capital Cost Allowance class changes from 2006 EDR application for 2007	n/a	
Capital Cost Allowance class changes from 2006 EDR application for 2008	n/a	
Capital Cost Allowance class changes from 2006 EDR application for 2009	n/a	
Capital Cost Allowance class changes from 2006 EDR application for 2010	n/a	
Capital Cost Allowance class changes from 2006 EDR application for 2011	n/a	
Capital Cost Allowance class changes from any prior application not recorded above. Please	/	
provide details and explanation separately.	n/a	
Corporate tax rate decrease from 36.12% to 33.50% for 2008 (Jan to April)	\$	(31,400.00)
Corporate tax rate decrease from 33.5% to 33.00% for 2009 (Jan to April)	\$	(5,991.00)
Total	\$	(119,540.55)

#### Notes:

1 Revise the deferral and variance account continuity schedule to include account 1592 as a group 2 account and enter all relevant information for transactions, adjustments, etc., for all relevant years.

Response: Account 1592 has been included as a Group 2 Account in the continuity schedule

- 2 Describe each type of tax item that has been recorded in account 1592. Response: Refer to notes (7) to (11)
- 3 Provide the calculations that show how each item was determined and provide any pertinent supporting evidence and documentation.

Response: Refer to notes (7) to (11)

4 Please state whether or not the applicant followed the guidance provided in the FAQ of July 2007. If not, please provide an explanation.

Response: GSHi has followed the guidance provided in the FAQ of July 2007.

5 Identify the account balance as of December 31, 2011 as per the 2011 Audited Financial Statements. Identify the account balance as of December 31, 2011 as per the April 2012 2.1.7 RRR filing to the Board. Provide a reconciliation if the balances provided are not identical to each other and to the total shown on the continuity schedule.

Response: The balance in the 2011 audited financial statements and the 2.1.7 RRR filing were both NIL.

6 Complete the above table based on the answers to the previous. Add rows as required to complete the analysis in an informative manner. Please provide the completed table as a working Excel spreadsheet.

Response: Completed.

7

7			
Ontario Capital Tax rate decrease and increase in capital deduction for calendar 2007:			
		2006EDR	2007
Taxable capital per 2006 EDR	\$	71,977,864	\$ 71,977,864
Deduction	\$	(10,000,000)	\$ (12,500,000)
Net taxable capital		61,977,864	59,477,864
Ontario Capital tax rate		0.00300	0.00285
Capital tax	\$	185,934	\$ 169,512
Difference = credit entry to Account 1592 for the year.		=	\$ (16,421.68)
8			
Ontario Capital Tax rate decrease and increase in capital deduction for calendar 2008:			
		2006EDR	2008
Taxable capital per 2006 EDR	\$	71,977,864	\$ 71,977,864
Deduction	\$	(10,000,000)	\$ (15,000,000)
Net taxable capital		61,977,864	56,977,864
Ontario Capital tax rate		0.00300	0.00225
Capital tax	\$	185,934	\$ 128,200
Difference = credit entry to Account 1592 for the year.		=	\$ (57,733.40)
9			
Ontario Capital Tax rate decrease and increase in capital deduction for January to April 20	009:		
		2006EDR	2009
Taxable capital per 2009 EDR	\$	71,977,864	\$ 71,977,864
Deduction	\$	(10,000,000)	\$ 
Net taxable capital		61,977,864	71,977,864
Ontario Capital tax rate		0.00300	0.00225
Capital tax	\$	185,934	\$ 161,950
Difference = credit entry to Account 1592 for the 1st quarter		=	\$ (7,994.47)
10			
Income tax decrease from 36.12 o 33.50% from January to April 2008			
		2006EDR	2008IRM
Regulatory taxable income - per 2006 EDR	\$	3,595,405	\$ 3,595,405
Corporate income tax rate		36.12%	33.50%
Income tax		1,298,660.29	1,204,460.68
Difference	-		\$ (94,199.61)

11

Income tax decrease from 36.12 o 33.50% from January to April 2009

Credit entry to Account 1592 for January to April 2008

	- 2	2008IRIVI	2009
Regulatory taxable income - per 2008 IRM	\$	3,595,405	\$ 3,595,405
Corporate income tax rate		33.50%	33.00%
Income tax		1,204,461	1,186,484
Difference			\$ (17,976.28)
			/12 x 4
Credit entry to Account 1592 for January to April 2009			\$ (5,992.09)

/12 x 4

31,400

Conuity Statements for Deferral/Variance Accounts



# Deferral/Variance Account Workform for 2013 Filers

Version 2.0

Utility Name	Greater Sudbury Hydro Inc	
Service Territory	(if applicable)	
Assigned EB Number	EB-2012-0126	
Name of Contact and Title	Nancy Whissell, VP Corporate Services	
Phone Number	705-675-0509	
Email Address	nancyw@shec.com	

#### **General Notes**

- 1. Please ensure that your macros have been enabled. (Tools -> Macro -> Security)
- 2. Due to the time lag of deferral/variance account dispositions, this model assumes that all opening balances include previously disposed of amounts. Accordingly, all "Board Approved Dispositions" are deducted from the opening balance.
- 3. Please provide information in this model since the last time your balances were disposed.
- 4. For all Board-Approved dispositions, please ensure that the disposition amount has the same sign (e.g. debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related Board decision.

#### Notes

Pale green cells represent input cells.
Pale blue cells represent drop-down lists. The applicant should select the appropriate item from the drop-down list.
White cells contain fixed values, automatically generated values or formulae.

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

Greater Sudbury Hydro Inc 9 November, 2012 EB-2012-0126 Exhibit 9 Tab 1 Schedule 5 Attachment 2



# Deferral/Variance Account Workform for 2013 Filers

						2005					
Account Descriptions	Account Number	Opening Principal Amounts as of Jan- 1-05	Transactions Debit/ (Credit) during 2005 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2005	Adjustments during 2005 - other <sup>2</sup>	Closing Principal Balance as of Dec-31-05	Opening Interest Amounts as of Jan-1-05	Interest Jan-1 to Dec-31-05	Board-Approved Disposition during 2005	Adjustments during 2005 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-05
Group 1 Accounts											
LV Variance Account RSVA - Wholesale Market Service Charge RSVA - Retail Transmission Network Charge RSVA - Retail Transmission Connection Charge RSVA - Power (excluding Global Adjustment) RSVA - Power - Sub-account - Global Adjustment Recovery of Regulatory Asset Balances Disposition and Recovery/Refund of Regulatory Balances (2008) Disposition and Recovery/Refund of Regulatory Balances (2009) Disposition and Recovery/Refund of Regulatory Balances (2010)	1550 1580 1584 1586 1588 1588 1590 1595 1595					555555555555555555555555555555555555555					\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
Group 1 Sub-Total (including Account 1588 - Global Adjustment) Group 1 Sub-Total (excluding Account 1588 - Global Adjustment) RSVA - Power - Sub-account - Global Adjustment	1588	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -
Group 2 Accounts											
Other Regulatory Assets - Sub-Account - OEB Cost Assessments Other Regulatory Assets - Sub-Account - Pension Contributions Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs Other Regulatory Assets - Sub-Account - Incremental Capital Charges Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act <sup>6</sup> Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying Charges Other Regulatory Assets - Sub-Account - Other <sup>4</sup> Retail Cost Variance Account - Retail Misc. Deferred Debits Renewable Generation Connection Capital Deferral Account Renewable Generation Connection M&A Deferral Account Smart Grid Capital Deferral Account Smart Grid Capital Deferral Account Smart Grid Capital Deferral Account Smart Grid Gupital Deferral Account Renat Grid Funding Adder Deferral Account Retail Cost Variance Account - STR Board-Approved CDM Variance Account	1508 1508 1508 1508 1508 1508 1508 1518 1525 1531 1532 1533 1534 1535 1536 1548 1567					\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -					\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
Extra-Ordinary Event Costs Deferred Rate Impact Amounts RSVA - One-time	1572 1574 1582					\$ - \$ - \$ -					\$ - \$ - \$ -
Other Deferred Credits	2425					\$ -					\$ -
Group 2 Sub-Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deferred Payments in Lieu of Taxes PILs and Tax Variance for 2006 and Subsequent Years (excludes sub-account and contra account below) PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1562 1592 1592					\$ - \$ -					\$ - \$ -
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

						200	5					
Account Descriptions	Account Number	Opening Principal Amounts as of Ja 1-05	Transactions Debit/ (Credit) during 2005 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2005	Adjustments during 2005 - other <sup>2</sup>	Closi Princi Balance Dec-3:	pal as of	Opening Interest Amounts as of Jan-1-05	Interest Jan-1 to Dec-31-05	Board-Approved Disposition during 2005	Adjustments during 2005 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-05
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521											
LRAM Variance Account	1568											
Total including Account 1521 and Account 1568		\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11	1555					\$	-					\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup> Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup>	1555 1555					\$	-					\$ - \$ -
Smart Meter OM&A Variance <sup>11</sup>	1556					\$	-					\$ -
The following is not included in the total claim but are included on a memo basis:  Deferred PILs Contra Account 5	1563 1575					\$	-					\$ -
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup> PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	15/5					\$	-					\$ -
Disposition and Recovery of Regulatory Balances <sup>7</sup>	1595					\$						\$ -

For all Board-Approved dispositions, please ensure that the disposition amount has the same sign (e.g. debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related Board decision.

- <sup>1</sup> Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs write-off, etc.
- 1A Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the 2006 EDR and account 1595 during the 2008 EDR and subsequent years as ordered by the Board.
- <sup>2</sup> Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved disposed balances, please provide amounts for adjustments and include supporting documentations.
- <sup>3</sup> For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.
- <sup>4</sup> Please describe "other" components of 1508 and add more component lines if necessary.
- <sup>5</sup> 1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the obligation to the ratepayer.
- If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December 31, 2012 on the December 31, 2013 and the December 31, 2013 had provided from January 1, 2012 to December 31, 2012 on the December 31, 2013 and the December 31, 2011 balance adjusted for the disposed balances approved by the Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from January 1, 2012 to December 31, 2013 on the December 31, 2011 balance adjusted for the disposed balances approved by the Board in the 2012 rate decision.
- 7 Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, include the balances in Account 1595 on a memo basis only (line 85).
- <sup>8</sup> As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:
- As per uncontainty of 2011 Extent inform the board, regarding the implementation of the ordination of
- <sup>9</sup> The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proceedings to set rates for the 2012 rate year, except in cases where this approach would have resulted in non-compliance with the timeline set out in section 8 of the SPC regulation.
- 10 Account 1575 shall not be cleared through the distributor's deferral and variance account rate rider. Account 1575 shall be cleared as an adjustment to the distributor's revenue requirement.
- 11 Deferral accounts related to Smart Meter deployment are not to be recovered/refunded through the Deferral and Variance Account rate rider. For details on how to dispose of balances in Smart Meter accounts see the Board's Guideline: Smart Meter Disposition and Cost Recovery (G-2011-0001)

						2006						
	Account Number	Opening Principal Amounts as of Ja 1-06	Transactions Debit/ (Credit) during 2006 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2006 <sup>1,1A</sup>	ments during 6 - other <sup>2</sup>	Closing Principal Balance as of Dec-31-06	Opening Interest Amounts a Jan-1-06	s of	Interest Jan-1 to Dec-31-06	Board-Approved Disposition during 2006 <sup>1,1A</sup>	Adjustments during 2006 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-06
Group 1 Accounts												
V Variance Account	1550	\$ -				\$ -	\$ -					\$ -
RSVA - Wholesale Market Service Charge	1580	\$ -				\$ -	\$ .					\$ -
RSVA - Retail Transmission Network Charge RSVA - Retail Transmission Connection Charge	1584 1586	\$ - \$ -				\$ - \$ -	\$ .					\$ -
RSVA - Retail Hansinission Connection Charge	1588	\$ -				\$ - \$ -	\$					s -
RSVA - Power - Sub-account - Global Adjustment	1588	\$ -				\$ -	\$ .					š -
Recovery of Regulatory Asset Balances	1590	\$ -				\$ -	\$	. [				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	\$ -				\$ -	\$	.				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595	\$ -				\$ -	\$	.				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	\$ -				\$ -	\$					\$ -
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		\$ -	\$	\$ -	\$ -	\$ -	\$		\$ -	\$ -	\$ -	\$ -
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		\$ -	\$ -	\$ -	\$	\$ -	\$		\$ -	\$ -	\$ -	\$ -
RSVA - Power - Sub-account - Global Adjustment	1588	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -
Group 2 Accounts												
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	s -				s -	•					
Other Regulatory Assets - Sub-Account - OEB Cost Assessments Other Regulatory Assets - Sub-Account - Pension Contributions	1508	\$ -				\$ - \$ -	\$					\$ - \$ -
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	\$ -				\$ -	\$ .					š -
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	,				•						·
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -												
Ontario Clean Energy Benefit Act <sup>8</sup>	1508											
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying	4500											
Charges Other Regulatory Assets - Sub-Account - Other <sup>4</sup>	1508 1508	s -				s -	s .					s -
Retail Cost Variance Account - Retail	1518	\$ - \$ -				\$ - \$ -	\$					s -
Misc. Deferred Debits	1525	\$ -				s -	\$					\$ -
Renewable Generation Connection Capital Deferral Account	1531	•				\$ -	\$ .	. [				\$ -
Renewable Generation Connection OM&A Deferral Account	1532					\$ -	\$	.				\$ -
Renewable Generation Connection Funding Adder Deferral Account	1533					\$ -	\$	. [				\$ -
Smart Grid Capital Deferral Account	1534 1535					\$ - \$ -	\$					\$ -   \$ -
Smart Grid OM&A Deferral Account Smart Grid Funding Adder Deferral Account	1535					\$ - \$ -	\$					S -
Retail Cost Variance Account - STR	1548	s -				s -	\$					S -
Board-Approved CDM Variance Account	1567	*				•	•					Ĭ
Extra-Ordinary Event Costs	1572	\$ -				\$ -	\$					\$ -
Deferred Rate Impact Amounts	1574	\$ -				\$ -	\$					\$ -
RSVA - One-time Other Deferred Credits	1582 2425	\$ - \$ -				\$ - \$ -	\$					S -
	2423	Ť				· -	Ψ					
Group 2 Sub-Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -
Deferred Payments in Lieu of Taxes	1562	\$ -				\$ -	\$					\$ -
PLs and Tax Variance for 2006 and Subsequent Years	1592	e				e	e					s -
		φ -				φ -	φ					· -
nput Tax Credits (ITCs)	1592	\$ -				\$ -	\$	.				\$ -
Fotal of Group 1 and Group 2 Accounts (including 1562 and 1592)		\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -
	1592	\$ - \$ - \$ -	\$	\$ -	\$ -	\$ - \$ - \$ -	\$	.	\$		- \$ -	- \$ - \$ -

							2006					
Account Descriptions	Account Number	Opening Principal Amounts as of 1-06	[an-	Transactions Debit / (Credit) during 2006 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2006 <sup>1,1A</sup>	Adjustments during 2006 - other <sup>2</sup>	Closing Principal Balance as of Dec-31-06	Opening Interest Amounts as of Jan-1-06	Interest Jan-1 to Dec-31-06	Board-Approved Disposition during 2006 <sup>1, 1A</sup>	Adjustments during 2006 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-06
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521											
LRAM Variance Account	1568											
Total including Account 1521 and Account 1568		\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11	1555	\$ -					\$ -	\$ -				s -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup>	1555	\$ -					\$ -	\$ -				\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup>	1555	\$ -					\$ -	\$ -				\$ -
Smart Meter OM&A Variance <sup>11</sup>	1556	\$ -					\$ -	\$ -				\$ -
The following is not included in the total claim but are included on a memo basis:												1
Deferred PILs Contra Account 5	1563	s -					s -	s -				s -
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup>	1575	\$ -					\$ -	\$ -				\$ -
PILs and Tax Variance for 2006 and Subsequent Years -	1592						_	_				_
Sub-Account HST/OVAT Contra Account Disposition and Recovery of Regulatory Balances <sup>7</sup>		\$ -					\$ -	\$ -				\$ -
Disposition and Recovery of Regulatory balances	1595	<b>&gt;</b> -					<b>&gt;</b> -	<b>&gt;</b> -				<b>&gt;</b> -

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig 
If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December? 
Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja 
balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:

"By any of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1

by abances in "Sub account Financial Assistance Payment and Recovery Variance - Unitario Clean Energy Benefit Act "will be

The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc

non-compliance with the timelies est out in section 8 of the SPC regulation.

							2007					
Account Descriptions	Account Number	Openir Princip Amounts as 1-07	al	Transactions Debit/ (Credit) during 2007 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2007	Adjustments during 2007 - other <sup>2</sup>	Closing Principal Balance as of Dec-31-07	Opening Interest Amounts as of Jan-1-07	Interest Jan-1 to Dec-31-07	Board-Approved Disposition during 2007	Adjustments during 2007 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-07
Group 1 Accounts												
LV Variance Account	1550	\$	- 1				\$ -	\$ -				\$ -
RSVA - Wholesale Market Service Charge	1580	\$	-				\$ -	\$ -				\$ -
RSVA - Retail Transmission Network Charge	1584	\$	-				\$ -	\$ -				\$ -
RSVA - Retail Transmission Connection Charge	1586 1588	\$	-				\$ -	\$ -				\$ -
RSVA - Power (excluding Global Adjustment) RSVA - Power - Sub-account - Global Adjustment	1588 1588	\$					\$ -	\$ - \$ -				\$ -
RSVA - Power - Sub-account - Global Adjustment Recovery of Regulatory Asset Balances	1588	\$					\$ -	\$ - \$ -				S -
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	s					•	s -				s -
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595	\$					ъ - е	s -				s -
Disposition and Recovery/Refund of Regulatory Balances (2009)  Disposition and Recovery/Refund of Regulatory Balances (2010)  7		\$					•	s -				
Disposition and Recovery/Returns of Regulatory Balances (2010)	1595	\$	-				\$ -	\$ -				\$ -
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		\$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RSVA - Power - Sub-account - Global Adjustment	1588	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Group 2 Accounts												
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	s					s -	s -				٠ .
Other Regulatory Assets - Sub-Account - Pension Contributions	1508	s					s -	\$ -				s -
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	s					\$ -	š -				š -
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	,	i				•					
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -			i									i
Ontario Clean Energy Benefit Act <sup>8</sup>	1508											
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying												
Charges	1508											
Other Regulatory Assets - Sub-Account - Other 4	1508	\$	-				\$ -	\$ -				\$ -
Retail Cost Variance Account - Retail	1518	\$	-				\$ -	\$ -				\$ -
Misc. Deferred Debits	1525	\$					\$ -	\$ -				\$ - S -
Renewable Generation Connection Capital Deferral Account Renewable Generation Connection OM&A Deferral Account	1531 1532						\$ -   \$ -					S -
Renewable Generation Connection Funding Adder Deferral Account	1533						s -					S -
Smart Grid Capital Deferral Account	1534		- 1				\$ -					S -
Smart Grid OM&A Deferral Account	1535		i				\$ -					s -
Smart Grid Funding Adder Deferral Account	1536		i				\$ -					\$ -
Retail Cost Variance Account - STR	1548	\$	-				\$ -	\$ -				\$ -
Board-Approved CDM Variance Account	1567											
Extra-Ordinary Event Costs	1572	\$	-				\$ -	\$ -				\$ -
Deferred Rate Impact Amounts RSVA - One-time	1574	\$ \$	-				\$ -	\$ -				\$ -
RSVA - One-time Other Deferred Credits	1582 2425	\$					\$ -	\$ - \$ -				\$ -
Group 2 Sub-Total		\$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deferred Payments in Lieu of Taxes	1562	s					¢	s -				s -
Deterred Payments in Lieu of Taxes PILs and Tax Variance for 2006 and Subsequent Years		Ф					<b>a</b> -	<b>э</b> -				ə -
(excludes sub-account and contra account below)	1592	s	.				s -	s -				s -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT	4500	ľ					-	Ŧ				7
Input Tax Credits (ITCs)	1592	\$	-				\$ -	\$ -				\$ -
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		¢		\$ -	s -	\$ -	e	٠ -	s -	<b>s</b> -	s -	s -

							2007					
Account Descriptions	Account Number	Opening Principal Amounts as of 1-07	Jan-	Transactions Debit/ (Credit) during 2007 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2007	Adjustments during 2007 - other <sup>2</sup>	Closing Principal Balance as of Dec-31-07	Opening Interest Amounts as of Jan-1-07	Interest Jan-1 to Dec-31-07	Board-Approved Disposition during 2007	Adjustments during 2007 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-07
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521											
LRAM Variance Account	1568											
Total including Account 1521 and Account 1568		\$	- \$	; -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	s -	\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11	1555	\$					\$ -	\$ -				s -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup>	1555	\$					\$ -	\$ -				\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup> Smart Meter OM&A Variance <sup>11</sup>	1555 1556	\$					\$ - \$ -	\$ - \$ -				\$ - \$ -
	1000	•					•	•				•
The following is not included in the total claim but are included on a memo basis:  Deferred PILs Contra Account 5	1563	e					e	e				e
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup>	1575	s					s -	s -				s -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	1592	\$					\$ -	.s -				\$ -
Disposition and Recovery of Regulatory Balances <sup>7</sup>	1595	\$					\$ -	\$ -				\$ -

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig 
If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December? 
Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja 
balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:
"By way of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1
balances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act 'will be
The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc
non-compliance with the timelies set out in section 8 of the SPC regulation.

							2008					
Account Descriptions	Account Number	Openin Princip Amounts as 1-08	il	Transactions Debit/ (Credit) during 2008 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2008	Adjustments during 2008 - other <sup>2</sup>	Closing Principal Balance as of Dec-31-08	Opening Interest Amounts as o Jan-1-08	Interest Jan-1 t f Dec-31-08	Board-Approved Disposition during 2008	Adjustments during 2008 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-08
Group 1 Accounts												
LV Variance Account	1550	\$	-				\$ -	\$ -				\$ -
RSVA - Wholesale Market Service Charge	1580	\$	-				\$ -	\$ -				\$ -
RSVA - Retail Transmission Network Charge	1584	\$	-				\$ -	\$ -				\$ -
RSVA - Retail Transmission Connection Charge RSVA - Power (excluding Global Adjustment)	1586 1588	\$ \$	-				\$ -	\$ - \$ -				\$ -
RSVA - Power (excluding Global Adjustment) RSVA - Power - Sub-account - Global Adjustment	1588	\$	-				\$ -	s -				\$ -
Recovery of Regulatory Asset Balances	1590	\$					\$ -	s -				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	s	-				\$ -	s -				
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595	\$	-				\$ -	s -				s -
Disposition and Recovery/Refund of Regulatory Balances (2009)  Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	\$	-				φ -	s -				9 -
Disposition and Recovery/Retund of Regulatory Balances (2010)	1595	2	-				2 -	\$ -				<b>5</b> -
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RSVA - Power - Sub-account - Global Adjustment	1588	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Group 2 Accounts												
•		_						_				
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	\$	-				\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Pension Contributions Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508 1508	\$	-				\$ -	\$ - \$ -				\$ - S -
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	Þ	-				<b>3</b> -	\$ -				<b>3</b> -
Other Regulatory Assets - Sub-Account - Incremental Capital Charges  Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -	1500											
Ontario Clean Energy Benefit Act <sup>8</sup>	1508											
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying							i					
Charges	1508											
Other Regulatory Assets - Sub-Account - Other 4	1508	\$	-				\$ -	\$ -				\$ -
Retail Cost Variance Account - Retail	1518	\$	-				\$ -	\$ -				\$ -
Misc. Deferred Debits	1525	\$	-				\$ -	\$ -				\$ -
Renewable Generation Connection Capital Deferral Account	1531						\$ -					\$ -
Renewable Generation Connection OM&A Deferral Account	1532						\$ -   \$ -					\$ -   \$ -
Renewable Generation Connection Funding Adder Deferral Account Smart Grid Capital Deferral Account	1533 1534						\$ -   \$ -					S -
Smart Grid OM&A Deferral Account	1535						s -					s -
Smart Grid Funding Adder Deferral Account	1536						\$ -					s -
Retail Cost Variance Account - STR	1548	\$	-				\$ -	\$ -				\$ -
Board-Approved CDM Variance Account	1567											
Extra-Ordinary Event Costs	1572	\$	-				\$ -	\$ -				\$ -
Deferred Rate Impact Amounts	1574	\$	-				\$ -	\$ -				\$ -
RSVA - One-time Other Deferred Credits	1582 2425	\$ \$	-				\$ -	\$ -				\$ -
	2425	Ť					\$ -	\$ -				
Group 2 Sub-Total		\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deferred Payments in Lieu of Taxes	1562	\$	-				\$ -	\$ -				\$ -
PILs and Tax Variance for 2006 and Subsequent Years	1592											
(excludes sub-account and contra account below)		\$	-				\$ -	\$ -				\$ -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	\$	_				s -	s -				s -
		Ľ						-				
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		I										

							2008					
Account Descriptions	Account Number	Opening Principal Amounts as of 1-08		Transactions Debit/ (Credit) during 2008 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2008	Adjustments during 2008 - other <sup>2</sup>	Closing Principal Balance as o Dec-31-08	Opening Interest Amounts as of Jan-1-08	Interest Jan-1 to F Dec-31-08	Board-Approved Disposition during 2008	Adjustments during 2008 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-08
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521											
LRAM Variance Account	1568											
Total including Account 1521 and Account 1568		\$	-	\$ -	\$ -	\$ -	\$ -	<b>s</b> -	\$ -	\$ -	s -	\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11	1555	\$					\$ -	s -				s -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup>	1555	\$	- 1				\$ -	\$ -				\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup>	1555	\$	-				\$ -	\$ -				\$ -
Smart Meter OM&A Variance <sup>11</sup>	1556	\$	-				\$ -	\$ -				\$ -
The following is not included in the total claim but are included on a memo basis:												1
Deferred PILs Contra Account 5	1563	s					s -	s -				s -
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup>	1575	\$					\$ -	s -				s -
PILs and Tax Variance for 2006 and Subsequent Years -	1592											
Sub-Account HST/OVAT Contra Account		\$	-				\$ -	\$ -				\$ -
Disposition and Recovery of Regulatory Balances <sup>7</sup>	1595	\$	-				\$ -	\$ -				\$ -

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig 
If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December? 
Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja 
balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:

"By any of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1

by abances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act "will be

The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc

non-compliance with the timelies est out in section 8 of the SPC regulation.

									20	009										
Account Descriptions	Account Number	Openi Princi Amounts a 1-09	oal s of Jan-	(Cre-	nsactions Debit/ dit) during 2009 ding interest and djustments <sup>3</sup>		l-Approved sition during 2009	Adjustments during 2009 - other <sup>2</sup>	Pri Bala	losing incipal nce as of ec-31-09	Oper Inte Amoun Jan-	rest ts as of		: Jan-1 to 31-09	Board-App Disposi during 2	tion	Adjusti during othe	2009 -	Amor	ng Interest ounts as of ec-31-09
Group 1 Accounts																				
LV Variance Account	1550	\$		\$	33,803				\$		\$	-	\$	544					\$	544
RSVA - Wholesale Market Service Charge	1580	\$		-\$	569,587				-\$	,	\$	-	-\$	9,253					-\$	9,253
RSVA - Retail Transmission Network Charge	1584	\$		\$	136,182				\$		\$		-\$	1,078					-\$	1,078
RSVA - Retail Transmission Connection Charge	1586 1588	\$		\$	42,059				\$		\$	-	\$	621 853					\$	621
RSVA - Power (excluding Global Adjustment) RSVA - Power - Sub-account - Global Adjustment	1588	s s		-\$ \$	66,361 1,052,065				-\$   \$ 1	,	\$ \$	-	-\$ -\$	6,904					-\$ -\$	853 6.904
Recovery of Regulatory Asset Balances	1590	S S		э -\$	96,314				-S	96,314			-\$ -\$	1,675					-ş -s	1,675
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	s	-	-φ	50,514				s		s		-φ	1,075					s s	1,075
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595	\$	-			s	2,863,639		-		s S		\$		-\$ 27	2.378			s	272,378
Disposition and Recovery/Refund of Regulatory Balances (2009)  Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	\$	-			φ	2,003,039		-p 2	, ,	\$	-	φ		-φ 21.	2,310			٥	212,318
Disposition and Recovery/Reland of Regulatory Balances (2010)	1595	<b>\$</b>	-						ъ	-	Þ	-							\$	-
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		\$	-	\$	531,847	\$	2,863,639	\$ -	-\$ 2	2,331,792	\$	-	-\$	18,598	-\$ 27	2,378	\$	-	\$	253,780
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		\$		-\$	520,218	\$	2,863,639	\$ -	-\$ 3	3,383,857	\$	-	-\$	11,694	-\$ 27	2,378	\$	-	\$	260,684
RSVA - Power - Sub-account - Global Adjustment	1588	\$	-	\$	1,052,065	\$	-	\$ -	\$ 1	,052,065	\$	-	-\$	6,904	\$	-	\$	-	-\$	6,904
Group 2 Accounts																				
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	s							s		s								•	
Other Regulatory Assets - Sub-Account - Pension Contributions	1508	\$							\$		s	-							s	
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	s	-	\$	2,328				\$		s	_							Š	_
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	s		\$	475				\$	475		_	\$	363					s	363
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -																				Į.
Ontario Clean Energy Benefit Act <sup>8</sup>	1508								\$	-	\$	-							\$	-
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying																				
Charges	1508								\$		\$	-							\$	-
Other Regulatory Assets - Sub-Account - Other 4	1508	\$	-						\$		\$	-							\$	-
Retail Cost Variance Account - Retail	1518	\$ \$	-						\$		\$	-							\$	-
Misc. Deferred Debits Renewable Generation Connection Capital Deferral Account	1525 1531	\$	-						\$		\$ \$	-							\$	-
Renewable Generation Connection OM&A Deferral Account	1531								Q.		\$								S	
Renewable Generation Connection Funding Adder Deferral Account	1533								S		\$								s	
Smart Grid Capital Deferral Account	1534								\$		\$	-							Š	_
Smart Grid OM&A Deferral Account	1535			\$	20,963				\$	20,963	\$	-	\$	7					\$	7
Smart Grid Funding Adder Deferral Account	1536								\$	-	\$	-							\$	-
Retail Cost Variance Account - STR	1548	\$	-						\$	-	\$	-							\$	-
Board-Approved CDM Variance Account	1567																		\$	-
Extra-Ordinary Event Costs	1572	\$	-						\$		\$	-							\$	-
Deferred Rate Impact Amounts RSVA - One-time	1574 1582	\$	-	-\$	440,712				-\$		\$ \$	-							\$	-
Other Deferred Credits	2425	\$							\$		\$								\$ \$	-
Group 2 Sub-Total		\$		-\$	416,946	\$		\$ -	-\$	416,946	\$		\$	370	\$	_	\$		\$	370
Deferred Payments in Lieu of Taxes	1562	s							e		s								s	l
PILs and Tax Variance for 2006 and Subsequent Years	1592	, , , , , , , , , , , , , , , , , , ,							Þ	-	ý	-							٥	- 1
(excludes sub-account and contra account below)	1092	\$	-						\$	-	\$	-							\$	-
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	\$	-						\$	-	\$	-							\$	-
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		\$		\$	114,901	\$	2,863,639	\$ -	-\$ 2	2,748,738	\$		-\$	18,228	-\$ 27	2,378	\$		\$	254,150

						2009							
Account Number	Opening Principal Amounts as of Jan 1-09	(	Credit) during 2009	Board-Approved Disposition during 2009	Adjustments during 2009 - other <sup>2</sup>	Principal Balance as	Interes of Amounts a	s of	Interest Jan-1 to Dec-31-09	Board-Approved Disposition during 2009	Adjustments during 2009 - other <sup>2</sup>	An	osing Interest mounts as of Dec-31-09
1521													
1568													
	\$ -	\$	114,901	\$ 2,863,639	\$ -	-\$ 2,748,7	38 \$	-	-\$ 18,228	-\$ 272,378	\$ -	\$	254,150
1555	\$ -	2	519 527			Ÿ			-\$ 23,478			-\$	23,478
1555	\$ -					\$ -	\$	-	\$ 8 180			\$	8,189
1000		•	200,117			Ψ 200,	•		ψ 0,100			·	0,100
1563 1575	\$ - \$ -					\$ - \$ -	\$ \$	-				\$	-
1592	\$ -					\$ -	\$	-				\$	-
	1521 1568 1555 1555 1556 1563 1575	Account Number Amounts as of Jar 1-09  1521  1568  \$ - 1555 \$ - 15	Account   Principal   0	Account Number Amounts as of January 1-09 amounts as of January 1-09 excluding interest and adjustments 3  1521  1568  \$ - \$ 114,901  1555 \$ - \$ 518,527  1556 \$ - \$ 250,417  1563 \$ - \$ 250,417	Account Number   Amounts as of January   Account Number   Amounts as of January   Amounts as of Janu	Account Number   Amounts as of January   Adjustments during 2009   Board-Approved Disposition during 2009 - other 2	Account Number   Adjustments during 2009 - other 2   Adjustments during 2009 - other	Account Number   Acco	Account Number   Acco	Account Number   Acco	Account Number   Acco	Account Number   Acco	Account Number   Acco

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig 
If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December? 
Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja 
balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

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"By way of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1
balances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act 'will be
The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc
non-compliance with the timelies set out in section 8 of the SPC regulation.

										2	2010										
Account Descriptions	Account Number	P	Opening 'rincipal ints as of Jan- 1-10	(C	ransactions Debit/ Credit) during 2010 Eluding interest and adjustments <sup>3</sup>		d-Approved sition during 2010		tments during 10 - other <sup>2</sup>	Ва	Closing Principal alance as of Dec-31-10	I Amo	opening nterest ounts as of an-1-10		est Jan-1 to ec-31-10	Board-App Disposi during 2	ion	Adjustme during 20 other	010 -	Amo	ing Interest ounts as of ec-31-10
Group 1 Accounts																					
LV Variance Account	1550	\$	33,803		34,065					-\$		\$		\$	12					\$	556
RSVA - Wholesale Market Service Charge	1580	-\$	569,587		1,155,719					-\$	.,. ==,	-\$	-,	-\$	9,060					-\$	18,313
RSVA - Retail Transmission Network Charge	1584	\$	136,182		408,212					\$	544,394		1,078		2,638					\$	1,560
RSVA - Retail Transmission Connection Charge	1586	\$	42,059		30,753					\$		\$		-\$	734					-\$ S	113
RSVA - Power (excluding Global Adjustment) RSVA - Power - Sub-account - Global Adjustment	1588 1588	-\$ \$	66,361 1,052,065		192,891 279,903					\$	126,530 1,331,968	-\$ -\$	853 6,904	\$	14,549 5,150					-S	13,696 12,054
Recovery of Regulatory Asset Balances	1590	-S	96,314		11,429					-S	107,743		1,675		827					-ş -S	2,502
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	-9	30,314	-φ	11,429					-φ \$	107,743	-ş S	1,075	-φ	021					s	2,502
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595	-\$	2,863,639	e	1,808,280	e				-\$	1,055,359	S	272,378	-\$	15,348	e				s	257,030
Disposition and Recovery/Refund of Regulatory Balances (2009)  Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	-9	2,003,039	Ф	1,000,200	Þ	-			-Þ	1,000,009	s	212,310	- <b>⊅</b>	15,346	Ф				è	257,030
Disposition and Recovery/Retund of Regulatory Balances (2010)	1595	э	-							э	-	\$	-							\$	-
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		-\$	2,331,792	\$	1,457,320	\$	-	\$		-\$	874,472	\$	253,780	-\$	13,920	\$	-	\$	-	\$	239,860
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		-\$	3,383,857	\$	1,177,417	\$	-	\$		-\$	2,206,440	\$	260,684	-\$	8,770	\$	-	\$	-	\$	251,914
RSVA - Power - Sub-account - Global Adjustment	1588	\$	1,052,065	\$	279,903	\$	-	\$	-	\$	1,331,968	-\$	6,904	-\$	5,150	\$	-	\$	-	-\$	12,054
Group 2 Accounts																					
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	\$	-							\$	-	\$	-							\$	-
Other Regulatory Assets - Sub-Account - Pension Contributions	1508	\$	-							\$	-	\$	-							\$	-
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	\$	2,328	\$	41,343					\$	43,671	\$	-	\$	156					\$	156
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	\$	475							\$	475	\$	363							\$	363
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -																					
Ontario Clean Energy Benefit Act <sup>8</sup>	1508	\$	- !							\$	-	\$	-							\$	-
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying Charges	1508	_										•								s	
Other Regulatory Assets - Sub-Account - Other <sup>4</sup>	1508	\$	-							\$	-	s	-							s	-
Retail Cost Variance Account - Retail	1518	\$	-							\$	-	S	-							s	-
Misc. Deferred Debits	1525	s s								\$		s								s	
Renewable Generation Connection Capital Deferral Account	1531	s s						S	10.852		10.852	s								s	
Renewable Generation Connection OM&A Deferral Account	1532	\$	-					\$	19,690	\$	19,690	\$	-							\$	-
Renewable Generation Connection Funding Adder Deferral Account	1533	\$	-							\$	-	\$	-							\$	-
Smart Grid Capital Deferral Account	1534	\$	-							\$	-	\$	-							\$	-
Smart Grid OM&A Deferral Account	1535	\$	20,963	\$	17,331					\$	38,294	\$	7	\$	153					\$	160
Smart Grid Funding Adder Deferral Account	1536	\$								\$	-	\$	-							\$	-
Retail Cost Variance Account - STR Board-Approved CDM Variance Account	1548 1567	\$	-							\$	-	\$ \$	-							\$ \$	-
Extra-Ordinary Event Costs	1572	s								\$	-	s S	-							s	-
Deferred Rate Impact Amounts	1574	-\$	440.712	-\$	881.424					-\$	1.322.136	s	- :	-\$	7,267					-S	7,267
RSVA - One-time	1582	\$		•	001,121					\$	-	Š	-	•	7,207					Š	
Other Deferred Credits	2425	\$	-							\$	-	\$	-							\$	-
Group 2 Sub-Total		-\$	416,946	-\$	822,750	\$	-	\$	30,542	-\$	1,209,154	\$	370	-\$	6,958	\$	-	\$	-	-\$	6,588
Deferred Payments in Lieu of Taxes	1562	\$						e		s		s								s	
PILs and Tax Variance for 2006 and Subsequent Years		φ						φ		φ	-	Ģ	-							Ģ	-
(excludes sub-account and contra account below)	1592	s								\$		s								s	-
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT	1500	ľ								_		-								-	
Input Tax Credits (ITCs)	1592	\$	-							\$	-	\$	-							\$	-
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		-\$	2,748,738	\$	634,570	\$	-	\$	30,542	-\$	2,083,626	\$	254,150	-\$	20,878	\$	-	\$	-	\$	233,272

									2	2010								
Account Descriptions	Account Number	I	Opening Principal unts as of Jan- 1-10	(Crec	sactions Debit/ lit) during 2010 ling interest and ljustments <sup>3</sup>	Board-Approved Disposition during 2010		ustments during 2010 - other <sup>2</sup>	Ва	Closing Principal alance as of Dec-31-10	Amo	pening nterest unts as of nn-1-10		st Jan-1 to c-31-10	Board-Approved Disposition during 2010	Adjustments during 2010 - other <sup>2</sup>	Am	ing Interest ounts as of Dec-31-10
Special Purpose Charge Assessment Variance Account <sup>8</sup>	1521	\$	378,888	-\$	232,810		-\$	138,090	\$	7,988			\$	1,718			\$	1,718
LRAM Variance Account	1568								\$	-							\$	-
Total including Account 1521 and Account 1568		-\$	2,369,850	\$	401,760	\$ -	-\$	107,548	-\$	2,075,638	\$	254,150	-\$	19,160	\$ -	\$ -	\$	234,990
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11	1555	\$		\$	6,014,205					6,014,205		23,478	\$	22,418			-\$	1,060
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup> Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup>	1555 1555	-\$ \$	518,527 -	-\$	1,014,159				-\$ \$	1,532,686	\$ \$	-					\$	
Smart Meter OM&A Variance <sup>11</sup>	1556	\$	250,417	\$	236,313				\$	486,730	\$	8,189	\$	2,558			\$	10,747
The following is not included in the total claim but are included on a memo basis:  Deferred PILs Contra Account <sup>5</sup>	1563	s							s		s						s	
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup>	1575	\$	-						\$		\$	-					\$	-
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	1592	\$	-						\$	-	\$	-					\$	-
Disposition and Recovery of Regulatory Balances <sup>7</sup>	1595	\$	-						\$		\$	-					\$	-

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig 
If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December? 
Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja 
balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:

"By any of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1

by abances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act "will be

The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc

non-compliance with the timelies est out in section 8 of the SPC regulation.

							201	1						
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1-11	Transactions Debit/ (Credit) during 2011 excluding interest and adjustments <sup>3</sup>	Board-Approved Disposition during 2011	Other <sup>2</sup> Adjustments during Q1 2011	o Other <sup>2</sup> Adjustments during Q2 2011	Other <sup>2</sup> Adjustments during Q3 2011	Other <sup>2</sup> Adjustments during Q4 2011	Closing Principal Balance as of Dec-31-11	Opening Interest Amounts as of Jan-1-11	Interest Jan-1 to Dec-31-11	Board-Approved Disposition during 2011	Adjustments during 2011 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-11
Group 1 Accounts														
LV Variance Account	1550	-\$ 262								\$ 556				\$ 143
RSVA - Wholesale Market Service Charge	1580	-\$ 1,725,306							-\$ 2,811,744					-\$ 49,256
RSVA - Retail Transmission Network Charge	1584	\$ 544,394							\$ 452,313					\$ 10,473
RSVA - Retail Transmission Connection Charge	1586	\$ 11,306								-\$ 113				-\$ 1,169
RSVA - Power (excluding Global Adjustment)	1588 1588	\$ 126,530 \$ 1,331,968							-\$ 233,022					\$ 54,005 -\$ 27,789
RSVA - Power - Sub-account - Global Adjustment Recovery of Regulatory Asset Balances	1588	\$ 1,331,968 -\$ 107,743		)					\$ 1,418,514 -\$ 107,743					-\$ 27,789 -\$ 1,883
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	-\$ 107,743								-\$ 2,502 \$ -	\$ 618			\$ -
Disposition and Recovery/Refund of Regulatory Balances (2006)  Disposition and Recovery/Refund of Regulatory Balances (2009)  The property of the property Balances (2009) and the property Balances (	1595	\$ - -\$ 1,055,359	\$ 758,97						*	\$ 257,030	-\$ 6,712	•		\$ 250,318
		-\$ 1,055,359	\$ 758,97						-\$ 296,388		-\$ 6,712	\$ -		
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	\$ -							\$ -	\$ -				\$ -
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		-\$ 874,472	-\$ 627,79	\$ \$ -	\$ -	\$ -	\$ -	\$ -	-\$ 1,502,268	\$ 239,860	-\$ 5,018	\$ -	\$ -	\$ 234,842
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		-\$ 2,206,440			\$ -	\$ -	\$ -			\$ 251,914			\$ -	\$ 262,631
RSVA - Power - Sub-account - Global Adjustment	1588	\$ 1,331,968	\$ 86,54	3 \$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,418,514	-\$ 12,054	-\$ 15,735	\$ -	\$ -	-\$ 27,789
Group 2 Accounts														
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	s -							s -	\$ -				S -
Other Regulatory Assets - Sub-Account - Pension Contributions	1508	\$ -							s -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	\$ 43,671	\$ 38,31	1					\$ 81,985	\$ 156	\$ 725			\$ 881
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	\$ 475	\$ 3,38	3					\$ 3,858	\$ 363	\$ 94			\$ 457
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -														
Ontario Clean Energy Benefit Act <sup>8</sup>	1508	\$ -							\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying		_							_	_				
Charges	1508	\$ -							\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Other <sup>4</sup>	1508	\$ -							\$ -	\$ -				\$ -
Retail Cost Variance Account - Retail Misc. Deferred Debits	1518 1525	\$ - \$ -							\$ -	\$ - \$ -				\$ -
Renewable Generation Connection Capital Deferral Account	1525	\$ 10.852							\$ 10.852	s -				9 -
Renewable Generation Connection OM&A Deferral Account	1532	\$ 19,690								s -				s -
Renewable Generation Connection Funding Adder Deferral Account	1533	\$ -								s -				s -
Smart Grid Capital Deferral Account	1534	\$ -							\$ -	\$ -				s -
Smart Grid OM&A Deferral Account	1535	\$ 38,294	\$ 8,43	2					\$ 46,726	\$ 160	\$ 743			\$ 903
Smart Grid Funding Adder Deferral Account	1536	\$ -							\$ -	\$ -				\$ -
Retail Cost Variance Account - STR	1548	\$ -							\$ -	\$ -				\$ -
Board-Approved CDM Variance Account	1567	\$ -							\$ -	\$ -				\$ -
Extra-Ordinary Event Costs	1572	\$ -								\$ -				\$ -
Deferred Rate Impact Amounts RSVA - One-time	1574 1582	-\$ 1,322,136 \$ -	-\$ 871,42						-\$ 2,193,560	-\$ 7,267 \$ -	-\$ 25,373			-\$ 32,640 \$ -
Other Deferred Credits	2425	\$ -							\$ -	\$ -				\$ -
Group 2 Sub-Total		-\$ 1,209,154	-\$ 821,29	5 \$ -	\$ -	\$ -	\$ -	\$ -	-\$ 2,030,449	-\$ 6,588	-\$ 23,811	\$ -	\$ -	-\$ 30,399
Deferred Payments in Lieu of Taxes	1562	s -						-\$ 219,257	-\$ 219,257	s -	\$ 64,116			\$ 64,116
PILs and Tax Variance for 2006 and Subsequent Years		-						210,201	210,201	-	ψ <del>04</del> ,110			ψ 0 <del>1</del> ,110
(excludes sub-account and contra account below)	1592	\$ -							s -	s -				\$ -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT	1592	1							-	-				i i
Input Tax Credits (ITCs)	1592	\$ -							\$ -	\$ -				\$ -
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		-\$ 2,083,626	-\$ 1,449,09	- \$	\$ -	\$ -	\$ -	-\$ 219,257	-\$ 3,751,974	\$ 233,272	\$ 35,287	\$ -	\$ -	\$ 268,559

								201	1								
Account Descriptions	Account Number	Opening Principal Amounts as of 1-11	(Credit) Jan- excludin	tions Debit/ during 2011 g interest and stments <sup>3</sup>	Board-Approved Disposition during 2011	Other <sup>2</sup> Adjustments during Q1 2011	Other <sup>2</sup> Adjustments during Q2 2011	Other <sup>2</sup> Adjustments during Q3 2011	Other <sup>2</sup> Adjustments during Q4 2011	Closing Principal Balance as of Dec-31-11	Ope Inte Amoun Jan-	rest ts as of	Interest Jan-1 to Dec-31-11	Board-Approved Disposition during 2011	Adjustments during 2011 - other <sup>2</sup>		g Interest nts as of -31-11
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521	\$ 7,9	38							\$ 7,988	3 \$	1,718	\$ 157			\$	1,875
LRAM Variance Account	1568	\$ -								\$ -	\$	-				\$	-
Total including Account 1521 and Account 1568		-\$ 2,075,6	38 -\$	1,449,091	\$ -	\$ -	\$ -	\$ -	-\$ 219,257	-\$ 3,743,986	5 \$ 2	34,990	\$ 35,444	\$ -	\$ -	\$	270,434
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11	1555	\$ 6,014,2	05 \$	767,424						\$ 6,781,629	9 -\$	1,060	\$ 40,535			\$	39,475
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup>	1555	-\$ 1,532,6	36 -\$	1,099,644						-\$ 2,632,330	) \$	-				\$	-
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup>	1555	\$ -								\$ -	\$	-				\$	-
Smart Meter OM&A Variance <sup>11</sup>	1556	\$ 486,7	30 \$	350,353						\$ 837,083	\$ \$	10,747	\$ 8,616			\$	19,363
The following is not included in the total claim but are included on a memo basis:																	ı
Deferred PILs Contra Account 5	1563	s -								s -	s					s	_
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup>	1575	\$ -								\$ -	s					\$	-
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	1592	\$ -								s -	s					\$	_
Disposition and Recovery of Regulatory Balances <sup>7</sup>	1595	\$ -								\$ -	\$	-				\$	-
										\$ -	\$	-				\$	

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December 3 Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:
"By way of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1
balances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act 'will be
The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc
non-compliance with the timelies set out in section 8 of the SPC regulation.



			2	2012		Projected Inte	erest on Dec-31-1	l Balances	2.1.7 RRR		
Account Descriptions	Account Number	Principal Disposition during 2012 - instructed by Board	Interest Disposition during 2012 - instructed by Board	Closing Principal Balances as of Dec 31- Adjusted for Dispositions during 2012	Adjusted for	Projected Interest from Jan 1, 2012 to December 31, 2012 on Dec 31 -11 balance adjusted for disposition during 2012 <sup>6</sup>	Projected Interest from January 1, 2013 to April 30, 2013 on Dec 31 -11 balance adjusted for disposition during 2012 <sup>6</sup>	Total Claim	As of Dec 31-11	Variance RRR vs. 2011 Balance (Principal + Interest)	
Group 1 Accounts											
LV Variance Account	1550			\$ 15,297	° \$ 143	\$ 225	\$ 75 \$	15,740	\$ 15,440	s -	
RSVA - Wholesale Market Service Charge	1580			-\$ 2,811,744	-\$ 49,256	-\$ 41,333	-\$ 13,778 -\$	2,916,111	-\$ 2,861,000	\$ -	
RSVA - Retail Transmission Network Charge	1584			\$ 452,313	\$ 10,473			471,651	\$ 462,786		
RSVA - Retail Transmission Connection Charge	1586			\$ 60,505				60,522			
RSVA - Power (excluding Global Adjustment)	1588			-\$ 233,022				183,584	-\$ 179,017		
RSVA - Power - Sub-account - Global Adjustment	1588 1590			\$ 1,418,514 -\$ 107,743				1,418,528	\$ 1,390,725 -\$ 428,073		
Recovery of Regulatory Asset Balances								111,738	-\$ 428,073	-\$ 318,447	
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595			*	\$ -	\$ -				\$ -	
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595			-\$ 296,388		-\$ 4,357		51,879	\$ 272,378	\$ 318,448	
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595			\$ -	\$ -	\$ -	\$	-		\$ -	
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		\$ -	\$ -	-\$ 1,502,268	\$ 234,842	-\$ 22,083	-\$ 7,361 -\$	1,296,870	-\$ 1,267,425	\$ 1	ĺ
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		\$ -	\$ -	-\$ 2,920,782					-\$ 2,658,150		
RSVA - Power - Sub-account - Global Adjustment	1588	\$ -	\$ -	\$ 1,418,514	\$ -\$ 27,789	\$ 20,852	\$ 6,951 \$	1,418,528	\$ 1,390,725	s -	
Group 2 Accounts											
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508			\$ -	\$ -	\$ -	\$ - \$	-		s -	
Other Regulatory Assets - Sub-Account - Pension Contributions	1508			\$ -	\$ -	\$ -	\$ - \$	-		\$ -	
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	-\$ 43,934		\$ 125,919		\$ 1,493		128,910	\$ 82,866		
Other Regulatory Assets - Sub-Account - Incremental Capital Charges Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -	1508			\$ 3,858	3 \$ 457	\$ 57	\$ 19 \$	4,391	\$ 4,315	s -	362.5 is in here but now written off
Ontario Clean Energy Benefit Act <sup>8</sup>	1508			\$ -	\$ -	\$ -	\$ - \$	-		s -	
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying											
Charges	1508			\$ -	\$ -	\$ -	\$ - \$	-		\$ -	
Other Regulatory Assets - Sub-Account - Other <sup>4</sup>	1508			\$ -	\$ -	\$ -	\$ - \$	-		\$ -	
Retail Cost Variance Account - Retail	1518			\$ - \$ -	\$ -	-	\$ - \$	-		\$ -	
Misc. Deferred Debits Renewable Generation Connection Capital Deferral Account	1525 1531			\$ - \$ 10,852	\$ - • \$ -	\$ - \$ 160		11,065	\$ 1,582 \$ 10,852		written off in 2012 - assumed 2011 writeoff - n
Renewable Generation Connection Capital Deferral Account	1532			\$ 19,690		\$ 289		20,076	\$ 19,690		
Renewable Generation Connection Funding Adder Deferral Account	1533			\$ -	,	\$ -	\$ - \$	20,010	10,000	s -	
Smart Grid Capital Deferral Account	1534			\$ -	\$ -	\$ -	\$ - \$			s -	
Smart Grid OM&A Deferral Account	1535			\$ 46,726	\$ 903	\$ 687	\$ 229 \$	48,545	\$ 47,629	s -	ĺ
Smart Grid Funding Adder Deferral Account	1536			\$ -	\$ -	\$ -	\$ - \$	-		s -	ĺ
Retail Cost Variance Account - STR	1548			\$ -	\$ -	\$ -	\$ - \$	-		\$ -	
Board-Approved CDM Variance Account	1567			\$ -	\$ -	\$ -	\$ - \$	-		\$ -	
Extra-Ordinary Event Costs	1572	0 040 450	00.000	\$ -	\$ -	\$ -	\$ - \$	-	A 0000 000	\$ -	
Deferred Rate Impact Amounts RSVA - One-time	1574 1582	-\$ 842,450	-\$ 32,968	-\$ 1,351,110 \$ -	) \$ 328 \$ -	-\$ 19,861 \$ -	-\$ 6,620 -\$ \$ - \$	1,377,264	-\$ 2,226,200	\$ - \$ -	ĺ
Other Deferred Credits	2425			\$ -	\$ -	\$ -				\$ -	
Group 2 Sub-Total		-\$ 886,384	-\$ 32,968	-\$ 1,144,066	\$ \$ 2,569	-\$ 17,176	-\$ 5,606 -\$	1,164,278	-\$ 2,059,267	\$ 1,582	
Deferred Payments in Lieu of Taxes	1562	-\$ 219,257	\$ 63,041	\$ -	\$ 1,074	-\$ 1,074	\$ - \$	0	-\$ 134,182	\$ 20,959	adj in 2012 to balance - revised rate order - bo
PILs and Tax Variance for 2006 and Subsequent Years	1592										ĺ
(excludes sub-account and contra account below)		\$ 119,542	\$ 7,087	-\$ 119,542	2 -\$ 7,087	-\$ 1,757	-\$ 586 -\$	128,971		\$ -	ĺ
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	\$ 125,135	\$ 783	-\$ 125,135	5 -\$ 783	-\$ 1,332	-\$ 586 -\$	127,837		s -	
										\$ -	
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		-\$ 860,964	\$ 37,943	-\$ 2,891,010	30,616	-\$ 43,423	-\$ 14,139 -\$	2,717,956	-\$ 3,460,874	\$ 22,542	

					2	201	2			P	rojected Inte	rest on Dec-31-	11 Balances	2.1	.7 RRR	
Account Descriptions	Account Number	Di dur ins	rincipal sposition ing 2012 - ructed by Board	Di: dur inst	Interest sposition ring 2012 - tructed by Board	Balane	osing Principal ces as of Dec 31-11 Adjusted for positions during 2012	Balan	Closing Interest nces as of Dec 31-11 Adjusted for ositions during 2012	2012 Dec 3	ected Interest from Jan 1, 2 to December 31, 2012 on 31-11 balance adjusted for sposition during 2012 <sup>6</sup>	Projected Interest from January 1, 2013 to April 30, 2013 on Dec 31 -11 balance adjusted for disposition during 2012 <sup>6</sup>	Total Claim	As	of Dec 31-11	Variance RRR vs. 2011 Balance (Principal + Interest)
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521	\$	7,988	\$	1,875	\$	-	\$					\$ -	\$	10,596	\$ 733
LRAM Variance Account	1568	-\$	91,401	-\$	2,068	\$	91,401	\$	2,068			\$ 448	\$ 93,917			\$ - \$ -
Total including Account 1521 and Account 1568		-\$	944,377	\$	37,750	-\$	2,799,609	\$	232,684	-\$	43,423	-\$ 13,691	-\$ 2,624,039	-\$	3,450,278	\$ 23,274
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital <sup>11</sup>	1555					\$	6,781,629	\$	39,475				\$ 6,821,103	\$	6,821,103	s -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries <sup>11</sup>	1555					-\$	2,632,330	\$	-	-\$	38,695	-\$ 12,898	-\$ 2,683,924	-\$	2,632,330	\$ -
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs <sup>11</sup>	1555	-\$	1,193,861			\$	1,193,861	\$	-	\$		\$ -	\$ 1,193,861			s -
Smart Meter OM&A Variance <sup>11</sup>	1556					\$	837,083	\$	19,363	\$	12,305	\$ 4,102	\$ 872,853	\$	856,446	\$ -
The following is not included in the total claim but are included on a memo basis:																
Deferred PILs Contra Account <sup>5</sup>	1563					\$	-	\$	-	\$	-	\$ -	\$ -	\$	7,413	\$ 7,413
IFRS-CGAAP Transition PP&E Amounts <sup>10</sup>	1575					\$	-	\$		\$		\$ -	\$ -			\$ -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	1592	-\$	125,135	-\$	783	\$	125,135	\$	783	\$	1,332	\$ 586	\$ 127,837			s -
Disposition and Recovery of Regulatory Balances <sup>7</sup>	1595	-\$	7,988	-\$	1,875	\$	7,988	\$	1,875				\$ 9,863			\$ -
						\$	-	\$	-				S -			

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs wri Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved dispx For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblig If the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December 3 Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from Ja balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refunc balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit:

"By any of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1

by abances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act "will be

The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc

non-compliance with the timelies est out in section 8 of the SPC regulation.



Account Descriptions	Account Number	
Group 1 Accounts		-
LV Variance Account	1550	
RSVA - Wholesale Market Service Charge	1580	
RSVA - Retail Transmission Network Charge	1584	
RSVA - Retail Transmission Connection Charge	1586	
RSVA - Power (excluding Global Adjustment)	1588	
RSVA - Power - Sub-account - Global Adjustment	1588	
Recovery of Regulatory Asset Balances	1590	
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>7</sup>	1595	
Disposition and Recovery/Refund of Regulatory Balances (2009)	1595	
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment) RSVA - Power - Sub-account - Global Adjustment	1588	
KSVA - Power - Sub-account - Global Adjustment	1300	
Group 2 Accounts		
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	
Other Regulatory Assets - Sub-Account - Pension Contributions	1508	
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	
Other Regulatory Assets - Sub-Account - Incremental Capital Charges Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance -	1508	
Ontario Clean Energy Benefit Act <sup>8</sup>	1508	
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying Charges	1508	
Other Regulatory Assets - Sub-Account - Other <sup>4</sup>	1508	
Retail Cost Variance Account - Retail	1518	
Misc. Deferred Debits	1525	o claim
Renewable Generation Connection Capital Deferral Account	1531	5 Gidiiii
Renewable Generation Connection OM&A Deferral Account	1532	
Renewable Generation Connection Funding Adder Deferral Account	1533	
Smart Grid Capital Deferral Account	1534	
Smart Grid OM&A Deferral Account	1535	
Smart Grid Funding Adder Deferral Account	1536	
Retail Cost Variance Account - STR	1548	
Board-Approved CDM Variance Account	1567 1572	
Extra-Ordinary Event Costs Deferred Rate Impact Amounts	1574	
RSVA - One-time	1582	
Other Deferred Credits	2425	
Group 2 Sub-Total		
Deferred Payments in Lieu of Taxes	1562	oked in 2012
PILs and Tax Variance for 2006 and Subsequent Years	1592	
(excludes sub-account and contra account below)	.002	
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	

Total of Group 1 and Group 2 Accounts (including 1562 and 1592)

Account Descriptions	Account Number
Special Purpose Charge Assessment Variance Account <sup>8</sup>	1521
LRAM Variance Account	1568
Total including Account 1521 and Account 1568	
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital 11 Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries 11 Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter Costs 11 Smart Meter OM&A Variance 11	1555 1555 1555 1556
The following is not included in the total claim but are included on a memo basis:  Deferred PILs Contra Account 5  IFRS-CGAAP Transition PP&E Amounts 10  PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account Disposition and Recovery of Regulatory Balances 7	1563 1575 1592
Disposition and Recovery of Regulatory Balances	1595

Provide supporting statement indicating whether due to denial of costs in 2006 EDR by the Board, 10% transition costs write Adjustments Instructed by the Board include deferral/variance account balances moved to Account 1590 as a result of the Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved disposition For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transact Please describe "other" components of 1508 and add more component lines if necessary.

1563 is a contra-account and is not included in the total but is shown on a memo basis. Account 1562 establishes the oblic the LDC's 2013 rate year begins January 1, 2013, the projected interest is recorded from January 1, 2012 to December 3.

Board in the 2012 rate decision. If the LDC's 2013 rate year begins May 1, 2013 the projected interest is recorded from January 1, 2012 to December 3. balances approved by the Board in the 2012 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 31, 32 and 33) for review and disposition if the recovery (or refund balances in Account 1595 on a memo basis only (line 85).

As per the January 6, 2011 Letter from the Board, regarding the implementation of the Ontario Clean Energy Benefit: "By way of exception... The Board does acticipate that licensed distributors that cannot adapt their invoices as of January 1 balances in "Sub account Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act" will be The Board expected that requests for disposition of the balances in Account 1521 were to be addressed as part of the proc non-compliance with the timeline set out in section 8 of the SPC regulation.



Accounts that produced a variance on the 2013 continuity schedule are listed below. Please provide a detailed explanation for each variance below.

1		_		
Account Descriptions	Account Number		Variance vs. 2011 Balance cipal + Interest)	Explanation
Group 1 Accounts				
Recovery of Regulatory Asset Balances	1590	\$	(318,447.00)	RRR filling incorrect account groupings, see net effect in difference in 1595
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>7</sup>	1595	\$	318,447.66	see above offset
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>7</sup>	1595	\$	318,447.66	should not be pulling - cell problem - 2009 is correct
Group 2 Accounts				
Misc. Deferred Debits	1525	\$	1,581.51	OEB order to write off - actual balance in 2011 but we were allowed to flow thru 2nd quarter 2012 - no claim
Deferred Payments in Lieu of Taxes	1562	\$		Revision to 2012 IRM filing disposition of balances - entry to agree to approved balances was booked in 2012 but for filing purposes assumed balance was as of December 31, 2011 - full balance written off to account 1595 in 2012 as per Order
Special Purpose Charge Assessment Variance Account <sup>9</sup>	1521	\$	732.74	Difference between approved balance of \$9,863 and account balance
Deferred PILs Contra Account 5	1563	\$	7,413.32	Carrying charges should have been reversed. See correction to account 1562 above - part of correction



In the green shaded cells, enter the most recent Board Approved volumetric forecast. If there is a material difference between the latest Board-approved volumetric forecast and the most recent 12-month actual volumetric data, use the most recent 12-month actual data. Do not enter data for the MicroFit class.

Rate Class (Enter Rate Classes in cells below)	Units	# of Customers		Metered kW	Billed kWh for Non- RPP Customers	Estimated kW for Non-RPP Customers	Distribution Revenue <sup>1</sup>	1590 Recovery Share Proportion	1595 Recovery Share Proportion (2008) <sup>2</sup>	1595 Recovery Share Proportion (2009) <sup>2</sup>	1595 Recovery Share Proportion (2010) <sup>2</sup>	1568 LRAM Variance Account Class Allocation (\$ amounts)
Residential Service	kWh	42,279	397,644,877		49,085,578	-	\$ 12,903,869	48.68%		48.68%		
General Service Less than 50kW	kWh	3,940	143,218,155		20,259,865	-	\$ 4,062,188	16.05%		16.05%		
General Service 50 to 4,999 kW	kW	529	382,967,078	957,195	104,441,360	261,043	\$ 4,603,990	34.40%		34.40%		
Unmettered Scattered Load	kWh	352	2,310,407		2,400	-	\$ 58,437	0.18%		0.18%		
Sentinel Lighting	kWh	436	467,079	1,287	12,100	33	\$ 32,953	0.08%		0.08%		
Streetlighting	kW	9,566	8,647,174	24,155	-	-	\$ 608,799	0.61%		0.61%		
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
						-						
Total		57,102	935,254,770	982,637	173,801,303	261,076	\$ 22,270,236	100%	0%	100%	0%	\$ -

 Balance as per Sheet 2
 \$ 93,917

 Variance
 -\$ 93,917

Used 2011 actual data as load significantly lower than the 2009 approved forecast of 976,124,612 kWh sales and 1,038,180 of connected load

<sup>&</sup>lt;sup>1</sup> For Account 1562, the allocation to customer classes should be performed on the basis of the test year distribution revenue allocation to customer classes found in the Applicant's Cost of Service application that was most recently approved at the time of disposition of the 1562 account balances

<sup>&</sup>lt;sup>2</sup> Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.



		Amounts from Sheet 2	Allocator	Residential Service	General Service Less than 50kW	General Service 50 to 4,999 kW	Unmettered Scattered Load	Sentinel Lighting	Streetlighting
V Variance Account	1550	15,740	kWh	6,692	2,410	6,445	39	8	146
SVA - Wholesale Market Service Charge	1580	(2.916.111)	kWh	(1,239,851)	(446.552)	(1.194.086)	(7.204)	(1.456)	(26.962)
SVA - Retail Transmission Network Charge	1584	471.651	kWh	200.533	72,225	193.131	1.165	236	4,361
SVA - Retail Transmission Connection Charge	1586	60.522	kWh	25.732	9.268	24.783	150	30	560
SVA - Power (excluding Global Adjustment)	1588	(183,584)	kWh	(78.055)	(28.113)	(75,174)	(454)	(92)	(1.697)
SVA - Power - Sub-account - Global Adjustment	1588	1,418,528	Non-RPP kWh	400.626	165.357	852.427	20	99	0
ecovery of Regulatory Asset Balances	1590	(111,738)	kWh	(47,508)	(17,111)	(45.754)	(276)	(56)	(1,033)
isposition and Recovery/Refund of Regulatory Balances (2008)	1595	0	kWh	0	0	0	0	0	0
isposition and Recovery/Refund of Regulatory Balances (2009)	1595	(51.879)	kWh	(22.057)	(7.944)	(21,243)	(128)	(26)	(480)
isposition and Recovery/Refund of Regulatory Balances (2010)	1595	0	kWh	0	0	0	0	0	0
otal of Group 1 Accounts (excluding 1588 sub-account)	1000	(2.715.398)		(1.154.513)	(415.816)	(1.111.898)	(6.708)	(1.356)	(25,106)
otal of Group 1 Accounts (excluding 1900 sub-account)		(2). 10,000/		(1,104,010)	(4.10,0.10)	(1,111,000)	(0,1.00)	(1,000)	(20,100)
other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	0		0	0	0	0	0	0
ther Regulatory Assets - Sub-Account - Pension Contributions	1508	0		0	0	0	0	0	0
ther Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	128,910		95,446	8,895	1,194	795	984	21,596
ther Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	4,391		3,251	303	41	27	34	736
ther Regulatory Assets - Sub-Account - Financial Assistance Payment and		0			0	0	٥	0	0
ecovery Variance - Ontario Clean Energy Benefit Act	1508	U		0	U	U U	0	U	0
ther Regulatory Assets - Sub-Account - Financial Assistance Payment and		0		0	0	0	n	0	0
ecovery Carrying Charges	1508	0		0	0	U	U	U	0
ther Regulatory Assets - Sub-Account - Other	1508	0		0	0	0	0	0	0
etail Cost Variance Account - Retail	1518	0		0	0	0	0	0	0
isc. Deferred Debits	1525	0		0	0	0	0	0	0
enewable Generation Connection Capital Deferral Account	1531	11.065		8.192	763	103	68	84	1.854
enewable Generation Connection OM&A Deferral Account	1532	20,076		14.864	1.385	186	124	153	3,363
enewable Generation Connection Funding Adder Deferral Account	1533	0		0	0	0	0	0	0
mart Grid Capital Deferral Account	1534	0		0	0	0	0	0	0
mart Grid OM&A Deferral Account	1535	48,545		35.943	3.350	450	299	371	8.132
mart Grid Funding Adder Deferral Account	1536	0		0	0	0	0	0	0
etail Cost Variance Account - STR	1548	0		0	0	Ō	0	0	0
oard-Approved CDM Variance Account	1567	0		0	0	0	0	0	0
xtra-Ordinary Event Costs	1572	0		0	0	0	0	0	0
Deferred Rate Impact Amounts	1574	(1.377,264)		(1.019.743)	(95,030)	(12.759)	(8 490)	(10.516)	(230,726)
SVA - One-time	1582	0		0	0	0	0	0	0
ova - Greatine  ther Deferred Credits	2425	0		0	0	0	0	0	0
otal of Group 2 Accounts		(1.164.278)		(862.045)	(80.334)	(10.786)	(7.177)	(8.890)	(195.045)
		(.,)		(= 0-10)	(=3,00-1)	(,100)	(-,)	(-,-00)	(100)010)
eferred Payments in Lieu of Taxes	1562	0		0	0	0	0	0	0
ILs and Tax Variance for 2006 and Subsequent Years		1		(05.400)	· ·	-	-	·	
(excludes sub-account and contra account)	1592	(128,971)		(95,492)	(8,899)	(1,195)	(795)	(985)	(21,606)
ILs and Tax Variance for 2006 and Subsequent Years -									222.2
Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	(127,837)		(94,652)	(8,821)	(1,184)	(788)	(976)	(21,416)
otal of Account 1562 and Account 1592		(256.808)		(190.144)	(17.720)	(2.379)	(1.583)	(1.961)	(43.022)
		(200,000)		(100,111)	(,.20)	(=,0.0)	(1,000)	(1,00.)	(10,022)
pecial Purpose Charge Assessment Variance Account	1521	0		0	0	0	0	0	0
RAM Variance Account (Enter dollar amount for each class)	1568	93.917		27.772	58.328	7.818		<u> </u>	
(Account 1568 - total amount allocated to		93,918		41,114	50,520	7,010			
(mocount 1000 - total amount allocated to	Variance	(1)							
	variance	(1)							



Please indicate the Rate Rider Recovery Period (in years) 4

#### Rate Rider Calculation for Deferral / Variance Accounts Balances (excluding Global Adj.)

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers		ocated Balance cluding 1588 sub- account)	Rate Rider for Deferral/Variance Accounts	
Residential Service	kWh	397,644,877	-\$	2,178,930	- 0.0014	\$/kWh
General Service Less than 50kW	kWh	143,218,155	-\$	455,542	- 0.0008	\$/kWh
General Service 50 to 4,999 kW	kW	957,195	-\$	1,117,245	- 0.2918	\$/kW
Unmettered Scattered Load	kWh	2,310,407	-\$	15,468	- 0.0017	\$/kWh
Sentinel Lighting	kWh	467,079	-\$	12,207	- 0.0065	\$/kWh
Streetlighting	kW	24,155	-\$	263,173	- 2.7239	\$/kW
Total			-\$	4.042.566		

#### Rate Rider Calculation for RSVA - Power - Sub-account - Global Adjustment

Rate Class	Units	kW / kWh / # of	Ва	alance of RSVA -	Rate Rider for	
(Enter Rate Classes in cells below)	Onico	Customers		Power - Sub-	RSVA - Power -	
Residential Service	kWh	49,085,578	\$	400,626	0.0020	\$/kWI
General Service Less than 50kW	kWh	20,259,865	\$	165,357	0.0020	\$/kWI
General Service 50 to 4,999 kW	kW	261,043	\$	852,427	0.8164	\$/kW
Unmettered Scattered Load	kWh	2,400	\$	20	0.0020	\$/kW
Sentinel Lighting	kWh	12,100	\$	99	0.0020	\$/kW
Streetlighting	kW	-	\$	-	-	\$/kW
Total			\$	1,418,528		

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 2

Exhibit 9: Deferral And Variance Accounts

### Tab 2 (of 4): IFRS Transition

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 2 Schedule 1 Page 1 of 2

# PROPOSED RECOVERY OF ONE-TIME INCREMENTAL IFRS COSTS

3

1

- 4 Account 1508: Other Regulatory Assets Sub-Account Deferred IFRS Transition
- 5 Costs.
- 6 The October 2009 FAQ#1 states that "In the distributor's next cost of service rate
- 7 application immediately after the IFRS transition period, the balance in this sub-account
- 8 should be included for review and disposition." GSHi has not completed its IFRS
- 9 transition period. GSHi will be taking the additional IFRS deferral granted on September
- 10 2012 by the Accounting Standards Board and therefore will be adopting IFRS on
- 11 January 1, 2014.
- 12 Due to staffing shortages, GSHi was not able to complete all IFRS transitions by the end
- 13 of 2011, in particular with regards to componentization. In 2012, GSHi hired, on a
- 14 contract basis, an accountant to aid in the IFRS conversion project with regards to
- 15 capital assets as well as incurred costs from BDO Dunwoody, who provided GSHi with
- modified IFRS assistance. GSHi also incurred staff overtime and some training in 2012
- 17 with regards to IFRS transition. GSHi has included these expenditures of \$43,934 from
- 18 2012 in this sub-account to be recovered along with all previously incurred IFRS
- 19 incremental expenditures. (See Appendix 2-U One-time Incremental IFRS Transition
- 20 Costs at Exhibit 9, Tab 2, Schedule 1, Attachment 1)
- 21 The total 'professional accounting fees' is \$105,065, which includes costs of \$102,958
- 22 and carrying charges of \$2,107. These costs relate to accounting firms, Freelandt
- 23 Caldwell Reilly and KPMG, who provided consulting services to GSHi for the
- 24 implementation of the IFRS project as well as BDO Dunwoody, who provided modified
- 25 IFRS assistance. These costs would not have been incurred if GSHi was not required to
- 26 transition to IFRS.

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 2 Schedule 1 Page 2 of 2

- 1 The total 'salaries, wages and benefits' is \$17,195, which includes costs of \$16,414 and
- 2 carrying charges of \$781. These costs relate to an accountant hired, on a contract
- 3 basis, as mentioned above and a staff members overtime spent on capital asset
- 4 componentization. These costs would not have been incurred if GSHi was not required
- 5 to transition to IFRS.
- 6 The total 'associated staff training and development' is \$6,650 which includes costs of
- 7 \$6,547 and carrying charges of \$103. These costs relate to various seminars and
- 8 courses attended in relation to IFRS. These costs would not have been incurred if there
- 9 was no requirement to transition to IFRS.
- Therefore, the total charges amount to \$125,919, plus \$2,991 of total carrying charges to
- 11 April 30, 2013. The total of \$128,910 recoverable from ratepayers is included for review
- and final disposition for this sub-account in this rate application.
- 13 GSHi confirms that there are no capital costs, ongoing IFRS compliance costs or
- 14 impacts arising from adopting accounting policy changes recorded in the Deferred IFRS
- 15 Transition Costs Account or IFRS Transition Costs Variance Account.
- 16 If the Board requires the settlement of this Sub-Account to be based on audited amounts
- only (2012 has not yet been audited), then GSHi is requesting that this Sub-Account be
- 18 submitted for review and disposition during our 2014 IRM rate application, versus waiting
- 19 until the 2017 COS rate application.

File Number:	EB-2012-012
Exhibit:	
Tab:	
Schedule:	
Attachment:	
Date:	9 November 201

### Appendix 2-U One-Time Incremental IFRS Transition Costs

The following table should be completed based on the information requested below. An explanation should be provided for any blank entries. The entries should include one-time incremental IFRS transition costs that are currently included in Account 1508, Other Regulatory Assets, sub-account IFRS Transition Costs Account, or Account 1508, Other Regulatory Assets, sub-account IFRS Transition Costs Variance Account.

Nature of One-Time Incremental IFRS Transition Costs <sup>1</sup>	Costs Incurred Costs Incu		Audited Actual Costs Incurred	Charges	Actual Costs Balance		Variance <sup>2</sup>	Costs Incurred	ts Incurred Jan 1 2012		Reasons why the costs recorded meet the criteria of one-time IFRS administrative
	2009	2010	2011		to Dec 31, 2011	2011-12-31 <sup>3</sup>		Jan -Sept 30, 2012		April 30 2012	incremental costs
professional accounting fees		\$ 38,717	\$ 37,241	\$ 820	\$ 76,778	111111	111111	\$ 27,000	\$ 1,287	\$ 105,065	Incremental IFRS professional accounting fees
professional legal fees					\$ -	111111	111111				
salaries, wages and benefits of staff added to support the transition to IFRS					\$ -	111111	(11111)	\$ 16,414		\$ 17,195	Incremental staff to support transition to IFRS
associated staff training and development costs	\$	475 \$ 4,480	\$ 1,072	\$ 61	\$ 6,088		(11111)	\$ 520	\$ 42	\$ 6,650	Incremental IFRS training costs
costs related to system upgrades, or replacements or changes where IFRS was											
the major reason for conversion					\$ -						
					\$ -	111111	(11111)				
					\$ -		((((((				
					\$ -						
					\$ -	//////	MIIIIII				
					\$ -	//////	111111				
					\$ -	//////	MIIIIII				
					<b>\$</b>						
Insert description of additional item(s) and new rows if needed.					\$ -	///////	VIIIII				
Total	\$	175 \$ 43,197	\$ 38,313	\$ 881	\$ 82,866	\$ 82,866	-\$ 0	\$ 43,934	\$ 2,110	\$ 128,910	

#### Note:

The Deferred IFRS Transition Costs Account and the IFRS Transition Costs Variance Account are exclusively for necessary, incremental transition costs and shall not include ongoing IFRS compliance costs or impacts arising from adopting accounting policy changes that reflect changes in the timing of the recognition of income. The incremental costs in these accounts shall not include costs related to system upgrades, or replacements or changes where IFRS was not the major reason for conversion. In addition, incremental IFRS costs shall not include capital assets or expenditures.

2 Applicants are to provide an explanation of material variances in evidence

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 3

Exhibit 9: Deferral And Variance Accounts

### Tab 3 (of 4): LRAM and LRAM Variance Account

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 3 Schedule 1 Page 1 of 2

### LRAM AND LRAMVA PROCESS

- 2 The Board released The Guidelines for Electricity Distributor Conservation and
- 3 Demand Management EB-2012-0003 dated April 26, 2012.
- 4 The Guidelines prescribe two processes for recovery of lost revenues:
- Section 13.6 of the Guidelines deals with LRAM and SSM for Pre-CDM
   Code Activities. It states:
- "The Board therefore expects that LRAM for pre-2011 CDM activities
   should be completed with the 2012 rate applications, outside of persisting
   historical CDM impacts realized after 2010 for those distributors whose
   load forecast has not been updated as part of a cost of service
   application."
- 12 Greater Sudbury is making a claim for pre-2011 CDM activities related to the
- persistence of CDM activities for 2010, consisting of programs initiated by the
- OPA and a suite of programs approved by the Board in 2008, under EB-2008-
- 15 0147, that are specific to Greater Sudbury. There is no claim for activity related
- to 2005 to 2009 Third Tranche MARR funding or post-Third Tranche funding. In
- addition the review includes 2011 LRAMVA for 2011 OPA programs and Greater
- 18 Sudbury programs.
- 19 The claim is in the amount of \$93,917 and represents lost volumes of 5.3 GWh
- and 1.8 MW. This is incorporated with the Group 1/Group 2 disposition of
- 21 deferral accounts.
- 22 Section 13.2 of the Guidelines deals with the LRAM Mechanism for 2011-
- 23 2014programs. The Board has established a LRAM variance account
- 24 ("LRAMVA") which will capture the difference between actual verified impacts of
- 25 authorized CDM program, and the level of CDM program activities included in the
- 26 load forecast.
- 27 Greater Sudbury's load forecast includes an estimated impact from CDM
- 28 activities in the 2013 Test Year. The CDM approach used in the forecast is
- 29 discussed in greater detail in Exhibit 3 Tab 1, Schedule 3.

30

Greater Sudbury Hydro Inc. Filed:9 November, 2012 EB-2012-0126 Exhibit 9 Tab 3 Schedule 1 Page 2 of 2

- 1 Greater Sudbury's claim is based on the OPA 2011 Final Annual Report attached
- 2 to this schedule as Attachment 1.
- 3 Elenchus Research Associates has prepared a full report on the claim and has
- 4 calculated this claim in accordance with relevant guidelines. The report is
- 5 included as Attachment 2 to this schedule.

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Table 1 below details the rate rider calculation proposed to be collected over a four year period consistent with the period used for disposition of Group 1 and Group 2 Deferral Accounts.

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### **Table 1 - LRAM Rate Rider Calculation**

	Total	Residential	GS<50 kW	GS>50 kW	
Lost Revenue Amount (\$)	91,401	27,028	56,765	7,608	
Carrying Charges (\$)	2,516	744	1,563	209	
Total (\$)	93,917	27,772	58,328	7,817	
Recovery Period (Years)	4				
Annualized Amount		6,943	14,582	1,954	
Annual Volume (2013 Forecast)		401,373,120	141,856,898	969,057	
Charge Parameter		kWh	kWh	kW	
Rate Rider		\$ 0.000017	\$ 0.000103	\$ 0.002017	

Exhibit 9 Tab 3 Schedule 1 Attachment 1

### saveonergy



#### Message from the Vice President:

The OPA is pleased to provide you with the enclosed Final 2011 Results Report.

Despite some of the inertial challenges in 2011 with program start up, on average, year one province-wide forecasts were met and the year finished out with strong momentum which continues to build 2012. There are still challenges for LDCs of all sizes and we are committed to ensuring LDCs are successful in meeting their objectives. We look forward to further dialogue to discover opportunities to improve the current program suite with local program opportunities, best practices and successes to better reach our customers in the years to come.

This report was developed in collaboration with the OPA-LDC Reporting and Evaluation Working Group and is designed to help populate LDC annual report templates that will be submitted to the OEB in late September. Between the draft and final reports several improvements were made to improve clarity and transparency based on feedback provided by LDCs, such as: the addition of a glossary tab, total adjustments to savings are now broken out into both the realization rate and net-to-gross ratio for both peak demand and energy savings and modifications were made to the methodology tab. We invite you to continue to provide your feedback.

All results are now considered final for 2011. Any additional 2011 program activity not captured will be reported in the Final 2012 Results Report. Please continue to monitor saveONenergy E-blasts for any further updates and should you have any other questions or comments please contact LDC.Support@powerauthority.on.ca.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process. We look forward to another successful year in 2012.

Sincerely, Andrew Pride



Elenchus 34 King Street East Suite 600 Toronto, ON M5C 2X8

September 14, 2012

Paula Tarini Supervisor - CDM Greater Sudbury Hydro Inc. 500 Regent St. P.O. Box 250 Sudbury, ON P3E 4P1

Re: LRAM and LRAMVA

Dear Paula;

Elenchus is pleased to attach the 2011 LRAM LRAMVA Report For Greater Sudbury Hydro Inc. for inclusion in your 2013 COS Rate Application.

Elenchus concludes that Greater Sudbury Hydro Inc.'s electricity rates should be adjusted to reflect an LRAM claim of \$93,917.

Thank you for allowing Elenchus to be of service. Please contact me should you have any questions about this report.

Yours Truly,

Martin Benum Senior Advisor

M Benun



# 2011 LRAM LRAMVA Report

A Report Prepared by Elenchus Research Associates Inc.

On Behalf of Greater Sudbury Hydro Inc.

**September 14, 2012** 



Tab 1 of 3

Report



Tab: Schedule: Page:

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September 14, 2012

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Cover Sheet				
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OPA GSLT50 2010 2011 Persistence kWh	2	1	1	2
OPA GSGT50 2010 2011 Persistence kW	2	1	1	3
OPA 2011 Programs All kWh	2	1	1	4
OPA 2011 Programs All kW	2	1	1	5
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2011 LRAM LRAMVA Report Greater Sudbury Hydro Inc.



**Executive Review** 

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September 14, 2012

### **Executive Review**

On April 26, 2012 the Ontario Energy Board ("OEB" or "the Board") issued Guidelines for Electricity Distributor Conservation and Demand Management (EB-2012-0003) which permit Greater Sudbury Hydro Inc. to make application for recovery of lost revenue that results from the successful operation of CDM initiatives within its boundaries.

The Guidelines delineate two distinct processes for recovery of lost revenues:

• Lost Revenue Adjustment Mechanism ("LRAM") accommodates the recovery of lost revenues resulting from CDM initiatives for the period from 2005 to the end of 2010 either through approved distribution rate funding by way of the third instalment of the incremental market adjusted revenue requirement ("MAAR") or through contracts with the OPA. The manner in which distributors were instructed to determine the LRAM amount was set out in the Board's Guidelines for Electricity Distributor Conservation and Demand Management, dated March 28, 2008 (EB-2008-0037) (the "2008 CDM Guidelines").

Lost Revenue Adjustment Mechanism Variance Account ("LRAMVA") accommodates
the recovery of lost revenues resulting from CDM initiatives for the period 20112014. The manner in which distributors were instructed to determine the LRAMVA
amount is set out in the Board's Guidelines for Electricity Distributor Conservation
and Demand Management, dated April 26, 2012 (EB-2012-0003) (the "2012 CDM
Guidelines").

A third-party review of that recovery claim is required and is the subject of this report. Elenchus Research Associates Inc. (Elenchus) acted as the third party reviewer. Personnel details can be found in Tab 3 Schedule 1.

 The third party review includes LRAM for Greater Sudbury Hydro Inc.'s 2011 persistence of CDM activities for 2010, consisting of programs initiated by the Ontario Power Authority (OPA) and programs approved in 2008 by the Board (EB-2008-0147) operated by Greater Sudbury Hydro. There is no claim for activity related to 2005 to 2009 Third Tranche MARR funding or post-Third Tranche funding. In addition the review includes 2011 LRAMVA for 2011 OPA programs and Greater Sudbury Hydro programs.



#### **Executive Review**

Tab: 1
Schedule: 2
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September 14, 2012

- 1 Total net energy savings for which LRAM/LRAMVA is being claimed amount to over 2.2
- 2 GWh in the residential rate class, 3.1 GWh in the GS < 50 kW rate class and demand savings
- 3 in the GS 50 to 4,999 kW rate class totaled approximately 1.8 MW.
- 4 Elenchus concludes that Greater Sudbury Hydro Inc.'s electricity rates should be adjusted
- 5 to reflect an LRAM claim of \$93,917.



Introduction

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September 14, 2012

### Introduction

The LRAM and LRAMVA are designed to ensure that Local Distribution Companies ("LDC") "remain whole" despite the lower consumption levels that are, by design, the result of successful conservation and demand management initiatives. There should not be a disincentive for LDC's to encourage energy efficiency and energy conservation efforts. Therefore, an LDC is compensated for these lost revenues.

 This claim for LRAM respects the process outlined in the 2008 Guidelines for rate-based applications to recover revenues lost to customer energy conservation for the 2011 persistence of 2006 to 2010 programs. In accordance with the 2008 Guidelines, which assume that CDM initiatives would be included in Greater Sudbury Hydro Inc. 2009 Cost of Service load forecast, Greater Sudbury Hydro Inc. is only entitled to collect the 2011 persistence of 2010 programs.

In addition this review includes claim for 2011 LRAMVA based on the 2012 Guidelines for OPA programs initiated in 2011.

Greater Sudbury Hydro Inc. does not have any Board-approved programs under the current CDM Code, but does operate a suite of programs approved by the Board in 2008 (EB-2008-0147). LRAM and LRAMVA, as per the description above, are claimed for both "standard" OPA province-wide programs and those approved in 2008 that are specific to Greater Sudbury Hydro Inc.

The LRAM and LRAMVA calculations are based on the sum of the electricity savings over the period of the claim, which are then valued at the appropriate distribution rate depending on the timing (year) of the savings and to which rate class they belonged.

The OPA and province-wide programs savings are the product of an energy program evaluation process, often referred to as Evaluation, Measurement and Verification (EM&V). In the case of this claim, all savings estimates for OPA programs are provided by the OPA. Greater Sudbury Hydro Inc.'s program savings for the applicable years have been previously filed in their CDM Annual Reports.

These savings estimates include persistence—the installation of energy conservation measures whose savings that last past the initial year that they are installed. A four-year



Introduction

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September 14, 2012

program that installed 10 widgets per year with a savings of 1,000 kWh each would result in the following savings profile if the widgets lasted 4 or more years (which is common):

**Example Savings Profile Showing Effect of Persistence** 

Year	In-Year Savings (kWh)	Cumulative Savings (kWh)
1	10,000	10,000
2	20,000	30,000
3	30,000	60,000
4	40,000	100,000

 The OPA designed and delivered some initial programs in 2006 and 2007, but then set-out to build a portfolio of programs to address a broad cross-section of customer types that would run from 2008 to 2010. This latter time frame corresponds to an Ontario goal of shaving 1,350 MW from the electricity system in the province. Savings from these programs typically follow a pattern similar to the one illustrated in the table above. Energy program evaluations determine the energy and demand savings estimates to a reasonable degree of accuracy and also determine the persistence including patterns, or effective useful life (EUL) of new measures being installed and the remaining useful life (RUL) of measures being replaced. It is assumed that the tables provided to each LDC, Greater Sudbury Hydro Inc. , by the OPA contain accurate interpretations and transcriptions of the results from those evaluations (available on the OPA Website).

There are "gross" savings and "net" savings for energy efficiency programs. OPA documentation details the differences between these two, and both are provided to LDC's by the OPA, but for the purposes of this LRAM claim only "net" savings are utilized. Net savings are determined to be those savings that would not have occurred unless the energy efficiency program was running. They are not natural conservation or savings that someone could claim would have occurred anyway. They do not include savings from "free riders."

Some energy efficiency programs are operated at a province-wide scale. These include some behavioural-based programs and some residential/consumer-orientated initiatives like discount coupons. In certain of these cases, savings are apportioned to LDC's by the OPA rather than an attempt made to track individual transactions (which is sometimes impossible).

The persistence savings claimed by Greater Sudbury Hydro Inc. are therefore the net energy and demand savings that can be attributed to the programs and initiatives that



#### Introduction

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September 14, 2012

operated in Greater Sudbury Hydro Inc. territory during the 2006-2010 period and as apportioned to Greater Sudbury Hydro Inc. by the OPA according to its established formulae.

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Likewise the 2011 program savings claimed by Greater Sudbury Hydro Inc. are the net energy and demand savings that can be attributed to the programs and initiatives that operated in Greater Sudbury Hydro Inc. territory during the 2011 period and as apportioned to Greater Sudbury Hydro Inc. by the OPA according to its established formulae.

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Greater Sudbury Hydro Inc.'s programs approved by the Board in 2008 report savings according the procedures required under that approval.



**Assumptions** 

Tab: 1
Schedule: 4
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September 14, 2012

# Assumptions

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This report for Greater Sudbury Hydro Inc. was created with the following assumptions that are often peculiar to the 2006-2010 period:

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- "Consumer" classified as the Residential rate class
- "Business" classified as General Service < 50 kW rate class
- "Industrial" classified as General Service >50 kW rate class
- "Industrial" kWh savings were omitted because they are not assignable as a volumetric charge
- "Consumer" and "Business" kW savings were omitted because they are not assignable as a volumetric charge

12 13 14

In addition this report for Greater Sudbury Hydro Inc. was created utilizing the above assumptions in addition to the following that are often peculiar to the 2011 period:

15 16 17

- "Home Assistance Program" classified as the Residential rate class
- 18 19
- "Pre-2011 Programs completed in 2011" classified as General Service >50 kW rate class



#### LRAM LRAMVA Recommendations

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September 14, 2012

## LRAM LRAMVA Recommendations

During the period of the 2010 2011 persistence LRAM and 2011 Program LRAMVA claim, total net energy savings being claimed amount to over 2.2 GWh in the residential rate class and 3.1 GWh in the GS < 50 kW rate class. Demand savings in the GS > 50 kW rate class totaled approximately 1.8 MW.

Elenchus has concluded that Greater Sudbury Hydro Inc. can justifiably claim \$93,917 in LRAM including carrying costs to April 30, 2013, allocated by rate class as shown in Table 1 below.

#### 2010 LRAM and 2011 LRAMVA

Rate Class	Savings	Amount		Int	erest *	Total
Residential	2.2 GWh	\$	27,028	\$	744	\$ 27,772
General Service Less Than 50 kW	3.1 GWh	\$	56,765	\$	1,563	\$ 58,328
General Service Greater Than 50 kW	1.8 MW	\$	7,608	\$	209	\$ 7,818
Total		\$	91,401	\$	2,516	\$ 93,917

<sup>\*</sup> Carrying Costs to April 30, 2013

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Table 1 2010 LRAM and 2011 LRAMVA



Works Sited and Referenced



Tab: 1
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September 14, 2012

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## Works Sited and Referenced

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- OEB Conservation and Demand Management Code for Electricity Distributors
   Issued: September 16, 2010
- 2. Guidelines for Electricity Distributor Conservation and Demand Management (EB-2012-0003) Issued: April 26, 2012
  - OPA Estimated allocation of 2006-2010 provincial conservation results to Local Distribution Company service territories - update to December 2010 report November 15, 2011
    - 2006-2010 Final OPA CDM Results-Update Greater Sudbury Hydro Inc.xls
  - OPA 2011 Final Annual Report on provincial conservation results to Local Distribution Company service territories – issued August 31, 2012
    - 2011\_Final\_Annual\_Report\_Data\_ Greater\_Sudbury\_Hydro\_Inc.xls
- 5. Final OEB Greater Sudbury Hydro Inc CDM plan (June 2008)
- 17 6. 2008\_CDM\_Annual\_Report\_GreaterSudbury
- 7. 2009\_CDM\_Annual\_Report\_GreaterSudbury
- 19 8. 2010\_CDM\_Annual\_Report\_GreaterSudburyHydroInc
- 9. 2011 Annual Report-Greater Sudbury Hydro(Apr 27 12)

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Tab 2 of 3

**Tables** 



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September 14, 2012

# Input Tables OPA Results

Input Table One	OPA Residential 2010 2011 Persistence kWh
Input Table Two	OPA GSLT50 2010 2011 Persistence kWh
Input Table Three	OPA GSGT50 2010 2011 Persistence kW
Input Table Four	OPA 2011 Programs All kWh
Input Table Five	OPA 2011 Programs All kW
Input Table Six	GSHI 2010 2011 Programs All kWh

# Input Table One OPA Residential 2010 Programs 2011 Persistence (kWh)

Amount	
	2011
2010	
Cool Savings Rebate	203,045
<b>Every Kilowatt Counts Power Savings Event</b>	162,879
Great Refrigerator Roundup	340,404
peaksaver <sup>®</sup>	192
2010 Total	706,520
Grand Total	706,520

# Input Table Two OPA GSLT50 2010 Programs 2011 Persistence (kWh)

Amount	
	2011
2010	
High Performance New Construction	200,791
Power Savings Blitz	400,526
2010 Total	601,316
Grand Total	601,316

# Input Table Three OPA GSGT50 2010 Programs 2011 Persistence (kW)

	kW	Months	Amount
2010			
Electricity Retrofit Incentive	93	12	1,111
Multi-Family Energy Efficiency Rebates	10	12	119
2010 Total	51		1,230
Grand Total	51		1,230

## Input Table Four OPA 2011 Programs (kWh)

	kWh
RES	
Appliance Exchange	5,209
Appliance Retirement	427,371
Bi-Annual Retailer Event	301,981
Conservation Instant Coupon Booklet	200,793
HVAC Incentives	555,312
Residential Demand Response	189
RES Total	1,490,854
GSLT50	
Commercial Demand Response (part of the Residential program sched	ι 2
Demand Response 3 (part of the Industrial program schedule)	3,376
Direct Install Lighting	207,531
Efficiency: Equipment Replacement	1,080,286
GSLT50 Total	1,291,195
Grand Total	2,782,049

# Input Table Five OPA 2011 Programs (kW)

	kW	Months	Extended kW
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	11	12	129
Electricity Retrofit Incentive Program	26	12	308
High Performance New Construction	11	12	130
Grand Total	47	12	567

## Input Table Six GSHI 2010 2011 Programs (kWh)

kWh	
	2011
RES	
2010	
Community Awareness Program	0
Electric Thermal Storage Program	0
2010 Total	0
2011	
Community Awareness Program	0
Electric Thermal Storage Program	0
2011 Total	0
RES Total	0
GSLT50	
2010	
Commercial Parking Lot Plug Controller Program	370,818
LED Traffic Light Conversion Program	0
Vending Machine and Self Service Coolers Efficiency Program	39,690
West Nipissing Street Light Conversion Program	0
2010 Total	410,508
2011	
Commercial Parking Lot Plug Controller Program	79,607
LED Traffic Light Conversion Program	425,003
Vending Machine and Self Service Coolers Efficiency Program	240,975
West Nipissing Street Light Conversion Program	36,462
2011 Total	782,047
GSLT50 Total	1,192,555
Grand Total	1,192,555



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September 14, 2012

# **Output Tables**

Output Table One	2011 LRAM LRAMVA Calculation
Output Table Two	Carrying Cost Calculation
Output Table Three	Summary Claim

# Output Table One Greater Sudbury 2010 LRAM and 2011 LRAMVA

OPA 2010 Final		atti Jut	abai y L	<b>-</b>	.O LIVAIVI	una i			.,				
2011 Persistence		kWh	2011 Rate		Amount			Total		RES	GSLT 50	G	SGT50
2011 Persistence	RES	706,520	0.0123	ć	8,690			TOLAT	\$	8,690	GSLI 50	G	30130
	INLS	700,320	0.0123	Ą	8,090				Ą	8,030			
	GSLT 50	601,316	0.0184	¢	11,064						\$ 11,064		
	G3L1 30	001,310	0.0184	Ų	11,004						J 11,004		
				\$	19,754								
				Ţ	13,734	ı							
		kW	2011 Rate		Amount								
	GSGT50	1,230	4.2336	<u> </u>	5,205.58							\$	5,206
	030130	1,230	1.2330	Υ	3,203.30	ı	\$	24,960				Y	3,200
							Y	24,300					
OPA 2011 Final													
2011 Programs		kWh	2011 Rate		Amount								
	RES	1,490,854	0.0123	\$	18,338				\$	18,338			
	1123	1, 150,03	0.0123	Υ	10,000				Υ	10,000			
	GSLT 50	1,291,195	0.0184	Ś	23,758						\$ 23,758		
	002. 00	1,231,133	0.010	Υ	23), 33						Ψ 23), 33		
				\$	42,095								
				÷	,	ı							
		kW	2011 Rate		Amount								
	GSGT50	567	4.2336	Ś	2,402.52							\$	2,403
				÷	,	ı	Ś	44,498				•	,
				20:	11 OPA LRAM I	RAMVA	\$	69,458	\$	27,028	\$ 34,822	\$	7,608
							÷	•	Ė		. ,		•
GSHI 2010 Final													
2011 Persistence		kWh	2011 Rate		Amount			Total		RES	GSLT 50	G	SGT50
	RES	-	0.0123	\$	-				\$	-			
	GSLT 50	410,508	0.0184	\$	7,553						\$ 7,553		
				\$	7,553								
		kW	2011 Rate		Amount								
	GSGT50	-	4.2336	\$	-	•						\$	-
							\$	7,553					
GSHI 2011 Final													
2011 Programs		kWh	2011 Rate		Amount								
	RES	-	0.0123	\$	-				\$	-			
	GSLT 50	782,047	0.0184	\$	14,390						\$ 14,390		
				\$	14,390	ı							
		1347	2044 5		A								
	CCCTTCC	kW	2011 Rate		Amount							<u>,</u>	
	GSGT50	-	4.2336	\$	-	ı		44.555				\$	-
				30	14 66111 1545	I DARAY	_	14,390			ć 24 C42	<u>,</u>	
				203	11 GSHI LRAM	LKAIVIVÄ	\$	21,943	\$	-	\$ 21,943	<b>&gt;</b>	-
				<b>T</b> ~ ·	tal 2011 LRAM	I DANAYA	_	91,401	<u>,</u>		\$ 56,765	_	7,608

# Output Table Two Calculated Carrying Costs to April 30, 2013

				LRAM LRAMVA						
			Monthly							
	OEB Prescribed	Days in	Interest							
Month	Annual Rate	Month	Rate	Residential				GS LT 50	GS	GT 50
Jan-2011	1.47%	31	0.12%	\$	2,252	\$ 4,730	\$	634		
Feb-2011	1.47%	28	0.11%	\$	4,505	\$ 9,461	\$	1,268		
Mar-2011	1.47%	31	0.12%	\$	6,757	\$ 14,191	\$	1,902		
Apr-2011	1.47%	30	0.12%	\$	9,009	\$ 18,922	\$	2,536		
May-2011	1.47%	31	0.12%	\$	11,262	\$ 23,652	\$	3,170		
Jun-2011	1.47%	30	0.12%	\$	13,514	\$ 28,383	\$	3,804		
Jul-2011	1.47%	31	0.12%	\$	15,766	\$ 33,113	\$	4,438		
Aug-2011	1.47%	31	0.12%	\$	18,018	\$ 37,843	\$	5,072		
Sep-2011	1.47%	30	0.12%	\$	20,271	\$ 42,574	\$	5,706		
Oct-2011	1.47%	31	0.12%	\$	22,523	\$ 47,304	\$	6,340		
Nov-2011	1.47%	30	0.12%	\$	24,775	\$ 52,035	\$	6,974		
Dec-2011	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Jan-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Feb-2012	1.47%	29	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Mar-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Apr-2012	1.47%	30	0.12%	\$	27,028	\$ 56,765	\$	7,608		
May-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Jun-2012	1.47%	30	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Jul-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Aug-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Sep-2012	1.47%	30	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Oct-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Nov-2012	1.47%	30	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Dec-2012	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Jan-2013	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Feb-2013	1.47%	28	0.11%	\$	27,028	\$ 56,765	\$	7,608		
Mar-2013	1.47%	31	0.12%	\$	27,028	\$ 56,765	\$	7,608		
Apr-2013	1.47%	30	0.12%	\$	27,028	\$ 56,765	\$	7,608		

Allocated Carrying Costs								
Residential GS LT 50 GS GT 50								
\$	2.81	\$	5.91	\$	0.79			
\$	5.08	\$	10.67	\$	1.43			
\$	8.44	\$	17.72	\$	2.37			
\$ \$ \$	10.89	\$	22.86	\$	3.06			
\$	14.06	\$	29.53	\$	3.96			
\$	16.33	\$	34.29	\$	4.60			
\$	19.68	\$	41.34	\$	5.54			
\$ \$ \$	22.50	\$	47.25	\$	6.33			
\$	24.49	\$	51.44	\$	6.89			
\$	28.12	\$	59.06	\$	7.92			
\$	29.93	\$	62.87	\$	8.43			
\$	33.74	\$	70.87	\$	9.50			
\$ \$ \$	33.65	\$	70.68	\$	9.47			
\$	31.48	\$	66.12	\$	8.86			
\$	33.65	\$	70.68	\$	9.47			
\$	32.57	\$	68.40	\$	9.17			
\$	33.65	\$	70.68	\$	9.47			
\$	32.57	\$	68.40	\$	9.17			
\$ \$ \$ \$	33.65	\$	70.68	\$	9.47			
\$	33.65	\$	70.68	\$	9.47			
\$ \$ \$	32.57	\$	68.40	\$	9.17			
\$	33.65	\$	70.68	\$	9.47			
\$	32.57	\$	68.40	\$	9.17			
\$	33.65	\$	70.68	\$	9.47			
\$	33.74	\$	70.87	\$	9.50			
\$	30.48	\$	64.01	\$	8.58			
\$	33.74	\$	70.87	\$	9.50			
\$ \$ \$ \$	32.66	\$	68.58	\$	9.19			
\$	744.00	\$ :	1,562.59	\$ 2	209.43			

# Output Table Three 2010 LRAM and 2011 LRAMVA

Rate Class	Savings	Amount		Interest *		Total
Residential	2.2 GWh	\$	27,028	\$	744	\$ 27,772
General Service Less Than 50 kW	3.1 GWh	\$	56,765	\$	1,563	\$ 58,328
General Service Greater Than 50 kW	1.8 MW	\$	7,608	\$	209	\$ 7,818
Total		\$	91,401	\$	2,516	\$ 93,917

<sup>\*</sup> Carrying Costs to April 30, 2013



## Tab 3 of 3

Third Party Review



Elenchus Personnel

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### **Elenchus Personnel**

#### John Todd, President and CEO

John Todd has specialized in government regulation for over 35 years, addressing issues related to price regulation and deregulation, market restructuring to facilitate effective competition, and regulatory methodology. Sectors of primary interest in recent years have included electricity, natural gas and the telecommunications industry. John has assisted counsel in over 200 regulatory proceedings and provided expert evidence in over 100 hearings. His clients include regulated companies, producers and generators, competitors, customers groups, regulators and government.

#### Judy Simon, Principal, Economic Regulation and Conservation

With over 30 years of experience in the economic regulation of energy and in demand-side management/conservation and demand management (DSM/CDM), Judy brings an excellent understanding of energy regulatory jurisdictions across Canada regarding electricity and natural gas regulated utilities. Judy's focus is on helping regulated companies to work effectively within a regulated business environment. Judy spent 10 years with the Ontario Energy Board as a part-time Board Member, adjudicating more than 150 proceedings. Judy has worked with more than 40 Canadian energy utilities across Canada, several municipalities and institutions, and provincial and national energy business associations and government departments.

#### Marc Collins, Principal, Strategic Energy Management

Marc is Principal of Strategic Energy Management-a new division at Elenchus. He holds CEM and CMVP certifications and has 7 years of experience in the energy sector 2011 LRAM LRAMVA Report Greater Sudbury Hydro Inc.



#### Elenchus Personnel

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following a very diverse prior career. Marc brings a deep knowledge of energy program evaluation (EM&V) having initiated and led that function at the OPA until joining Elenchus. His focus is on maximizing the return on investment from energy demand management and continuous improvement processes. Other areas of expertise and practice include DSM/CDM program design and evaluation planning, regulation and community energy planning. Marc provides consulting services to energy agencies, utilities, municipalities, businesses and institutions.

#### Martin Benum, Senior Consultant - Rates & Modeling

Martin has been a Senior Consultant at Elenchus since 2010. He has over 25 years' experience in the electricity sectors in Ontario. Martin provides strategic regulatory advice on energy regulation and designs MS Excel based tools for clients i.e. (OEB application models). He has held senior positions with Enersource Corporation and the Ontario Energy Board. He holds a degree in Business Management and is a designated CMA.

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Exhibit 9: Deferral And Variance Accounts

Tab 4 (of 4): Smart Meters

Greater Sudbury Inc.

# Application for Final Disposition of Smart Meter Costs

Filed in conjunction with 2013 Cost of Service filing EB-2012-0126

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#### 1. Application

Greater Sudbury is filing this evidence in support of its request for final disposition of smart meter costs and inclusion of the smart meter business activity into the normal distribution operations. This application is filed together with Greater Sudbury's Cost of Service filing under Board file number EB-2012-0126.

As noted in Exhibit 1, Tab 1, Schedule 3, Greater Sudbury is seeking the following specific relief:

- The Board's determination that Smart Meter capital of \$7,020,288 and operating expenditures of \$1,053,086 to December 31, 2012 are prudently incurred;
- A Smart Meter Disposition Rate Rider ("SMDR") to recover the difference between the deferred revenue requirement related to smart meters to December 31, 2012 and the Smart Meter Funding Adder revenue collected to April 30, 2012, inclusive of carrying costs to April 30, 2013.
- Greater Sudbury is requesting the recovery of Stranded Meter costs as part of the Cost of Service filing.

This application has been prepared in accordance with the Board's guidelines and requirements as follows:

- The August 8, 2007 Decision with Reasons (EB-2007-0063), which was the Board's combined proceeding in relation to Smart Meter costs for twelve distributors that were at that time authorized to conduct Smart Meter Activities.
- The Board's Smart Meter Funding and Cost Recovery Final Disposition Guideline G-2011-0001 dated December 15, 2011 ("Smart Meter Filing Guideline"). Previous Board Decisions, such as the decision in the Powerstream application (EB-2011-0128).
- Greater Sudbury has used the OEB Smart Meter Model version 3.0 to calculate the SMDR.

#### 2. Executive Summary

Greater Sudbury seeks approval for recovery of foregone revenue requirement from 2006 to December 31, 2012, related to the deployment of its Smart Meter program. The revenue requirement is based on

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- capital expenditures of \$7,020,288 and operating costs of \$1,053,083 covering the period ending
- 2 December 31, 2012. To date Greater Sudbury has installed 46,612 meters representing 99.6% of all
- 3 meters required to be installed. This section describes the final disposition of Smart Meter costs and the
- 4 true-up of interim funding adders to-date.
- 5 The costs submitted with this application for approval represent both 'Minimum Functionality' and
- 6 'Beyond Minimum Functionality', as those terms are defined by the OEB in the Smart Meter Filing
- 7 Guideline. As of the date of filing 94% of all costs submitted for this application have been audited.

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#### **Table 2.1 Overview of Costs per Meter**

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	1		
Description	Total Cost	Cost p	er Meter
Smart Meter and AMI Capital Costs related to Minimum			
Functionality	\$6,746,841		\$144.74
Smart Meter and AMI OM&A Costs related to Minimum			
Functionality	\$911,123		\$19.55
Total Capital and OM&A related to Minimum Functionality	\$7,657,964		\$164.29
Capital Costs Above Minimum Functionality	\$ 273,447	\$	5.87
OM&A Costs Above Minimum Functionality	\$140,960	\$	3.05
Total Capital and OM&A Costs Above Minimum			
Functionality	\$415,407	\$	8.92
Number of Smart Meters Installed			46,612
Total Capital and OM&A Costs	\$8,073,371		\$173.20
Grand Total Capital Costs	\$7,020,288		\$150.61
Grand Total OM&A Costs	\$1,053,083		\$22.59

- 11 The Minimum Functionality Capital and OM&A costs represent the cost of the meter, network
- 12 infrastructure, and the installation of both. The capital and OM&A costs included for recovery for
- 13 Minimum Functionality are \$7,657,964 or \$164.29 per customer.
- 14 The Beyond Minimum Functionality costs claimed in this application represent MDM/R Integration and
- testing, inclusive of ODS integration, TOU preparation within business systems and customer education.

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- 1 There are no costs with respect to technical capabilities in the meters beyond those set out in O.Reg
- 2 425/06. The total capital and OM&A costs included for recovery for Beyond Minimum Functionality costs
- 3 is \$415,407 or \$8.92 per customer. Greater Sudbury's costs appear to be significantly lower than the
- 4 average. Greater Sudbury has submitted all of its Beyond Minimum Functionality costs for recovery that
- 5 are required for MDM/R Integration and testing, inclusive of ODS integration, TOU preparation within
- 6 business systems and customer education.
- 7 While some smart meters have been installed on General Service > 50 kW services, there are no costs for
- 8 these meter included in this Application. Those GS>50 customer costs are incorporated into the normal
- 9 meter capital.
- 10 This disposition seeks approval for recovery of all costs incurred by Greater Sudbury to date and forecast
- to December 31, 2012. There are no costs claimed for any portion of 2013. Greater Sudbury has included
- the net book value of Smart Meter costs in the 2013 test year of the 2013 Cost of Service application as
- well as OM&A costs.
- 14 The proposed recovery of smart meter costs in this application is by way of a single disposition for the
- period covering 2006 to December 31, 2012, net of funding adder collections to date. This application
- seeks recovery of costs by way of a Smart Meter Disposition Rider (SMDR) only, over a twelve month
  - period. There is no request for a SMIRR. Rate impacts with the inclusion of the rider are highlighted
- 18 below.

Table 2.2 - Bill Impacts

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Customer Class	Average Monthly kWh	Proposed Rate Rider (SMDR only)	# Months Recovery	Total Monthly Bill Charges (includes tax)		Variance	
				Current	Proposed	\$	%
Residential	800	\$0.31	12	\$103.96	\$104.28	\$0.31	0.30%
GS<50	2,000	\$5.59	12	\$256.39	\$262.08	\$5.69	2.22%

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#### 3. Smart Meter Program Status

Greater Sudbury has installed 99.6% of smart meters for the residential and General Service < 50 kW

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1 ("GS<50") rate classes. Provided in Table 3.1 below is a detailed breakdown of Smart Meter installations by year for each rate class.

#### Table 3.1 - Cumulative Smart Meter Installations by Rate Class by Year

	2009	2010	2011	2012
	Audited	Audited	Audited	
	Actual	Actual	Actual	Forecast
Residential	2,352	37,684	2,310	221
General Service < 50 kW	71	1,498	2,049	427
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	2423	39182	4359	648
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed				_
	5.18%	88.90%	98.22%	99.60%

5 Greater Sudbury expects to complete the final few installations outstanding early in the new year.

Greater Sudbury's original Mandatory TOU Date was June, 2011, but Greater Sudbury was required to seek an extension (EB-2011-0105). The extension was necessitated because of "delays (it) experienced implementing a new advanced metering infrastructure ("AMI") and Customer Information System ("CIS")." The IESO's decision to change the format of data exchanged through the MDM/R was a subsequent mitigating factor. Greater Sudbury made the decision to move directly to R7.2 and the XML Bill Quantity Request interface as soon as it became available at the provincial MDM/R. We did not build our system to be compliant with R7.0 because we did not believe it was prudent to build a system that would only be in operation for a few months, however that decision meant that we could not comply with our original Mandatory TOU date. The OEB approved of our request for an extension on August 4, 2011. The approval provided an exemption for the Mandatory TOU date until December 31, 2011 and required Greater Sudbury to keep the OEB informed in the case of further delays beyond the control of the utility.

The schedule with the IESO was revised on seven separate occasions and Greater Sudbury continued to update the OEB on our progress with the transition to TOU pricing. In the most recent update Greater Sudbury advised that if the amended IESO schedule proceeded as planned, then Greater Sudbury would be in a position to bill customers on TOU pricing for a consumption period starting May 1, 2012. We have been successful in meeting that final objective.

Our first XML Bill Quantity Request (BQR) was sent to the provincial MDM/R the first week of July and our

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1 first TOU bill was sent out the third week of July on consumption commencing May 1, 2012.

#### 4. Greater Sudbury Hydro Inc. Minimum Functionality

Greater Sudbury's minimum functionality costs are as depicted in the table below. Greater Sudbury submits that all costs included for recovery meet the regulatory definition and Board guidance.

Description	Total Cost	Cost per Meter
Smart Meter and AMI Capital Costs related to Minimum		
Functionality	\$6,746,841	\$144.74
Smart Meter and AMI OM&A Costs related to Minimum		
Functionality	\$911,123	\$19.55
Total Capital and OM&A related to Minimum Functionality	\$7,657,964	\$164.29

- Greater Sudbury respectfully submits that all of its costs required to provide minimum functionality for AMI have been prudently incurred and are reasonable.
- 8 The discussion in the remainder of this section is intended to provide detail with respect to Greater
- 9 Sudbury's progression through the procurement and installation of the smart meters, infrastructure and
- associated items related to Minimum Functionality. It is intended to provide a narrative of the process
- 11 followed and demonstrate Management's approach to this major Capital Project.
- 12 The Smart Meter Initiative required preparation for the selection and deployment of a technology that
- met the requirements of the regulators as well as the unique requirements of each LDC. Greater Sudbury
- did not strive to be the "first out of the gate" with Smart Meters; rather our philosophy was to proceed
- 15 cautiously and learn from other LDCs as we developed a solution that best suited the needs of our
- 16 customers for the long-term.
- 17 Greater Sudbury joined the Ontario Utility Smart Metering ("OUSM") working group, which had as its
- 18 mandate to collaborate on research and recommendations surrounding the smart meter initiative.
- 19 Membership allowed access to extensive research and testing information on many aspects of the smart
- 20 meter initiative including AMI vendors, meters, security, communications, disposal of existing assets, and

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<sup>&</sup>lt;sup>1</sup> O. Reg. 425/06, Functional Specification for an advanced Metering infrastructure Version 2 July 5, 2007 and OEB Guideline G-2011-0001

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- 1 MDM/R workflow requirements.
- 2 Greater Sudbury also set up an internal team that included representatives from all the departments that
- 3 would be affected by this initiative. The core of the team numbered three people with other staff included
- 4 in meetings on an as required basis. Those departments with representatives on the internal committee
- 5 were as follows (core members noted):
- Engineering (Core)
- 7 CDM (Core)
- Metering (Core)
- 9 IT
- 10 Billing
- ◆ Accounting
- 12 Meetings were held frequently in the initial period of the program. A representative from each of the core
- departments was in attendance at all meetings and others were called-in as needed. This allowed a
- broader perspective for each member of the committee that would help each individual better perform
- 15 their own job, but also provided for more eyes and ears at the table when important decisions were
- 16 required.
- 17 A collaborative approach was utilized at every opportunity to ensure a broad perspective was brought to
- bear in decision-making. This investment of time was intended to minimize spending and achieve the best
- 19 solution in the long-term.

#### a. Education and Preparation for the Deployment

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- 22 Greater Sudbury's collaborative approach included our effort to educate ourselves about meter
- 23 technologies and processes well before any decisions needed to be made. The Greater Sudbury team
- 24 members attended Smart Metering Conferences and IESO workshops. Greater Sudbury spent a
- 25 significant amount of time researching technologies, pilot programs and approaches taken by other
- 26 utilities in the province.
- 27 The Smart Meter initiative did not mandate a specific meter technology, so early on in the process
- 28 Greater Sudbury completed a pilot study to test the Tantalus meter technology. Tantalus uses a mesh
- 29 communication technology that seemed ideally suited to Sudbury's hostile RF environment. The pilot took
- 30 place throughout the City of Sudbury in 2007 with funds sourced from the 3<sup>rd</sup> tranche of MARR as a
- 31 Conservation and Demand Management program. There are no costs from that pilot study sought to be

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- 1 recovered through this application.
- 2 The Pilot was intended as a test of the technology. The pilot allowed us to gain experience with the
- 3 meter technology, data collection systems and the data itself. It was a valuable experience for the utility
- 4 that ultimately assisted in our decision making, even though Tantulus was ultimately not the successful
- 5 meter vendor for our utility. The pilot also provided us with valuable experience dealing with customers,
- 6 and the challenges that we would face with educating customers about Smart Meters.
- 7 As a member of the OUSM Working Group, Greater Sudbury's involvement allowed us access to the
- 8 experiences and resources from 50 other utility members. Information was shared on successful pilots
- 9 across the province and testing of the AMI components and technologies available at that time. This
- 10 group was formed in 2005. The OUSM focussed on the whole of the AMI portion of the smart metering
- 11 initiative and had as its mandate to collaborate on research and attempt to influence the provincial
- 12 processes.

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- 13 Greater Sudbury realized that we could not be experts at everything. That was neither feasible nor the
- most cost effective way to conduct the program. Accordingly, in late 2008 we contacted several OUSM
- 15 utilities to find smart meter consulting companies active in the industry. Only one suitable vendor was
- 16 found, Util-Assist. Util-Assist was contacted, a proposal was received and a sole source contract was
- 17 awarded to Util-Assist based on their experience.
- 18 Util-Assist has advised many LDCs and made it possible to achieve economies of scale through group
- 19 training, purchasing and implementation. Specifically, Util-Assist assisted with contract negotiations for the
- 20 purchase of Advanced Metering Infrastructure ("AMI"), prepared RFP documents for the ODS systems,
- 21 smart meter installation services, and most recently a security audit of our AMI solution.
- 22 Furthermore, Util-Assist has provided education/training seminars on integration to the MDM/R and
- 23 associated business processes while continuing to monitor progress in projects across the province. Util-
- 24 Assist began working with the Greater Sudbury smart meter team in November, 2008 and continues to
- work with Greater Sudbury through Time of Use (TOU) cutover and billing in 2012.

# b. Procurement - Authority to Proceed and Careful Implementation

- 28 Greater Sudbury's collaborative approach is seen most clearly with the AMI selection process. Greater
- 29 Sudbury participated in the London Hydro AMI RFQ and that allowed us to not only realize volume
- discounts, but also to reduce workload on staff to produce and evaluate a fully independent RFQ.

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- 1 The process of AMI selection formally began in August of 2007 when Greater Sudbury participated in the
- 2 London Hydro AMI RFQ development. Proposals under that process were first received on May 26, 2008;
- 3 the process saw 19 proposals received from 16 separate bidders. The group of LDCs comprising the
- 4 London Hydro AMI RFQ represented 32 LDCs and over 900,000 smart meters.
- 5 A total score out of one hundred was given by each LDC to each proposal received. Those scores were
- 6 based 50% on technical criteria, 30% on cost and 20% on other factors such as quality management
- 7 systems, longevity of the company and experience/competency of the firm. The technical criteria had
- 8 varying weighting factors that were used to reflect the operating and philosophical differences amongst
- 9 the members of the consortium. The cost used in the comparisons was LDC specific based on meter
- 10 population, nature of service territory, available tower locations, work methods, WAN backhaul and
- 11 level of redundancy required.
- 12 After each LDC completed individual rankings, 3 proponents emerged on the short-list of all 32 of the LDCs
- 13 represented. The results of the evaluation performed by Greater Sudbury resulted in KTI/Sensus Metering
- being selected as our number one vendor.
- 15 For its effort as part of the London Hydro AMI RFQ, Greater Sudbury received an Attestation Letter from
- 16 the Fairness Commissioner confirming the ranking was performed in accordance with the selection
- decision protocols. The letter attests to the fact that the ranking was reached "in a fair (objective and
- 18 competent) manner and consistent with the evaluation and selection processes set out in the Request
- 19 for Proposal" (attached as Appendix 1). The Ministry of Energy recognized the London Hydro RFP use of
- the "best value" methodology and did so by including a direct reference to the London Hydro RFP in the
- 21 draft amendment to Regulation 427/06, Smart Meters: Discretionary Metering Activity and Procurement
- 22 Principle.
- 23 In mid 2008 the London RFP process was completed and Sensus was the 1<sup>st</sup> choice stemming from the "fair
- 24 and open" process. Sensus does not use a multi point to multi point mesh communication technology but
- 25 rather uses a licensed 900 MHz frequency to communicate point to point directly from the meter to a
- tower. In Sudbury the geology that makes the area the Nickel capital of the world creates radio frequency
- 27 (RF) "black holes", that is, there are areas where we cannot communicate with line crews by VHF radio, cell
- 28 phone or pager. The point to point communication architecture of the Sensus system caused us great
- 29 concern that Sensus could not operate at the required read interval success levels defined in the Smart
- meter regulation. Greater Sudbury needed a test protocol and process that would ensure that the Sensus
- 31 system could perform to the required level. As such Greater Sudbury engaged Util-Assist in late 2008 to
- 32 modify an existing pilot program, define success, issue an RFP for meter installation services associated
- 33 with the pilot and embed the requirement for a successful pilot in the contract with Sensus. The pilot

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began in the late spring of 2009 and concluded in the early winter 2009/10. The pilot was declared a success and the contract was signed on January 25, 2010.

#### c. On-Going Operations

As part of the contract negotiation, Greater Sudbury performed a thorough analysis of Sensus' two options for its service offering. Option C was for Greater Sudbury to own and operate the system network and thereby assume responsibility for complying with the Functional Specification for an Advanced Metering Infrastructure, dated July 5, 2007. Option B was for Greater Sudbury to own the system and for Sensus to operate the system and thereby assume responsibility for compliance.

Greater Sudbury determined that the most cost effective selection was to begin operations under Option B and move to Option C after the system was installed and stable. That decision was based on projected pricing for operation of the system (Greater Sudbury operating the system would have required additional staff at the utility) and the O&M costs to have Sensus continue operation. It was determined there was an advantage to KTI/Sensus being able to develop and stabilize the system using the results of multiple utility's installations and then reduce ongoing costs by the utility operating the system on its own. Greater Sudbury and KTI/Sensus installed the AMI network over an extended period during 2010 and 2011.

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The system is now operational. Greater Sudbury was able to achieve compliance with the requirement to attain Read Interval Success (RIS) levels of 98% over 24 hours, 99% over 72 hours and 99.5%, as set out in the Functional Specifications, very early in the roll out. We are convinced the rigour that the pilot forced upon Sensus is responsible for the outstanding initial and continued success in achieving full compliance with the Functional Specifications.

However, the major redevelopment of the Flexnet operating system known as 3.x has resulted in significant operating issues identified in the Powerstream test environment, a cooperative effort in which Greater Sudbury Hydro is a member. The 3.x version of the Sensus Flexnet software is required to allow encryption, the cornerstone of AMI security and privacy, to proceed; to allow the retrieval and reset of demand readings; and to allow the meter to speak with a Home Area Network (HAN) over the Zigbee protocol, the cornerstone of the OPA's culture of conservation effort. Until the Flexnet 3.x software is operationally stable and the network Service Level Agreement (SLA) levels required are achieved by Sensus GSHI would be unwilling to exercise option C. Based on the schedule put forward by Sensus and Sensus's history of missing target dates it is improbable that GSGHI will exercise Option C in 2013.

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#### d. Meter Installation Vendor Selection

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In 2009, the Greater Sudbury Smart Meter team assessed its internal resources and determined that it was necessary to seek the services of a third party for the installation of smart meters within our service territory. This decision was made having taken into account the demands on our existing staff, additional resources for storage and disposal of old meters, the tight timeline required to achieve the objective, as well as the anticipated costs associated with third party installation. Greater Sudbury utilized Util-Assist to develop and issue an RFP and evaluation process for installation services.

- 9 An internal evaluation committee was comprised of representatives from engineering, CDM, metering and operations departments. The committee of four members evaluated proposals following Util-Assists'
- 11 evaluation process.
- 12 The Smart Meter Installation Services RFP was issued January 15, 2010 to two vendors. Proposals were
- 13 received from both. The two proponents were invited to Greater Sudbury to make a presentation and to
- demonstrate their capabilities to perform according to the terms of the RFP.
- 15 The vendors presented their solutions to the Greater Sudbury evaluation committee on October 22, 2009.
- 16 Each member of the team evaluated and scored each vendor individually on a rating scale from 1 through
- 17 5 and scores were weighed according to the pre-established weighting factors that emphasized
- 18 experience, completeness of offering, health & safety and pricing.
- 19 The Greater Sudbury Smart Meter team selected Olameter as the installation vendor of choice. It was the
- 20 least cost proposal. A letter was sent to Olameter asking that they confirm a local warehouse
- 21 storage solution and to convey the importance of hiring locally. Contract negotiations ensued with
- Olameter and a contract was executed on May 4, 2010.

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#### e. Customer Education Strategy

The Ministry of Energy's mandate with the Smart Meter initiative was to provide customers with information on their consumption patterns in order to facilitate a change in behaviour, with the ultimate goal to have customers shift consumption to non-peak periods. To fulfill this vision, Greater Sudbury believed that a multi-phased communication strategy to our customers was required.

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- 1 The first phase focused strictly on information related to the overall provincial smart meter initiative and
- 2 an introduction to Time of Use rates. The first phase forms part of our Minimum Functionality costs and is
- 3 discussed below. Phase 2 of our customer communication strategy focused on notifying our
- 4 customers of the implementation of Time of Use rates, educating them on how to shift or reduce
- 5 electricity consumption and preparing customers for the new "look" of their invoices. The second phase is
- 6 discussed in Beyond Minimum Functionality and in Subsection 6(e) entitled "Web
- 7 Presentment and Customer Education".
- 8 Information packages were developed for customers on an "as requested" basis. The packages were also
- 9 shared with shareholders, our Board of Directors and all of our staff because each would become an
- 10 ambassador for Smart Meters. It was critical that anyone representing Greater Sudbury understand the
- initiative and be able to provide some level of feedback to customers on how to manage consumption to
- 12 better take advantage of TOU pricing.
- 13 At the meter deployment stage of the initiative, Greater Sudbury notified our customers of the fact that
- our installation vendor (Olameter) was at work in our service territory. Press releases were issued to local
- 15 media in an effort to inform our customers of the presence of installers. A direct marketing
- 16 strategy was also employed with a communication package left at each customer's home at the time of
- installation. That package included standard Ministry of Energy documents such as:
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- "Your Smart Meter Has Been Installed" booklet
- "Getting Smart About Smart Meters" answer book
- Time Of Use Rates magnet
- 22 If customers were not present at the time of installation, the Ministry of Energy's standard "Sorry We
- 23 Missed You" card was left onsite with Greater Sudbury's contact information contained within.
- 24 The costs incurred in the first phase of Customer Education relate to the deployment of Smart Meters and
- are therefore considered Minimum Functionality.

#### 5. Smart Meter Background

- 27 On June 24, 2004, the Ministry of Energy issued a Directive under Section 27.1 of the Ontario Energy Board
- Act, 1998 which required the Board to develop and, upon approval by the Minister of Energy, implement a
- 29 plan to achieve the government's objectives for the deployment of smart electricity meters.
- 30 The provincial Smart Meter Initiative stemmed from this Directive and all Local Distribution Companies

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1 (LDCs) in Ontario became heavily involved in creating a conservation culture in Ontario and making the 2 province a North American leader in energy efficiency. The provincial initiative mandated the installation 3 of a smart electricity meter in every Ontario home by December 31, 2010, with the interim goal of 4 800,000 meters being deployed by December 31, 2007. The underlying premise behind the mandate to 5 install these meters was to educate customers on their consumption habits and to implement new rate 6 structures that encouraged load shifting, thereby reducing the requirement for increased power 7 generation capabilities in the province.

This was an enormous undertaking for all LDCs; a project that took years of planning and required carefully managed execution. LDCs had the challenge of choosing technologies and installation service providers that could accommodate the stated requirements within their diverse LDC service territories. However, this project was more than just a metering project; it required selection of an AMI, installation vendor selection, changes to CIS, customer education, business process redesign, and selection of an Operational Data Store ("ODS").

#### a. AMI Deployment

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The contractor began the mass installation in April 2010. The installation included all residential locations throughout our service territory. The three phase general service <50kW installations could not begin until late 2010 due to meter availability.

Olameter utilized eight installation technicians and projected completion in November of 2010. The protocol for Olameter provided detailed directions for interaction with our customers. Olameter was, at all times, acting as a Greater Sudbury approved contractor under strict guidelines approved by this utility.

#### b. Meter Base Replacement Program

Greater Sudbury utilized pre-approved Electrical contractors to cover the supply of parts and labour to repair or replace faulty meter base jaws/meter bases and/or repairs as necessary throughout our mass installation. Significant attention to this detail mitigated the possibility of meter base fires that has been seen in other meter deployments and was the subject of a recent Communiqué of the Fire Marshall of Ontario.

Although the meter base is customer owned equipment, Greater Sudbury determined it was appropriate to repair broken meter bases as they were found. This decision was based on several considerations. First,

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- 1 the meter base could not be left "as is" once it was discovered by the contractor based on employee and
- 2 customer safety. Second, it was critical for a project of this magnitude to avoid potential delays that would
- 3 be associated with negotiating the repair of the meter base with affected customers; this would affect our
- 4 ability to achieve deadlines and, ultimately, potentially increase the cost of the project.
- 5 In accordance with the Filing Guidelines at page 8, the labour associated with the repair of this customer
- 6 owned equipment was capitalized to account 1555 and the parts and material were expensed to
- 7 account 1556.

#### c. Installation of Polyphase GS<50kW meters

The installation of self contained three phase meters was part of the meter installation tender described previously and was undertaken by Olameter. From the early stages of the meter installation planning, it was Greater Sudbury's intent to install transformer rated polyphase meters with internal resources. The narrow scope of this project made it possible to complete the work with internal resources. However, events conspired to change the plan. Delays in meter delivery and numerous significant issues with meter programming dragged polyphase meter installation into 2011 and ultimately 2012. The numerous delays forced Greater Sudbury to attempt to get contracted help to achieve the installation timelines required to meet the TOU billing requirements issued in 2010 by the OEB. The contractor was unsatisfactory and ultimately internal resources were augmented to achieve meter installation. The last of the polyphase transformer rated meters are arrived in late 2012 and will be installed forthwith.

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#### d. AMI Annual Security Audit

- 21 While AMI vendors are required to complete security audits at a corporate level in order to ensure that
- 22 their products are keeping up to date with security trends, best practice dictates utilities complete
- 23 security audits of equipment at the utility. Security of the AMI is important to prevent utilities from
- 24 becoming susceptible to new levels of potential security breaches and to ensure customer privacy.
- 25 Cyber security reports on potential for smart-grid hacking are becoming commonplace in the media.
- Therefore, ensuring system security is a priority to ensure customer "buy-in" for Smart Meters.
- 27 The Specifications for the Advanced Metering Infrastructure (AMI) released in July 2006 identified the
- 28 need for security within the AMI network. Section 2.11 Security and Authentication states "The AMI
- 29 shall have security features to prevent unauthorized access to the AMI and meter data to ensure
- 30 authentication to all AMI elements." In November 2009, the Information and Privacy Commissioner

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- 1 identified areas of concern to be addressed in the area of smart meter and smart grid devices.
- 2 Greater Sudbury collaborated with a consortium of utilities in the AMI Network Security Audit process with
- 3 UtilAssist. In early 2011, an RFP was developed and executed by Util-Assist on behalf of Greater Sudbury
- 4 and several other LDCs in Ontario. Bell/Wurldtech was selected as the vendor of choice based on criteria
- 5 weighted with 60% technical merit and 40% price.
- 6 The ranking process resulted in a virtual tie between two proponents, so the successful proponent was
- 7 selected based on their higher technical score. The selection of the successful proponent was a decision
- 8 affecting all of the utilities involved in the process.
- 9 In January 2012, the consortium of utilities met to review the audit report. This report identified gaps and
- 10 risks to Greater Sudbury operations, the current risks and vulnerabilities with the Sensus AMI systems, as
- well as a recommended action plan prioritizing and evaluating risks and solutions. Contract negotiations
- 12 ensued with individual LDCs and PowerStream was chosen as the lead utility since they were the only
- utility with a test AMI environment. As a result of the AMI security audit, Sensus has been provided with a
- list of security issues to rectify and each utility will perform their own internal security audit based on the
- recommendations of the lead utility. There are no costs included in this Application relating to the security
- measures recommended, but the recommendations themselves reveal the value of the audit performed.

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#### 6. Expenditures beyond Minimum Functionality

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Ontario Regulation 425/06 sets out the definition of minimum functionality for advanced metering infrastructure for residential and small general service customers. The Board provided greater clarity with respect to the application of O. Reg. 425/06 in its Combined Proceeding<sup>2</sup> defining 14 separate allowable capital cost categories and a more limited set of OM&A expenses that directly support those capital investments. The Board's Guideline G-2011-0001, page 6, further refined the definition of Minimum Functionality as:

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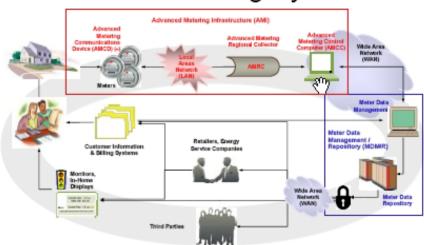
"In the Combined Proceeding, the Board defined minimum functionality as shown in the "Advanced Metering Infrastructure (AMI)" area in the diagram below. It includes an advanced metering communication device, a

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<sup>&</sup>lt;sup>2</sup> Combined Proceeding EB-2007-0063 - pp7 & Appendix A

local area network, an advanced regional collector, and an advanced metering central computer."

## **Smart Metering System**



- 3 The Board provided the chart, copied here as Figure 2, in the Smart Meter Filing Guideline as a visual
- 4 indication of those functions (outlined in red) that Board Staff consider to be included in 'minimum
- 5 functionality'.

Figure 2 – Smart Meter System

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- In order to provide greater clarity, the Guidelines specifically establish three categories of costs that are deemed to be 'beyond minimum functionality'. They are as follows:
- a) Costs for technical capabilities in the smart meters or related communication infrastructure that exceed those specified in O.Reg 425/06;
  - b) Costs for deployment of smart meters to customers other than residential and small general service; and
  - c) Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.
  - In any event, the Board has indicated that distributors may claim Beyond Minimum functionality Costs for

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- 1 recovery as part of a Smart Meter disposition application<sup>3</sup>. "Costs for CIS systems, TOU rate
- 2 implementation, etc., are beyond minimum functionality as established by the Board in the Combined
- 3 Proceeding. However, such costs may be recoverable. In its application, a distributor should show how
- 4 these costs are required for its smart meter program. Further, a distributor should document how these
- 5 costs are incremental. For example, if a distributor has a normal budget for maintenance of its billing and
- 6 CIS systems, costs claimed for system maintenance and upgrades must be shown to be incremental to the
- 7 normal budget that is already recovered in base rates (emphasis added)."
- 8 Greater Sudbury provides the information contained in this Section 6.0 of the application as justification
- 9 for the recovery of costs that are 'beyond minimum functionality' through this Smart Meter Final
- 10 Disposition. The costs are summarized in Table 6.1 below and are justified in the coming sections as
- 11 costs that were required for the Smart Meter initiative and incremental to our normal program to
- maintain the functionality of our CIS.

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Table 6.1 – Expenditures beyond Minimum Functionality

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Description		Per meter
	\$ 273,447	\$5.87
Capital Costs Above Minimum Functionality		
OM&A Costs Above Minimum Functionality	\$141,960	\$3.03
Total Capital and OM&A Costs Above Minimum	\$415,407	\$8.92
Functionality		

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Description	2009	2010	2011	2012	Grand Total
CIS System Upgrades					
MDM/R Integration/TOU Preparation/Business Process Redesign	\$4,993	\$41,459	\$276,330	\$66,325	\$389,107
Web Presentment and customer education				\$26,300	\$26,300
1.6.3 Capital Minimum Functionality	\$4.993	\$41.459	\$276,330	\$92,625	\$415.407

<sup>&</sup>lt;sup>3</sup> Smart Meter Filing Guideline G-2011-0001 - pp 17

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- 1 The total amount claimed in this application for recovery as Beyond Minimum Functionality is \$415,407 or
- 2 \$8.92 per customer. As noted above there are no costs submitted for meter installations other than those
- 3 allowed in the G 1011-0001.
- 4 Therefore, Greater Sudbury respectfully submits, that its application for Beyond Minimum Functionality
- 5 costs should be found to be both necessary to the desired Public Policy Objective (Time of Use Billing<sup>4</sup>) and
- 6 prudently incurred.
- 7 The costs set out in Table 6.1 fall under the category of MDM/R Integration and relate to the
- 8 integration of the MDM/R with Greater Sudbury's Harris NorthStar CIS and the Harris MeterSense
- 9 Operational Data Store (ODS) solution. Additionally costs associated with preparation for billing customers
- 10 based on Time of Use are included.
- 11 Phase 2 of the Smart Meter project was designed to set up the ODS, accommodate changes to the CIS and
- 12 business processes as required to fulfill the Smart Meter mandate. These are the costs that are submitted
- for recovery with this application. Much of that detailed discussion is captured in Section 6.1 below ("CIS
- 14 Upgrades and Business Process Redesign"), Section 6.2 ("MDM/R Integration") and Section 6.3 ("Time of
- 15 Use Preparation"). Those initiatives were carried out with the dedication of internal staff from IT and the
- operational groups (Billing, Metering and Operations), and our outside Util-Assist consultants.
- 17 These costs are considered "required" for Smart Meters because the ODS system automates the process
- of prioritizing and to some degree responding to error messages sent from the MDM/R to the CIS. Prior to
- 19 the commencement of Phase 2 of the Smart Meter Project, the CIS system was not configured for error
- 20 code integration with the MDM/R. It is clear that "but for" the requirements of the Smart Metering
- 21 Initiative, none of the costs for which we are seeking recovery in this application would have been
- incurred. The costs set out in relation to the integration of the ODS also meet the second test required by
- 23 the Smart Meter Filing Guidelines in that they are "incremental" costs. Greater Sudbury has never required
- 24 nor have we had an ODS prior to the Smart Meter Initiative.
- 25 It is important to note that Greater Sudbury is able to confidently state that the costs submitted with this
- 26 application were required for the Smart Meter Initiative and incremental because we carried out a final
- 27 internal review of the costs allocated to Accounts 1555 and 1556. In preparing for this cost of service
- 28 application, the costs included in the Smart Meter deferral accounts were thoroughly reviewed by the
- 29 Smart Meter Team. Those costs that were considered to be of broader benefit than Smart Meters, or part
- of normal CIS maintenance, were reallocated to regular OM&A or recorded to capital accounts that are not
- 31 Smart Meter related.

<sup>&</sup>lt;sup>4</sup> Guideline G-2011-0001 - pp17

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#### a. CIS Upgrades and Business Process Redesign

- 2 Greater Sudbury recognized that a number of business processes would require scrutiny and procedural
- 3 modifications to ensure MDM/R integration was optimized. Those business processes that were affected
- 4 by Smart Meters were as follows:

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- billing process
- final billing
- meter changes
- meter installations
  - meter reading
- meter removals
- move-in and move-out
- new account setup
- retailer billing and interaction
- wholesale settlement
- There were also new business processes that did not exist before the integration with the MDM\R was
- 17 required:
- CMEP configuration and delivery methods
- CT/VT Changes
- Synchronization reports and processes for I-Sync and P-Sync
- 21 Throughout 2010, the Util-Assist training team delivered a series of education sessions covering the
- 22 MDM/R design specifications, meter read data, VEE and other billing processes that would be affected by
- this initiative. Training on regulations, technology and specifications were critical to Greater Sudbury staff
- 24 in understanding the required changes as they moved through the process of developing, testing and
- 25 implementing CIS and Business Process change.
- The business review process was more efficient and effective because of the assistance from Util-Assist.
- 27 The consultants at Util-Assist were involved in implementation of Smart Meters with other LDCs and they
- 28 led the business process redesign sessions at Greater Sudbury. Their involvement helped to reduce effort
- 29 by developing templates based on "best-case" business processes to allow for full realization of the
- 30 requirements of the Smart Meter Initiative.
- 31 Smart Meters created additional steps in the business process compared to prior work processes and,
- 32 therefore, one of the goals during the review of processes was to increase productivity through

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- 1 automation where possible in order to balance the introduction of additional steps associated with Smart
- 2 Meters. The end result was increased automation that has allowed Greater Sudbury to accommodate
- 3 Smart Meters with two incremental permanent staff.
- 4 The two incremental staff are involved in the following activities:
- AMI security audits;

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- AMI system management –Examples include co-ordinating enhancements such as encryption,
   firmware upgrades and HAN rollout;
  - AMI Data management -- Operational Data Integration; Alarms
  - Ongoing project management AMI/CIS/MDMR/ODS integration;
- Troubleshooting communication problems at the meters.
- IT application integration issues.
- Interaction with AMI vendor
- Acting as a liason with AMI test group at PowerStream; attending meetings, managing results,
   making decisions.
- Accompany AMI contractors into substation for planned maintenance.
- 16 The CIS system utilized by Greater Sudbury is an "off the shelf" CIS product and therefore GSHI relies upon
- 17 their service provider to develop and test the CIS interfaces with the MDM\R, with the utilities' role limited
- 18 to implementation and testing of data flows.
- 19 Each of the new or revised business processes were documented in detail. Those changed processes were
- 20 then tested against rigorous test scripts and change iterations by Greater Sudbury staff.
- 21 The blueprints were successfully followed and this was a critical part of Greater Sudbury's AMI/ODS/CIS
- 22 being fully capable for TOU billing. The Reengineering of processes and existing systems has been critical
- 23 to the success of the smart metering initiative at Greater Sudbury and instrumental in avoiding negative
- 24 impacts to our customers or employee efficiency.
- 25 b) MDM/R Integration

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- 1 Greater Sudbury Harris Northstar CIS was modified by the vendor for integration with the components of
- 2 the AMI, namely, Sensus (our AMI vendor), MeterSense (our ODS provider) and the provincial MDM/R. For
- 3 each stage of the process, Greater Sudbury followed the prescribed activities during the preparation,
- 4 registration and enrolment process that is described in the IESO's Smart Metering Lifecycle.
- 5 Greater Sudbury formally registered and enrolled with the IESO on May 20, 2010. In August 2010, Greater
- 6 Sudbury received the mandatory TOU billing date from the OEB of September 2011. In April 2011 Greater
- 7 Sudbury wrote the OEB requesting an extension of the mandated Time-of-Use (TOU) implementation Date
- 8 to December 2011. After a written hearing held in May 2011 Greater Sudbury was granted an extension to
- 9 December 2011 on August 4, 2011. In late 2011 the MDM\R go live dates to meet the Measurement
  - Canada requirement for meter readings on the bills began to slip. Sudbury Hydro's mandatory TOU date
  - slipped forward to May 1, 2012 as the production date for 7.2 moved outward in time.

#### c) PRESCRIBED TESTING:

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Prescribed testing consists of Unit Testing, SIT and QT. Of those testing protocols, Unit Testing is the critical phase for MDM/R Integration. The length of Unit Testing varies by utility from 1-3 months. Util-Assist provided Greater Sudbury with a 32 day test plan that encompassed all of the requirements of the IESO.

In February /March of 2011, Greater Sudbury began Unit Testing with the IESO and the Provincial MDM/R.

Unit Testing is designed to test the rate structure and interaction with retailers. During Unit Testing,



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- 1 Greater Sudbury tested the systems (AMI, CIS, etc.) with the MDM/R. The testing ensured all required
- 2 interfaces with the MDM/R were developed and functional.
- 3 In May of 2011, due to the required Measurement Canada solution changes that affected the Provincial
- 4 MDM/R, Greater Sudbury made the decision to halt our Unit Testing and discontinue redundant effort
- 5 around testing issues that would be rectified after the anticipated new release from the IESO.

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- 7 In mid 2011, our wave re-assignment was received for a late 2011 cutover to the production environment.
- 8 The extension was required because Greater Sudbury determined it was appropriate to build our
- 9 integration with the new protocol anticipated with R7.2, instead of building an R7.0 solution that would
- 10 have only been operational for a few short months.
- 11 After making changes to our interfaces and business processes to accommodate R7.2 changes, Greater
- 12 Sudbury began phase 2 of our Unit Testing on June 13, 2011. Unit testing was successful and Greater
- 13 Sudbury received confirmation to move forward with System Integration Testing (SIT) in November 2011.
- 14 Greater Sudbury conducted and completed SIT between November 14 and November 18, 2011 using
- 15 MDM/R version 7.2 SP 8. SIT was conducted in the Sandbox environment with 21 test cases that were
- 16 reviewed and agreed to by IBM, IESO and Greater Sudbury in the SIT Master Work Plan. All SIT test cases
- were executed, verified and passed.
- 18 Qualification Testing ("QT") ensured that the LDC's business processes can support typical business
- 19 scenarios ranging from collecting and sending meter reads through to receiving billing quantity data
- 20 from the MDM/R. Prior to the start of QT, the IESO provided a standard QT package containing some
- 21 common LDC business scenarios. These scenarios involve multiple, short billing cycles within an
- 22 approximate one month time frame. Greater Sudbury tested systems (CIS and Meter Read Data related
- 23 systems) and used data and billing periods from November 24 to December 16, 2011 to perform a
- 24 number of scenarios during the QT time period.

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#### d) Time-of-Use Preparation

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As part of the smart meter initiative, and specifically in order to accommodate Time of Use (TOU) billing, a number of business process changes needed to be implemented. Through a series of meetings with Smart

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- 1 Meter consulting partner Util-Assist, Greater Sudbury created a multifaceted, functional blueprint that
- 2 detailed the new business billing and meter handling processes.
- 3 At a high level, these changes included creating a new set of rates for residential and general service
- 4 customers. The new rates structure enabled full compliance with the specification and is able to
- 5 accommodate off-peak, mid-peak, and on-peak interval data to be processed into billing determinants. In
  - addition, configuration details were developed to handle TOU data buckets for Retailer billed
  - customers. The changes would accommodate VEE codes, price changes, billing exceptions, and
- 8 wholesale settlement procedures, among other complexities in conjunction with functional and
- 9 technical specifications of the smart meter initiative.

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#### e) Web Presentation and Customer Education

- The Ministry of Energy in a letter dated July 14, 2004 to the Ontario Energy Board indicated that electricity customers should ideally have web access to their hourly consumption data allowing them the opportunity
- to make informed decisions and ultimately affect the provincial peak load.
- 14 Directive #5 in the above noted Letter states:
- "The Board's Plan shall identify mandatory technical requirements for smart meters and associated data systems in accordance with the following criteria:
- associated data systems in accordance with the following criteria:
   A smart meter must be able to measure and
  - A smart meter must be able to measure and indicate electrical usage during pre-specified time periods.
    - A smart meter must be adaptable or suitable, without removal of the meter, for seasonal and time of use commodity rates, critical peak pricing, and other foreseeable electricity rate structures
  - A smart meter must be capable of being read remotely and the metering system must be capable of providing customers feedback on energy consumption with data updated no less than daily. "
- 25 Accordingly, Greater Sudbury asked other LDCs using Northstar who they had partnered with to provide
- Web services. Greater Sudbury then approached the three leading vendors and requested proposals.
- 27 These proposals have been evaluated and a decision is expected shortly.
- 28 In addition to the mandate for Web Presentment, Greater Sudbury used a variety of advertising mediums
- as part of an effective campaign strategy for the purpose of providing education and notification about
- 30 TOU pricing to its customers. Although Greater Sudbury has been conducting public information sessions
- on smart meters since third tranche, it was 2010 when education was boosted.
- 32 In 2010, and primarily as a first introduction for all, Greater Sudbury delivered directly to the home of its
- consumers a Smart Meter package that explained how smart meters work in conjunction with TOU rates

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- 1 and further provided information about shifting electricity use to off peak periods as well as conservation
- 2 tips. This was the beginning of a full advertising campaign that crossed different media.
- 3 In August of 2012 a Letter was directly mailed to consumers reminding them that TOU rates would soon be
- 4 introduced. Included with the letter was a magnetic graph of TOU periods. The intent was to provide the
- 5 consumer with a convenient tool that would act as a quick, concise and easy reference guide.
- 6 Commencing November 2011 through August 2012, advertising mediums included newspaper
- publications, radio ads, television ads that aired from Nov 21/11 through June 30/12 inclusive, and bill
- 8 inserts prior to TOU billing and with the first TOU billing.

#### 7. Smart Meter Costs

- 10 Greater Sudbury is seeking recovery of costs related to the 46,612 smart meters and supporting
- infrastructure. The costs have been audited to December 31, 2011 as the established deferral accounts.
- 12 1555 and 1556 form part of the annual audit performed.

**Table 7.1 – Amount of Audited Costs** 

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Year	Total Annual Smart Meter Costs	Cumulative Total	Audited	
2006	\$0	\$0	YES	
2007	\$64,018	\$64,018	YES	
2008	\$87,482	\$151,500	YES	
2009	\$470,451	\$621,951	YES	
2010	\$5,875,299	\$6,497,250	YES	
2011	\$1,121,461	\$7,618,711	YES	
2012	\$454,663	\$8,073,374	NO	
	Amount Audited (%)	94%		

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Greater Sudbury acknowledges the Guideline which indicates that "The Board expects that the majority (ie. 90% or more) of the total program costs for which the distributor is seeking recovery will be audited."

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The above table indicates that 94.0% of costs have been audited, thereby meeting the guideline for 'the majority' of program costs to be audited.

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#### Table 7.2 - Capital Costs

OEB Cotogony	Description	2008	2009	2010	2011	2012	Grand Total	Cost Per Meter
Category	Total Number of Smart Meters Installed or Planned to be Installed	2008	2423	39182	4359	648	46,612	weter
1.1.1	Smart Meters	\$541	\$273,191	\$4,040,826	\$245,209	\$132,767	\$4,692,534	
1.1.2	Installation Workforce		\$31,803	\$524,941	\$296,935	\$59,406	\$913,085	
1.1.3.a	Automation Hardware			\$16,502			\$16,502	
1.2.1	Collectors			\$845,761	\$6,413		\$852,174	
1.2.2	Repeaters		\$30,635	\$12,000			\$42,635	
1.2.3	Installation of AMRC						\$0	
1.3.1	AMCC Hardware			\$128,511	\$4,022		\$132,533	
1.3.2	AMCC Software			\$1,900			\$1,900	
1.5.1	Other AMI - Cust Equipment						\$0	
1.5.3	Other AMI - Professional Fees						\$0	
1.5.5	Other AMI - Program Management		\$35,011	\$30,821			\$65,832	
1.5.6	Other AMI				\$29,647		\$29,647	
	Total For Minimum Functionality	\$541	\$370,640	\$5,601,262	\$582,226	\$192,173	\$6,746,842	\$144.74
1.6.3	Capital Beyond Minimum Functionality			\$41,459	\$185,502	\$46,486	\$273,447	\$5.87
	Total Smart Meter Capital Costs	\$541	\$370,640	\$5,642,721	\$767,728	\$238,659	\$7,020,288	\$150.61

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#### Table 7.3 - OM&A Costs

OEB Category	Description	2007	2008	2009	2010	2011	2012	Grand Total	Cost per Meter
	Total Number of Smart Meters Installed or Planned to be Installed			2,423	39,182	4,359	648	46,612	
2.1.1	OM&A -AMCD Maintenance				\$4,272	\$17,377	\$63,392	\$85,041	
2.1.2	OM&A - Sensus Meter Operating Fee				\$8,132	\$23,648	\$28,826	\$60,606	
2.2.1	OM&A - AMCD Maintenance			\$13,332	\$45,182	\$43,356	\$86,806	\$188,676	
2.2.2	OM&A - Tower Rental, Radio License, TGB Operating Fee			\$4,886	\$52,058	\$62,841	\$74,925	\$194,710	
2.3.2	OM&A - Software Maintenance			\$26,246	\$9,883	\$14,576	\$35,214	\$85,919	
2.3.2	OM&A - Other - Reclass Cap/mtce 2011 in 2012 and meter reading savings					\$63,456	(\$223,456)	(\$160,000)	
2.4.2	OM&A - Other - Wan Setup and Monthly Fee			\$2,018	\$4,560	\$14,150	\$13,924	\$34,652	
2.5.1	OM&A - Business Process Redesign						\$15,331	\$15,331	
2.5.2	OM&A - Customer Communication				\$47,281		\$13,533	\$60,814	
2.5.3	OM&A - Program Management						\$24,818	\$24,818	
2.5.4	OM&A - Change Management	\$9,241		\$3,232			\$38,466	\$50,939	
2.5.5	OM&A - Administration Costs	\$54,777	\$63,126	\$43,271	\$24,473	\$5,529	\$21,839	\$213,015	
2.5.6	Other AMI Expenses		\$23,815	\$1,833	\$36,738	\$17,970	(\$23,754)	\$56,602	
	Total OM&A Costs Related to Minimum Functionality	\$64,018	\$63,126	\$92,985	\$195,841	\$244,933	\$193,618	\$911,126	\$19.55
2.6.3	OM&A Beyond Minimum Functionality			\$4,993		\$90,828	\$46,139	\$141,960	\$3.05
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	Total OM&A	\$64,018	\$63,126	\$97,978	\$195,841	\$335,761	\$239,757	\$1,053,086	\$22.59

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#### 8. Rate Rider Summary and Bill Impacts

- 2 Greater Sudbury is seeking approval of the Smart Meter costs in this application and the transfer of the
- 3 approved amounts from the smart meter deferral accounts to the required fixed asset, revenue and
- 4 expense accounts. Also being requested is the approval of a Smart Meter Disposition Rate Rider
- 5 (SMDR) which reconciles the revenue requirement.
- 6 Total revenue requirement by year is reflected in the Table below, and the amounts are derived from
- 7 the OEB's smart meter model version 3.0.

1

**Table 8.1 - Smart Meter Disposition Amounts** 

	SMDR Amount
Smart Meter Revenue Requirement 2006	
Smart Meter Revenue Requirement 2007	\$65,043
Smart Meter Revenue Requirement 2008	\$88,313
Smart Meter Revenue Requirement 2009	\$132,412
Smart Meter Revenue Requirement 2010	\$722,377
Smart Meter Revenue Requirement 2011	\$1,320,408
Smart Meter Revenue Requirement 2012	\$1,188,167
Interest on OM&A	\$57,151
Revenue Requirement	\$3,573,871
Smart Meter Rate Adder Revenues	(\$2,998,856)
Carrying Charge	(\$143,834)
Smart Meter True-up	\$431,181

- 9 Greater Sudbury is proposing that the smart meter true-up of \$431,181 be allocated to the residential
- and GS<50 rate classes similar to the approach taken by Guelph Hydro. Greater Sudbury did not track
- 11 costs by rate class but we feel the cost allocation methodology proposed in the application is reasonable
- and representative of costs incurred by the classes to date.
- 13 The table below details the allocation factors utilized in the determination of revenue requirement
- allocated to each class. Exhibit 9, Table 4, Schedule 1, Attachment 1 details the revenue requirement
- 15 allocation.

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#### 1

#### **Table 8.2 - Allocation Factors**

	Residential	GS<50	Total
Average Smart Meter Unit Cost (meter and			
installation)	\$108	\$287	
Total Smart Meter Cost (meter and installation)	\$4,570,715	\$1,034,702	\$5,605,416
Allocation by Meter costs	81.54%	18.46%	100.00%
Number of Meters installed	42,567	4,045	46,612
Allocation by Number of Meters Installed	91.32%	8.68%	100.00%

2

#### 3

#### **Table 8.3 - Determination of SMDR**

Revenue Requirement to December 31, 2012	Total to Allocate	Allocator for Residential	Residential \$	Allocator for GS<50	GS<50 \$
Return	\$1,095,588	81.54%	\$893,354	18.46%	\$202,234
Amortization	\$1,235,721	81.54%	\$1,007,620	18.46%	\$228,101
OM&A	\$1,053,087	91.32%	\$961,700	8.68%	\$91,387
Subtotal Before PILs	\$3,384,396	84.58%	\$2,862,673	15.42%	\$521,723
PILs	\$132,325	84.58%	\$111,926	15.42%	\$20,399
Interest	\$57,151	81.54%	\$46,601	18.46%	\$10,549
Total Revenue Requirement	\$3,573,871		\$3,021,201		\$552,670
Smart Meter Funding Adder Collected	(\$2,998,856)				
Carrying Charges	(\$143,834)				
Total Smart Meter Funding Adder Collected	(\$3,142,690)	91.04%	(\$2,861,118)	8.96%	(\$281,572)
True-up Balance	\$431,181		\$160,082		\$271,099
Number of Customers (installed meters)	46,612		42,567		4,045
Number of Months Disposition	12		0.31		5.59

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#### **Table 8.4 - Bill Impacts**

2

1

Customer Class	Average Monthly kWh	Proposed Rate Rider (SMDR only)	# Months Recovery	Charges	onthly Bill s (includes ax)	Vari	ance
				Current	Proposed	\$	%
Residential	800	\$0.31	12	\$103.96	\$104.28	\$0.31	0.30%
GS<50	2,000	\$5.59	12	\$256.39	\$262.08	\$5.69	2.22%

3

4

5

Greater Sudbury is proposing a one year recovery of the rider for both rate classes. This rider will be included as part of the Rate Schedule in the 2013 Cost of Service application.

6

7

#### 9.0 Conclusion

- 8 Greater Sudbury respectfully submits that the costs incurred to fulfill its obligations under the
- 9 provincially mandated Smart Meter initiative have been prudently incurred in accordance with the
- 10 Board Guidelines; that the proposed rate riders are just and reasonable, and that it is appropriate that
- the Board approve the proposed rate riders for implementation with our Cost of Service application.

Attachment 1

Greater Sudbury Hydro Inc.

#### Table 8.5 - Revenue Requirement

	2007	2008	2009	2010	2011	2012	Total 2009 to 2011	Explanation Allocator	ID and Factors	Total	Residential	General Service Less than 50 kW
Revenue Requirement for the Historical Years	\$65,042.95	\$88,313.34	\$132,411.58	\$722,376.53	\$1,320,408.20	\$1,188,167.30	\$3,516,719.90	)				
Total Return on Capital	\$780.00	\$1,073.00	\$14,272.00	\$222,541.00	\$428,941.00	\$427,980.00	\$1,095,587.00 Allocated per Clas		сwмс	100.00% \$1,095,587.00	81.54% \$893,353.04	
Amortization and interest Expense	\$1,296.63	\$4,453.31	\$16,572.92	\$233,435.87	\$486,676.05	\$550,436.83	\$1,292,871.6 <sup>2</sup> Allocated per Clas	s	сwмс	100.00% \$1,292,871.61	81.54% \$1,054,220.97	
Operating Expenses (Note 1)	\$64,018.00	\$86,941.00	\$99,811.00	\$232,579.00	\$353,733.00	\$216,004.00	\$1,053,086.00 Allocated per Clas	•		46,612 \$1,053,086.00	42,567 \$961,698.96	
Grossed-up Taxes/PILs	\$244.34	\$281.01	\$3,896.04	\$37,802.78	\$67,454.49	\$22,645.96	\$132,324.62 Allocated per Clas	Revenue Requirement allocated to each Class before PILs s		\$3,441,544.61 \$132,324.62	\$2,909,272.96 \$111,859.20	
										Total	Residential	General Service Less than 50 kW
TOTAL REVENUE REQUIREMENT	•	*	-				\$3,573,869.23	В		\$3,573,869.23	\$3,021,132.17	\$552,737.06
			Rev	enue Generated fror	n Smart Meter Fundi	ng Adder (including Inte	kW customer class	ses	dential and GS < 50	100.00%	84.53%	15.47%
							,		irectly attributable to cla	ass	90.48%	8.40%
								attributed evenly	renues (from other meter	ered classes)	0.56%	0.56%
							<b>***</b> 4 4 <b>** *** * * * * * * *</b>	Total			91.04%	
Revenues Generated from SMFA  Net Deferred Revenue Requirement \$431,179.29									\$ 2,861,118.34	\$281,571.60		
Allocated per Class \$431,179.								\$431,179.29				
							Number of Metere Smart Meter Disposition		(2012)		42,567 \$0.31	

Note (1): The Operating Expenses were reduced by \$89,067 to reflect the SH&ED Tax Credit - Energy Probe TCQ # 21 c

From 'Rate Class Customer Model" of Guelph's weather normalization load forecast model spreadsheet filed in the application.

Smart Meter Funding Adder Revenues		Number of customers			Estimated SMFA Revenues							
Year	Res	idential	GS < 50 kW	Other Metered	Resid	dential	GS <	50 kW	Other	Metered	Tota	ıl
				<b>Customer Classes</b>					Custor	mer Classes		
2006 (May 1, 2006)		41,477	3,888	515	\$	67,446.49	\$	6,426.54	\$	842.06	\$	74,715.09
	2007	41,569	3,923	525	\$	127,773.36	\$	11,892.29	\$	1,580.55	\$	141,246.20
	2008	41,648	4,027	525	\$	129,501.80	\$	11,901.37	\$	1,569.22	\$	142,972.39
	2009	41,780	4,004	514	\$	129,560.00	\$	11,872.53	\$	1,558.85	\$	142,991.38
	2010	41,997	4,015	518	\$	718,569.75	\$	66,756.14	\$	8,784.46	\$	794,110.35
	2011	42,174	4,029	527	\$ 1	,048,990.10	\$	97,352.73	\$	13,517.78	\$	1,159,860.61
2012 (PER FORECAST)		42,342	4,045	529	\$	491,535.50	\$	45,688.46	\$	5,736.42	\$	542,960.38
					\$ 2	2,713,377.00	Ş	251,890.06	\$	33,589.34	\$	2,998,856.40
				Interest							<u>\$</u>	143,833.54
				Total with interest							<u>\$</u>	3,142,689.94
						90.48%		8.40%		1.12%		100.00%
						84.53%		15.47%				
		n allocation				50.00%		50.00%				
	Allo	cation of 1.19% to Res and GS < 50 k	V			0.560%		0.560%	_			
						91.04%		8.96%	5			
					\$ 2	2,861,118.34	\$	281,571.60			\$	3,142,689.94

Schedule 1 Attachment 2



## PRP International, Inc.

## Fairness Advisory Services

May 30, 2008

Mr. Brian McMillan, P.Eng. Vice-President – Distribution Electrical Systems Greater Sudbury Hydro Inc. 500 Regent Street, P.O. Box 250 Sudbury, ON P3E 4P1

Dear Mr. McMillan:

Subject:

Attestation of the Fairness Commissioner

Advanced Metering Infrastructure RFP, August 2007

London Hydro & Consortium of LDCs Smartmetering Project

PRP International, Inc. is pleased to submit its letter report of the Fairness Commissioner for the noted Request for Proposal (RFP) evaluation and selection phase. This judgment is being provided for the information and use of each Consortium LDC Sponsor, in their consideration of the report from the Evaluation Phase, for this competitive transaction.

"It is the judgment of PRP International, Inc., as the Fairness Commissioner, that the determinations of the two (2) highest ranked Proponents for the Greater Sudbury Hydro Inc. requirements are:

 KTI/ Sensus Limited, as the recommended Preferred Proponent, based on its highest ranking, and

• Elster Metering being the second ranked Proponent.

These determinations were made in a fair (objective and competent) manner and consistent with the evaluation and selection processes set out in the RFP, issued August 14, 2007."

A detailed report for your records will be submitted to you, by August 31, 2008. Should you have any questions or require clarification of any matter contained in this letter report, please contact the undersigned.

Yours truly,

Peter Sorensen President

cc: Mr. Gary Rains, RFP Project Director

Tab 4
Schedule 1
Attachment 3



## Smart Meter Model for Electricity Distributors (2013 Filers)

Version 3.00

Greater Sudbury Hydro Inc.	
EB-2012-0126	
Nancy Whissell - VP Corporate Services	
705-675-7536 ext 2235	
nancyw@shec.com	
09-Nov-12	
2009	
	EB-2012-0126  Nancy Whissell - VP Corporate Services  705-675-7536 ext 2235  nancyw@shec.com  09-Nov-12

Note: Drop-down lists are shaded blue; Input cells are shaded green.

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

		2006	2007	2008	2009	2010	2011	2012	2013	Total
Smart Meter Capital Cost and Operational Expense Data		Audited Actual	Forecast	Forecast						
Smart Meter Installation Plan										
Actual/Planned number of Smart Meters installed during the Calendar Year										
Residential					2,352	37,684	2,310	221	170	42737
General Service < 50 kW					71	1,498	2,049	427	16	4061
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)		0	0	0	2423	39182	4359	648	186	46798
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed		0.00%	0.00%	0.00%	5.18%	88.90%	98.22%	99.60%	100.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								150	150	300
Other (please identify)  Bi-Directional meters for renewable generation facilities					1	16	21	12	24	74
Total Number of Smart Meters installed or planned to be installed		0	0	0	2424	39198	4380	810	360	47172
1 Capital Costs										
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Asset Type Asset type must be									
, , , , , , , , , , , , , , , , , ,	selected to enable calculations	Audited Actual	Forecast	Forecast						
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			541	273,191	4,040,826	245,209	132,767	0	\$ 4,692,533
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter				31,803	524,941	296,935	59,406		\$ 913,085
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)	Tools & Equipment					16,502				\$ 16,502
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)	Applications Software									\$ -
Total Advanced Metering Communications Devices (AMCD)		\$ -	\$ -	\$ 541	\$ 304,994	\$ 4,582,269	\$ 542,144	\$ 192,173	\$ -	\$ 5,622,120
	Asset Type									
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)		Audited Actual	Forecast	Forecast						
1.2.1 Collectors	Smart Meter					845,761	6,413			\$ 852,174
1.2.2 Repeaters (may include radio licence, etc.)	Computer Hardware				30,635	12,000				\$ 42,635
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)										\$ -
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		\$ -	\$ -	\$ -	\$ 30,635	\$ 857,761	\$ 6,413	\$ -	\$ -	\$ 894,809

	Asset Type									
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)		Audited Actual	Forecast	Forecast						
1.3.1 Computer Hardware	Computer Hardware					128,511	4,022			\$ 132,534
1.3.2 Computer Software	Computer Software					1,900	0			\$ 1,900
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)		\$ -	\$ -	\$ -	\$ -	\$ 130,411	\$ 4,022	\$ -	\$ -	\$ 134,433
	Accet Type									
4.4 MUDE ADEA METMORIZ (MANI)	Asset Type	Audited Agtuel	Auditod Astuck	Adika d Aakal	Audited Actual	Audited Aetuel	Audited Actual	Faranat	Coverent	
1.4 WIDE AREA NETWORK (WAN)		Audited Actual	Forecast	Forecast						
1.4.1 Activiation Fees										\$ - 
Total Wide Area Network (WAN)		\$ -	\$ -	<u>\$ -</u>	\$ -	<u> </u>	<u>\$ -</u>	\$ -	<u> </u>	\$ -
	Asset Type									
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY		Audited Actual	Forecast	Forecast						
1.5.1 Customer Equipment (including repair of damaged equipment)	Other Equipment				0	0	0			\$ -
1.5.2 AMI Interface to CIS										\$ -
1.5.3 Professional Fees										\$ -
1.5.4 Integration										\$ -
1.5.5 Program Management	Smart Meter				35,011	30,821				\$ 65,832
1.5.6 Other AMI Capital	Computer Hardware				0	0	29,647			\$ 29,647
Total Other AMI Capital Costs Related to Minimum Functionality		\$ -	\$ -	\$ -	\$ 35,011	\$ 30,821	\$ 29,647	\$ -	\$ -	\$ 95,479
		Φ	•	<u> </u>					Φ	
Total Capital Costs Related to Minimum Functionality		<u></u>	<u> </u>	\$ 541	\$ 370,640	\$ 5,601,261	\$ 582,226	\$ 192,173	<del>\$ -</del>	\$ 6,746,841
	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	Forecast						
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06										\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Smart Meter							0	0	\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.	Computer Software					41,459	185,502	46,486		\$ 273,447
Total Capital Costs Beyond Minimum Functionality		\$ -	\$ -	\$ -	\$ -	\$ 41,459	\$ 185,502	\$ 46,486	\$ -	\$ 273,447
Total Smart Meter Capital Costs		\$ -	\$ -	\$ 541	\$ 370,640	\$ 5,642,720	\$ 767,728	\$ 238,659	\$ -	\$ 7,020,288

## 2 OM&A Expenses

2 OM&A Expenses										
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Audited Actual	Forecast	Forecast							
2.1.1 Maintenance (may include meter reverification costs, etc.)					4,272	17,377	63,392	72,489	\$ 15	57,531
2.1.2 Other (please specifiy) Sensus Meter operating fee,					8,132	23,648	28,826	29,773	\$	90,379
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ 12,404	\$ 41,026	\$ 92,218	\$ 102,262	\$ 24	47,910
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)										
2.2.1 Maintenance				13,332	45,182	43,356	86,806	93,078	\$ 28	81,754
2.2.2 Other (please specifiy) Tower Rental, Radio Licenses, TGB Operating Fee				4,886	52,058	62,841	74,925	61,276	\$ 25	55,986
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ 18,219	\$ 97,240	\$ 106,197	\$ 161,731	\$ 154,354	\$ 50	37,741
2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)										
2.3.1 Hardware Maintenance (may include server support, etc.)					0				\$	-
2.3.2 Software Maintenance (may include maintenance support, etc.)				26,246	9,883	14,576	35,214	29,368	\$ 1	15,287
2.3.2 Other (please specifiy) reclass cap/mtce 2011 in 2012 and meter reading savings						63,456	-223,456		-\$ 16	60,000
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	\$ 26,246	\$ 9,883	\$ 78,032	-\$ 188,242	\$ 29,368	-\$ 4	44,713
2.4 WIDE AREA NETWORK (WAN)										
2.4.1 WAN Maintenance									\$	-
2.4.2 Other (please specifiy) Wan setup and Monthly Fees				2,018	4,560	14,150	13,924	25,762	\$	60,415
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ 2,018	\$ 4,560	\$ 14,150	\$ 13,924	\$ 25,762	\$ 6	60,415
2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY										
2.5.1 Business Process Redesign						0	15,331	17,108	\$	32,438
2.5.2 Customer Communication (may include project communication, etc.)					47,281		13,533	13,533	\$ 7	74,347
2.5.3 Program Management						0	24,818	49,555	\$ 7	74,373
2.5.4 Change Management (may include training, etc.)		9,241		3,232		0	38,466	41,132	\$ 9	92,070
2.5.5 Administration Costs		54,777	63,126	43,271	24,473	5,529	21,839	28,941	\$ 24	41,956
2.5.6 Other AMI Expenses (please specify)		0	23,815	1,833	36,738	17,970	-23,754	25,950	\$ 8	82,553
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ 64,018	\$ 86,941	\$ 48,336	\$ 108,492	\$ 23,499	\$ 90,233	\$ 176,219	\$ 59	97,739
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ 64,018	\$ 86,941	\$ 94,818	\$ 232,579	\$ 262,904	\$ 169,865	\$ 487,965	\$ 1,39	99,091
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.				4,993	0	90,828	46,139	98,449	\$ 24	40,409
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ 4,993	\$ -	\$ 90,828	\$ 46,139	\$ 98,449	\$ 24	40,409
Total Smart Meter OM&A Costs	\$ -	\$ 64,018	\$ 86,941	\$ 99,811	\$ 232,579	\$ 353,733	\$ 216,004	\$ 586,413	\$ 1,63	39,500

## 3 Aggregate Smart Meter Costs by Category

3.1	Capital									
3.1.1	Smart Meter	\$ -	\$ -	\$ 541	\$ 340,005	\$ 5,442,348	\$ 548,557	\$ 192,173	\$ -	\$ 6,523,624
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ 30,635	\$ 140,511	\$ 33,669	\$ -	\$ -	\$ 204,815
3.1.3	Computer Software	\$ -	\$ -	\$ -	\$ -	\$ 43,359	\$ 185,502	\$ 46,486	\$ -	\$ 275,347
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ 16,502	\$ -	\$ -	\$ -	\$ 16,502
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.7	Total Capital Costs	\$ -	\$ -	\$ 541	\$ 370,640	\$ 5,642,720	\$ 767,728	\$ 238,659	\$ -	\$ 7,020,288
3.2	OM&A Costs									
3.2.1	Total OM&A Costs	\$ -	\$ 64,018	\$ 86,941	\$ 99,811	\$ 232,579	\$ 353,733	\$ 216,004	\$ 586,413	\$ 1,639,500



	2006	2007	2008	2009	2010	2011	2012	2013
Cost of Capital								
Capital Structure <sup>1</sup>								
Deemed Short-term Debt Capitalization				4.0%	4.0%	4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	52.7%	56.0%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%	40.0%
Preferred Shares								
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters								
Deemed Short-term Debt Rate				2.07%	1.33%	1.33%	1.33%	2.08%
Long-term Debt Rate (actual/embedded/deemed) <sup>2</sup>	7.25%	7.25%	7.25%	7.25%	7.01%	7.01%	7.01%	4.41%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	8.01%	8.01%	8.01%	8.01%	9.12%
Return on Preferred Shares				0.00%				
WACC	8.13%	8.13%	8.07%	7.37%	7.18%	7.18%	7.18%	6.20%
Working Capital Allowance								
Working Capital Allowance Rate	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	13.0%
(% of the sum of Cost of Power + controllable expenses)	101070	101070	101070	101070	101070	101070	101070	10.070
Taxes/PILs								
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%	25.50%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%	0.00%

#### **Depreciation Rates**

zoproblation reaso								
(expressed as expected useful life in years)								
Smart Meters - years	15	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	5	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Tools & Equipment - years	10	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates								
Smart Meters - CCA Class	47	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	47	47	47	47	47	47	45	45
Computer Equipment - CCA Rate	8%	8%	8%	8%	8%	8%	45%	45%
General Equipment - CCA Class	47	47	47	47	47	47	8	8
General Equipment - CCA Rate	8%	8%	8%	8%	8%	8%	20%	20%
Applications Software - CCA Class	47	47	47	47	47	47	12	12
Applications Software - CCA Rate	8%	8%	8%	8%	8%	8%	100%	100%

#### 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.



Net Fixed Assets - Smart Meters	2006	2007	2008	2009	2010	2011	2012	2013
Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements.Removals (if applicable) Closing Balance	\$ - \$ -	\$ - \$ -	\$ - \$ 541 \$ 541	\$ 541 \$ 340,005 \$ 340,546	\$ 340,546 \$ 5,442,348 \$ 5,782,894	\$ 5,782,894 \$ 548,557 \$ 6,331,451	\$ 6,331,451 \$ 192,173 \$ 6,523,624	\$ 6,523,624 \$ - \$ 6,523,624
Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance	\$ -	\$ - \$ - \$ -	\$ - -\$ 18 -\$ 18	-\$ 18 -\$ 11,370 -\$ 11,388	-\$ 11,388 -\$ 204,115 -\$ 215,502	-\$ 215,502 -\$ 403,812 -\$ 619,314	-\$ 619,314 -\$ 428,503 -\$ 1,047,816	-\$ 1,047,816 -\$ 434,908 -\$ 1,482,724
Net Book Value Opening Balance Closing Balance Average Net Book Value	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ 522 \$ 261	\$ 522 \$ 329,158 \$ 164,840	\$ 329,158 \$ 5,567,392 \$ 2,948,275	\$ 5,567,392 \$ 5,712,137 \$ 5,639,765	\$ 5,712,137 \$ 5,475,808 \$ 5,593,973	\$ 5,475,808 \$ 5,040,899 \$ 5,258,354
Net Fixed Assets - Computer Hardware								
Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Reterements/Removals (if applicable) Closing Balance	\$ - \$ -	\$ - \$ -	\$ - \$ - \$ -	\$ - \$ 30,635 \$ 30,635	\$ 30,635 \$ 140,511 \$ 171,146	\$ 171,146 \$ 33,669 \$ 204,815	\$ 204,815 \$ - \$ 204,815	\$ 204,815 \$ - \$ 204,815
Accumulated Depreciation Opening Balanca Amortization sepense during year Reterements/Removals (if applicable) Closing Balance	\$ - \$ - \$ -	\$ - \$ -	\$ - \$ - \$ -	\$ - -\$ 3,064 -\$ 3,064	-\$ 3,064 -\$ 20,178 -\$ 23,242	-\$ 23,242 -\$ 37,596 -\$ 60,838	-\$ 60,838 -\$ 40,963 -\$ 101,801	-\$ 101,801 -\$ 40,963 -\$ 142,764
Net Book Value Opening Balance Closing Balance Average Net Book Value	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ 27,572 \$ 13,786	\$ 27,572 \$ 147,904 \$ 87,738	\$ 147,904 \$ 143,978 \$ 145,941	\$ 143,978 \$ 103,015 \$ 123,496	\$ 103,015 \$ 62,051 \$ 82,533
Net Fixed Assets - Computer Software (including Applications Soft Gross Book Value	ware)							
Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 43,359 \$ 43,359	\$ 43,359 \$ 185,502 \$ 228,860	\$ 228,860 \$ 46,486 \$ 275,347	\$ 275,347 \$ -
Accumulated Depreciation Opening Balance Amortization expense during year Retirements Removals (if applicable) Closing Balance	\$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ -	\$ - -\$ 4,336 -\$ 4,336	-\$ 4,336 -\$ 27,222 -\$ 31,558	-\$ 31,558 -\$ 50,421 -\$ 81,978	-\$ 81,978 -\$ 55,069 -\$ 137,048
Net Book Value Opening Balance Closing Balance Average Net Book Value	\$ - \$ - \$ -	\$ - \$ -	\$ - \$ - \$ -	\$ - \$ -	\$ - \$ 39,023 \$ 19,511	\$ 39,023 \$ 197,303 \$ 118,163	\$ 197,303 \$ 193,368 \$ 195,335	\$ 193,368 \$ 138,299 \$ 165,834
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	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 16,502 \$ 16,502	\$ 16,502 \$ -	\$ 16,502 \$ -	\$ 16,502 \$ - \$ 16,502
Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance	\$ - \$ -	\$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - -\$ 825 -\$ 825	-\$ 825 -\$ 1,650 -\$ 2,475	-\$ 2,475 -\$ 1,650 -\$ 4,125	-\$ 4,125 -\$ 1,650 -\$ 5,776
Net Book Value Opening Balance Closing Balance Average Net Book Value	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 15,677 \$ 7,838	\$ 15,677 \$ 14,027 \$ 14,852	\$ 14,027 \$ 12,376 \$ 13,202	\$ 12,376 \$ 10,726 \$ 11,551
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 year Reterments/Removals (if applicable) Closing Balance	\$ - \$ - \$	\$ - \$ - \$	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -
Net Book Value Opening Balance Closing Balance Average Net Book Value	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -



Account Not Fined Accord Values (from Chart 4)		2006		2007		2008		2009		2010		2011		2012		2013
Average Net Fixed Asset Values (from Sheet 4) Smart Meters	\$	_	\$		\$	261	s	164,840	\$	2,948,275	\$	5,639,765	\$	5,593,973	\$	5.258.354
Computer Hardware	\$ \$		\$ \$		\$	201	s S	13,786	\$	87,738	\$	145,941	\$	123,496	\$	82,533
Computer Software	\$		\$		\$		\$	10,700	\$	19,511	\$	118,163	\$	195,335	\$	165,834
Tools & Equipment	\$		¢.		\$		¢.		¢.	7,838	\$	14,852	\$	13,202	\$	11,551
Other Equipment	\$		\$		\$		\$		\$	7,000	Š	14,002	\$	13,202	\$	11,551
Total Net Fixed Assets	\$		\$		\$	261	\$	178,626	\$	3,063,363	\$	5,918,720	\$	5,926,006	\$	5,518,272
Total Hot Fixou / tools	•		•		•		*	,,,,	*	0,000,000	*	0,0.0,1.20	•	0,020,000	*	0,0.0,2.2
Working Capital																
Operating Expenses (from Sheet 2)	\$	-	\$	64,018	\$	86,941	\$	99,811	\$	232,579	\$	353,733	\$	216,004	\$	586,413
Working Capital Factor (from Sheet 3)		15%		15%		15%		15%		15%		15%		15%		13%
Working Capital Allowance	\$	-	\$	9,603	\$	13,041	\$	14,972	\$	34,887	\$	53,060	\$	32,401	\$	76,234
Incremental Smart Meter Rate Base	\$	-	\$	9,603	\$	13,302	\$	193,598	\$	3,098,250	\$	5,971,780	\$	5,958,406	\$	5,594,505
Return on Rate Base																
Capital Structure																
Deemed Short Term Debt	\$	_	\$	_	\$	-	\$	7,744	\$	123,930	\$	238,871	\$	238,336	\$	223,780
Deemed Long Term Debt	\$	_	\$	4,801	\$	7,090	\$	102,026	\$	1,735,020	\$	3,344,197	\$	3,336,708	\$	3,132,923
Equity	\$	-	Š	4,801	\$	6,212	\$	83,828	\$	1,239,300	\$	2,388,712	\$	2,383,363	\$	2,237,802
Preferred Shares	\$	-	Š	-	\$	-,	\$	-	\$	-	\$	-,,	\$	-,,	\$	-,,
Total Capitalization	\$	-	\$	9,603	\$	13,302	\$	193,598	\$	3,098,250	\$	5,971,780	\$	5,958,406	\$	5,594,505
Determ on																
Return on	•		•		•		•	400	•	4.040	•	0.477	•	0.470	•	4.055
Deemed Short Term Debt	\$	-	\$	-	\$	-	\$	160	\$	1,648	\$	3,177	\$	3,170	\$	4,655
Deemed Long Term Debt	\$	-	\$	348	\$	514	\$	7,397	\$	121,625	\$	234,428	\$	233,903	\$	138,162
Equity	\$	-	\$	432	\$	559	\$	6,715	\$	99,268	\$	191,336	\$	190,907	\$	204,088
Preferred Shares	\$	-	\$		\$		\$		\$		\$		\$		\$	
Total Return on Capital	\$	-	\$	780	\$	1,073	\$	14,272	\$	222,541	\$	428,941	\$	427,980	\$	346,904
Operating Expenses	\$	-	\$	64,018	\$	86,941	\$	99,811	\$	232,579	\$	353,733	\$	216,004	\$	586,413
Amortization Expenses (from Sheet 4)																
Smart Meters	\$	-	\$	-	\$	18	\$	11,370	\$	204,115	\$	403,812	\$	428,503	\$	434,908
Computer Hardware	\$	-	\$	-	\$	-	\$	3,064	\$	20,178	\$	37,596	\$	40,963	\$	40,963
Computer Software	\$	-	\$	-	\$	-	\$	· -	\$	4,336	\$	27,222	\$	50,421	\$	55,069
Tools & Equipment	\$	-	\$	-	\$	-	\$	-	\$	825	\$	1,650	\$	1,650	\$	1,650
Other Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Amortization Expense in Year	\$	-	\$	-	\$	18	\$	14,433	\$	229,454	\$	470,280	\$	521,536	\$	532,591
Incremental Revenue Requirement before Taxes/PILs	\$	-	\$	64,799	\$	88,032	\$	128,516	\$	684,574	\$	1,252,954	\$	1,165,521	\$	1,465,908
Calculation of Taxable Income																
Incremental Operating Expenses	\$	_	\$	64,018	\$	86.941	\$	99,811	\$	232,579	\$	353,733	\$	216,004	\$	586,413
Amortization Expense	\$	_	\$	5-4,510	\$	18	\$	14,433	\$	229,454	\$	470,280	\$	521,536	\$	532,591
Interest Expense	\$	_	\$	348	\$	514	\$	7,557	\$	123,273	\$	237,605	\$	237,073	\$	142,817
Net Income for Taxes/PILs	\$	-	\$	432	\$	559	\$	6,715	\$	99,268	\$	191,336	\$	190,907	\$	204,088
Grossed-up Taxes/PILs (from Sheet 7)	\$	_	\$	244.34	\$	281.01	\$	3,896.04	\$	37,802.78	\$	67,454.49	\$	22,645.96	\$	65,736.39
Revenue Requirement, including Grossed-up Taxes/PILs	\$	_	\$	65,043	\$	88,313	\$	132,412	\$	722,377	\$	1,320,408	\$	1,188,167	\$	1,531,645
	Ψ		Ψ	00,040	Ψ	00,010	Ψ	102,712	Ψ	122,011	Ψ	1,020,400	Ψ	1,100,107	Ψ	1,001,040



#### 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 Forecast	2013 Forecast
Opening UCC Capital Additions Retirements/Removals (if applicable)	\$ - \$ -	\$ - \$ -	\$ - \$ 540.50	\$ 518.88 \$ 340,005.27	\$ 326,882.43 \$ 5,442,348.27	\$ 5,525,386.17 \$ 548,557.09	\$ 5,609,970.09 \$ 192,172.82	\$ 5,345,658.39 \$ -
UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC	\$ - \$ - \$	\$ - \$ - \$	\$ 540.50 \$ 270.25 \$ 270.25	\$ 340,524.15 \$ 170,002.64	\$ 5,769,230.70 \$ 2,721,174.14 \$ 3,048,056.56	\$ 6,073,943.26 \$ 274,278.55 \$ 5,799,664.72	\$ 5,802,142.91 \$ 96,086.41 \$ 5,706.056.50	\$ 5,345,658.39 \$ - \$ 5,345,658.39
CCA Rate Class CCA Rate	47 8%	47 8%	47 8%	\$ 170,521.52 47 8%	47 8%	47 8%	47 8%	47 8%
CCA Closing UCC	\$ -	\$ -	\$ 21.62 \$ 518.88	\$ 13,641.72 \$ 326,882.43	\$ 243,844.53 \$ 5,525,386.17	\$ 463,973.18 \$ 5,609,970.09	\$ 456,484.52 \$ 5,345,658.39	\$ 427,652.67 \$ 4,918,005.72
UCC - Computer Equipment	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 Forecast	2013 Forecast
Opening UCC Capital Additions Computer Hardware	\$ - \$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ 30,635.13	\$ 29,409.72 \$ 140,510.96	\$ 203,571.73 \$ 33,669.27 \$ 185.501.76	\$ 397,690.18 \$ -	\$ 254,756.62 \$ -
Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule	\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ 43,358.61 \$ 213,279.29	\$ 422,742.76	\$ 46,486.48 \$ 444,176.66	\$ 254,756.62
Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 15,317.57 \$ 15,317.57 47	\$ 91,934.79 \$ 121,344.51 47	\$ 109,585.52 \$ 313,157.25 47	\$ 23,243.24 \$ 420,933.42 45	\$ - \$ 254,756.62 45
CCA Rate CCA Closing UCC	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 1,225.41 \$ 29,409.72	\$ 9,707.56 \$ 203,571.73	\$ 25,052.58 \$ 397,690.18	\$ 189,420.04 \$ 254,756.62	\$ 114,640.48 \$ 140,116.14
closing coo	<u> </u>			20,100.72	200,011.10	Ψ 007,000.10	Ψ 201,100.02	<u> </u>
UCC - General Equipment	2006	2007	2008	2009	2010	2011	2012	2013
UCC - General Equipment	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 Forecast	2013 Forecast
Opening UCC	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual \$ 15,841.81	Forecast \$ 14,574.47	Forecast \$ 11,659.58
		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast
Opening UCC Capital Additions Tools & Equipment Capital Additions Other Equipment Retirements/Removals (if applicable)	Audited Actual  \$ - \$ - \$ -	Audited Actual  \$ - \$ - \$ -	Audited Actual \$ - \$ - \$ -	Audited Actual  \$ - \$ - \$ -	** Audited Actual  \$ -	**Audited Actual  * 15,841.81 * - * -	Forecast  \$ 14,574.47 \$ - \$ -	Forecast  \$ 11,659.58 \$ - \$ -
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)	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Audited Actual	\$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 16,501.89 \$ 16,501.89 \$ 8,250.95	\$ 15,841.81 \$ - \$ - \$ 15,841.81 \$ -	\$ 14,574.47 \$ - \$ - \$ 14,574.47 \$ -	\$ 11,659.58 \$ - \$ - \$ 11,659.58 \$ 5
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	Audited Actual	Audited Actual  \$	Audited Actual  \$	Audited Actual	Audited Actual \$ 16,501.89 \$ 16,501.89 \$ 8,250.95 \$ 8,250.95	\$ 15,841.81 \$	\$ 14,574.47 \$ - \$ 14,574.47 \$ 14,574.47	\$ 11,659.58 \$ 11,659.58 \$ 11,659.58 \$ 11,659.58
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)	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Audited Actual	\$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 16,501.89 \$ 16,501.89 \$ 8,250.95	\$ 15,841.81 \$ - \$ - \$ 15,841.81 \$ -	\$ 14,574.47 \$ - \$ - \$ 14,574.47 \$ -	\$ 11,659.58 \$ - \$ - \$ 11,659.58 \$ 5
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 CCA Rate CCA	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual  \$ 16,501.89 \$ 16,501.89 \$ 8,250.95 \$ 8,250.95 \$ 47 8% \$ 660.08	** 15,841.81  \$ 15,841.81  \$	\$ 14,574.47 \$ - \$ - \$ 14,574.47 \$ 14,574.47 \$ 20% \$ 2,914.89	\$ 11,659.58 \$ - \$ 11,659.58 \$ 11,659.58 \$ 11,659.58 8 20% \$ 2,331.92
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 CCA Rate	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual  \$ 16,501.89  \$ 16,501.89  \$ 2,250.95  \$ 8,250.95  \$ 8,250.95	** 15,841.81 ** 15,841.81 ** ** ** ** ** ** ** ** ** ** ** ** **	\$ 14,574.47 \$	\$ 11,659.58 \$ 11,659.58 \$ 11,659.58 \$ 20%
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 CCA Rate CCA	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual  \$ 16,501.89 \$ 16,501.89 \$ 8,250.95 \$ 8,250.95 \$ 47 8% \$ 660.08	** 15,841.81  \$ 15,841.81  \$	\$ 14,574.47 \$ - \$ - \$ 14,574.47 \$ 14,574.47 \$ 20% \$ 2,914.89	\$ 11,659.58 \$ - \$ 11,659.58 \$ 11,659.58 \$ 11,659.58 8 20% \$ 2,331.92
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 CCA Rate CCA Closing UCC UCC - Applications Software  Opening UCC Capital Additions Applications Software	Audited Actual	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual \$ 16,501.89 \$ 16,501.89 \$ 8,250.95 \$ 8,250.95 \$ 9,250.95 47 8% \$ 660.08 \$ 15,841.81	**	\$ 14,574.47 \$ - \$ - \$ 14,574.47 \$ 14,574.47 8 20% \$ 2,914.89 \$ 11,659.58	\$ 11,659.58 \$ - \$ 11,659.58 \$ 11,659.58 \$ 20% \$ 2,331.92 \$ 9,327.66
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 CCA Rate CCA Closing UCC  UCC - Applications Software  Opening UCC	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual \$ 16,501.89 \$ 16,501.89 \$ 8,250.95 \$ 8,250.95 \$ 47 8% \$ 660.08 \$ 15,841.81  2010 Audited Actual	** 15,841.81  * 15,841.81  *	\$ 14,574.47 \$ - \$ 14,574.47 \$ 14,574.47 \$ 20% \$ 2,914.89 \$ 11,659.58	\$ 11,659.58 \$ - \$ - \$ 11,659.58 \$ 11,659.58 \$ 20% \$ 2,331.92 \$ 9,327.66 \$ 2013 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 CCA Rate CCA Closing UCC  UCC - Applications Software  Opening UCC Capital Additions - Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals)	Audited Actual   S	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual \$	**S	\$ 14,574.47 \$ - \$ 14,574.47 \$ 14,574.47 \$ 14,574.47 8 20% \$ 2,914.89 \$ 11,659.58 2012 Forecast \$ - \$ - \$ -	\$ 11,659.58 \$ - \$ 11,659.58 \$ 11,659.58 \$ 20% \$ 2,331.92 \$ 9,327.66 2013 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 CCA Rate CCA Closing UCC UCC - Applications Software  Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC Reduced UCC Reduced Company Com	Audited Actual	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual \$	Audited Actual  \$ 15,841.81 \$ - \$ - \$ 15,841.81 \$ 17,841.81 \$ 17,841.81 \$ 17,841.81 \$ 1,267.35 \$ 14,574.47   2011  Audited Actual \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 14,574.47 \$ - \$ - \$ 14,574.47 \$ 14,574.47 \$ 20% \$ 2,914.89 \$ 11,659.58 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 11,659.58 \$ - \$ 11,659.58 \$ - \$ 11,659.58 \$ 20% \$ 2,331.92 \$ 9,327.66 2013 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 CCA Rate CCA Closing UCC  UCC - Applications Software  Opening UCC Capital Additions - Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals)	Audited Actual   S	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual \$	**S	\$ 14,574.47 \$ - \$ 14,574.47 \$ 14,574.47 \$ 14,574.47 8 20% \$ 2,914.89 \$ 11,659.58 2012 Forecast \$ - \$ - \$ -	\$ 11,659,58 \$ - \$ 11,659,58 \$ 11,659,58 \$ 20% \$ 2,331,92 \$ 9,327,66 2013 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 CCA Rate CCA Closing UCC  UCC - Applications Software  Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class	Audited Actual	Audited Actual  \$	Audited Actual  \$	Audited Actual  \$	Audited Actual \$	**S	\$ 14,574.47 \$ - \$ 14,574.47 \$ 14,574.47 \$ 14,574.47 8 20% \$ 2,914.89 \$ 11,659.58 2012 Forecast \$ - \$ - \$ - \$ -	\$ 11,659,58 \$ - \$ 11,659,58 \$ 11,659,58 \$ 20% \$ 2,331,92 \$ 9,327,66 2013 Forecast \$ - \$ - \$ - \$ 12



#### **PILs Calculation**

		20	006 Audited Actual		2007 Audited Actual		2008 Audited Actual		2009 Audited Actual		2010 Audited Actual		2011 Audited Actual		2012 Forecast		2013 Forecast
INCOM	E TAX																
	Net Income	\$	-	\$	432.12	\$	559.10	\$	6,714.61	\$	99,267.92	\$	191,335.83	\$	190,907.34	\$	204,087.55
	Amortization	\$	-	\$	-	\$	18.02	\$	14,433.06	\$	229,453.74	\$	470,279.74	\$	521,536.49	\$	532,590.89
	CCA - Smart Meters	\$	-	\$	-	-\$	21.62	-\$	13,641.72	-\$	243,844.53	-\$	463,973.18	-\$	456,484.52	-\$	427,652.67
	CCA - Computers	\$	-	\$	-	\$	-	-\$	1,225.41	-\$	9,707.56	-\$	25,052.58	-\$	189,420.04	-\$	114,640.48
	CCA - Applications Software	\$	-	\$	-	\$		\$	-	\$	-	\$	-	\$	-	\$	-
	CCA - Other Equipment	\$	-	\$	-	\$	-	\$	-	-\$	660.08	-\$	1,267.35	-\$	2,914.89	-\$	2,331.92
	Change in taxable income	\$	-	\$	432.12	\$	555.50	\$	6,280.54	\$	74,509.50	\$	171,322.46	\$	63,624.37	\$	192,053.38
	Tax Rate (from Sheet 3)		36.12%		36.12%		33.50%		33.00%		31.00%		28.25%		26.25%		25.50%
	Income Taxes Payable	\$	-	\$	156.08	\$	186.09	\$	2,072.58	\$	23,097.94	\$	48,398.60	\$	16,701.40	\$	48,973.61
ONTAR	IO CAPITAL TAX																
	Smart Meters	\$	-	\$	-	\$	522.48	\$	329,158.21	\$	5,567,391.82	\$	5,712,137.41	\$	5,475,807.72	\$	5,040,899.46
	Computer Hardware	\$	-	\$	-	\$	-	\$	27,571.62	\$	147,904.46	\$	143,977.58	\$	103,014.51	\$	62,051.44
	Computer Software	\$	_	\$	_	\$	_	\$	_	\$	39,022.75	\$	197,302.61	\$	193,368.37	\$	138,299.00
	(Including Application Software) Tools & Equipment	e		•		\$		\$		•	45.070.00	\$	44.000.04	•	40.070.40	•	40.700.00
	Other Equipment	<b>o</b>	-	ð.	-	Φ Φ	-	Φ.	-	o.	15,676.80	Φ	14,026.61	\$	12,376.42	\$	10,726.23
	Rate Base	\$		\$	-	\$	522.48	\$	356,729.83	\$	5,769,995.82	\$	6,067,444.20	\$	5,784,567.02	\$	5,251,976.12
	Less: Exemption	φ	-	φ	-	φ	322.40	Ψ	330,729.03	Ψ	3,709,993.02	φ	0,007,444.20	φ	3,764,307.02	φ	3,231,970.12
	·	\$	-	\$	-	\$	522.48	\$	356,729.83	\$	5,769,995.82	\$	6,067,444.20	\$	5,784,567.02	\$	5,251,976.12
	Ontario Capital Tax Rate (from Sheet 3)		0.300%		0.225%		0.225%		0.225%		0.075%		0.000%		0.000%		0.000%
	Net Amount (Taxable Capital x Rate)	\$	-	\$	-	\$	1.18	\$	802.64	\$	4,327.50	\$	-	\$	-	\$	-
	Change in Income Taxes Payable	\$	-	\$	156.08	\$	186.09	\$	2,072.58	\$	23,097.94	\$	48,398.60	\$	16,701.40	\$	48,973.61
	Change in OCT	\$	-	\$	-	\$	1.18	\$	802.64	\$	4,327.50	\$	-	\$	<u> </u>	\$	
	PILs	\$	-	\$	156.08	\$	187.27	\$	2,875.22	\$	27,425.44	\$	48,398.60	\$	16,701.40	\$	48,973.61
Gross	Up PILs																
GIUSS	Tax Rate		36.12%		36.12%		33.50%		33.00%		31.00%		28.25%		26.25%		25.50%
	Change in Income Taxes Payable	\$	30.12%	\$	244.34	\$	279.84	\$	3,093.40	\$	33,475.28	\$	67,454.49	\$	22,645.96	\$	65,736.39
	Change in OCT	\$	-	\$	-	\$	1.18	\$	802.64	\$	4,327.50	\$	-	\$	-	\$	-
		\$	_	\$	244.34	\$	281.01	\$	3,896.04	\$	37,802.78	\$	67,454.49	\$	22,645.96	\$	65,736.39
	-	•							-,		,		,		,		,



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	(Principal) Revenues Rat		Interest Rate	Interest	Clo	osing Balance	Ann	ual amounts	Smart	Approved t Meter g Adder	
2006 Q1			Jan-06	2006	Q1	\$ -			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	4.59%	4.72%	Apr-06	2006	Q2	\$ -			4.14%	-	\$	-				
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -	\$	-	4.14%	-	\$	-				
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -	\$	-	4.14%	-	\$	-				
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -	\$	17,540.29	4.59%	-	\$	17,540.29			\$	0.27
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 17,540.29	\$	14,211.06	4.59%	67.09	\$	31,818.44			\$	0.27
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 31,751.35	\$	8,764.90	4.59%	121.45	\$	40,637.70			\$	0.27
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 40,516.25	\$	13,509.70	4.59%	154.97	\$	54,180.92			\$	0.27
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 54,025.95	\$	9,354.87	4.59%	206.65	\$	63,587.47			\$	0.27
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 63,380.82	2 \$	11,334.27	4.59%	242.43	\$	74,957.52	\$	75,507.68	\$	0.27
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 74,715.09	\$	15,217.37	4.59%	285.79	\$	90,218.25			\$	0.27
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 89,932.46	\$	11,286.32	4.59%	343.99	\$	101,562.77			\$	0.27
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 101,218.78	\$	11,999.05	4.59%	387.16	\$	113,604.99			\$	0.27
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 113,217.83	\$	10,040.44	4.59% \$	433.06	\$	123,691.33			\$	0.27
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 123,258.27	\$	13,199.84	4.59% \$	471.46	\$	136,929.57			\$	1.94
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 136,458.11	\$	12,681.33	4.59% \$	521.95	\$	149,661.39			\$	1.94
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 149,139.44	\$	9,595.30	4.59%	570.46	\$	159,305.20			\$	1.94
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 158,734.74	\$	14,128.19	4.59% \$	607.16	\$	173,470.09			\$	1.94
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 172,862.93	\$	8,671.57	4.59% \$	661.20	\$	182,195.70			\$	1.94
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 181,534.50	\$	15,009.76	5.14% \$	777.57	\$	197,321.83			\$	1.94
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 196,544.26	-	10,758.31	5.14% \$			208,144.43			\$	1.94
2011 Q4	1.47%	3.92%	Dec-07	2007	Q4	\$ 207,302.57	_	8,658.72	5.14%			216,849.24	\$	148,035.81	\$	1.94
2012 Q1	1.47%	3.92%	Jan-08	2008	Q1	\$ 215,961.29	_	15,752.99	5.14%		\$	232,639.31			\$	1.94
2012 Q2	1.47%	3.51%		2008	Q1	\$ 231,714.28		10,358.85	5.14%		\$	243,065.64			\$	1.94
2012 Q3	1.47%	3.51%	Mar-08	2008	Q1	\$ 242,073.13	_	10,056.31	5.14%	,		253,166.32			\$	1.94
2012 Q4	1.47%	3.23%		2008	Q2	\$ 252,129.44	_	13,941.49	4.08%			266,928.17			\$	1.94
2013 Q1	1.47%	3.23%	May-08	2008	Q2	\$ 266,070.93	_	12,182.82	4.08%			279,158.39			\$	1.94
2013 Q2	1.47%	3.23%		2008	Q2	\$ 278,253.75		11,506.25	4.08%			290,706.06			\$	1.94
2013 Q3	1.47%	3.23%	Jul-08	2008	Q3	\$ 289,760.00	\$	12,330.71	3.35%	808.91	\$	302,899.62			\$	1.94



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP
2013 Q4	1.47%	3.23%

Dat	te	Year	Quarter	Ol	pening Balance (Principal)	Fu	inding Adder Revenues	Interest Rate	Interest	Clo	osing Balance	Ann	ual amounts	oard Approved Smart Meter Funding Adder
Au	g-08	2008	Q3	\$	302,090.71	\$	10,067.16	3.35%	\$ 843.34	\$	313,001.21			\$ 1.94
Se	p-08	2008	Q3	\$	312,157.87	\$	11,769.20	3.35%	\$ 871.44	\$	324,798.51			\$ 1.94
Oc	ct-08	2008	Q4	\$	323,927.07	\$	13,894.46	3.35%	\$ 904.30	\$	338,725.83			\$ 1.94
No	v-08	2008	Q4	\$	337,821.53	\$	9,126.17	3.35%	\$ 943.09	\$	347,890.79			\$ 1.94
De	c-08	2008	Q4	\$	346,947.70	\$	12,025.79	3.35%	\$ 968.56	\$	359,942.05	\$	154,014.20	\$ 1.94
Ja	n-09	2009	Q1	\$	358,973.49	\$	11,117.92	2.45%	\$ 732.90	\$	370,824.31			\$ 1.94
Fe	b-09	2009	Q1	\$	370,091.41	\$	13,217.74	2.45%	\$ 755.60	\$	384,064.75			\$ 1.94
Ma	ar-09	2009	Q1	\$	383,309.15	\$	12,853.70	2.45%	\$ 782.59	\$	396,945.44			\$ 1.94
Ap	or-09	2009	Q2	\$	396,162.85	\$	11,633.29	1.00%	\$ 330.14	\$	408,126.28			\$ 1.94
Ma	ıy-09	2009	Q2	\$	407,796.14	\$	12,054.23	1.00%	\$ 339.83	\$	420,190.20			\$ 1.94
Ju	n-09	2009	Q2	\$	419,850.37	\$	11,891.57	1.00%	\$ 349.88	\$	432,091.82			\$ 1.94
Ju	ul-09	2009	Q3	\$	431,741.94	\$	11,240.65	0.55%	\$ 197.88	\$	443,180.47			\$ 1.94
Au	g-09	2009	Q3	\$	442,982.59	\$	11,339.93	0.55%	\$ 203.03	\$	454,525.55			\$ 1.94
Se	p-09	2009	Q3	\$	454,322.52	\$	12,775.10	0.55%	\$ 208.23	\$	467,305.85			\$ 1.94
Oc	ct-09	2009	Q4	\$	467,097.62	\$	10,632.25	0.55%	\$ 214.09	\$	477,943.96			\$ 1.94
No	v-09	2009	Q4	\$	477,729.87	\$	12,302.80	0.55%	\$ 218.96	\$	490,251.63			\$ 1.94
De	c-09	2009	Q4	\$	490,032.67	\$	11,932.20	0.55%	\$ 224.60	\$	502,189.47	\$	147,549.11	\$ 1.94
Ja	n-10	2010	Q1	\$	501,964.87	\$	11,331.90	0.55%	\$ 230.07	\$	513,526.84			\$ 1.94
Fe	b-10	2010	Q1	\$	513,296.77	\$	15,432.17	0.55%	\$ 235.26	\$	528,964.20			\$ 1.94
Ma	ar-10	2010	Q1	\$	528,728.94	\$	84,670.46	0.55%	\$ 242.33	\$	613,641.73			\$ 1.94
Ap	or-10	2010	Q2	\$	613,399.40	\$	36,720.30	0.55%	\$ 281.14	\$	650,400.84			\$ 1.94
Ma	ıy-10	2010	Q2	\$	650,119.70	\$	92,989.93	0.55%	\$ 297.97	\$	743,407.60			\$ 1.94
Ju	in-10	2010	Q2	\$	743,109.63	\$	98,983.48	0.55%	\$ 340.59	\$	842,433.70			\$ 1.94
Ju	ul-10	2010	Q3	\$	842,093.11	\$	107,692.02	0.89%	\$ 624.55	\$	950,409.68			\$ 1.94
Au	g-10	2010	Q3	\$	949,785.13	\$	90,043.19	0.89%	\$ 704.42	\$	1,040,532.74			\$ 1.94
Se	p-10	2010	Q3	\$	1,039,828.32	\$	86,903.84	0.89%	\$ 771.21	\$	1,127,503.37			\$ 1.94
Oc	ct-10	2010	Q4	\$	1,126,732.16	\$	74,712.79	1.20%	\$ 1,126.73	\$	1,202,571.68			\$ 1.94
No	v-10	2010	Q4	\$	1,201,444.95	\$	10,812.12	1.20%	\$ 1,201.44	\$	1,213,458.51			\$ 1.94
De	c-10	2010	Q4	\$	1,212,257.07	\$	83,822.03	1.20%	\$ 1,212.26	\$	1,297,291.36	\$	801,382.20	\$ 1.94
Ja	n-11	2011	Q1	\$	1,296,079.10	\$	123,920.81	1.47%	\$ 1,587.70	\$	1,421,587.61			\$ 1.94
Fe	b-11	2011	Q1	\$	1,419,999.91	\$	138,066.70	1.47%	\$ 1,739.50	\$	1,559,806.11			\$ 1.94
Ma	ar-11	2011	Q1	\$	1,558,066.61	\$	113,636.61	1.47%	\$ 1,908.63	\$	1,673,611.85			\$ 1.94



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Op	pening Balance (Principal)	nding Adder Revenues	Interest Rate	Interest	Clo	sing Balance	Anr	nual amounts	Board Ap Smart I Funding	Meter
			Apr-11	2011	Q2	\$	1,671,703.22	\$ 72,800.44	1.47%	\$ 2,047.84	\$	1,746,551.50			\$	1.94
			May-11	2011	Q2	\$	1,744,503.66	\$ 100,278.06	1.47%	\$ 2,137.02	\$	1,846,918.74			\$	1.94
			Jun-11	2011	Q2	\$	1,844,781.72	\$ 74,490.08	1.47%	\$ 2,259.86	\$	1,921,531.66			\$	1.94
			Jul-11	2011	Q3	\$	1,919,271.80	\$ 110,329.65	1.47%	\$ 2,351.11	\$	2,031,952.56			\$	1.94
			Aug-11	2011	Q3	\$	2,029,601.45	\$ 60,260.86	1.47%	\$ 2,486.26	\$	2,092,348.57			\$	1.94
			Sep-11	2011	Q3	\$	2,089,862.31	\$ 106,955.05	1.47%	\$ 2,560.08	\$	2,199,377.44			\$	1.94
			Oct-11	2011	Q4	\$	2,196,817.36	\$ 77,205.20	1.47%	\$ 2,691.10	\$	2,276,713.66			\$	1.94
			Nov-11	2011	Q4	\$	2,274,022.56	\$ 76,646.91	1.47%	\$ 2,785.68	\$	2,353,455.15			\$	1.94
			Dec-11	2011	Q4	\$	2,350,669.47	\$ 105,274.00	1.47%	\$ 2,879.57	\$	2,458,823.04	\$	1,187,298.72	\$	1.94
			Jan-12	2012	Q1	\$	2,455,943.47	\$ 106,291.01	1.47%	\$ 3,008.53	\$	2,565,243.01			\$	1.94
			Feb-12	2012	Q1	\$	2,562,234.48	\$ 84,305.21	1.47%	\$ 3,138.74	\$	2,649,678.43			\$	1.94
			Mar-12	2012	Q1	\$	2,646,539.69	\$ 124,853.82	1.47%	\$ 3,242.01	\$	2,774,635.52			\$	1.94
			Apr-12	2012	Q2	\$	2,771,393.51	\$ 66,626.85	1.47%	\$ 3,394.96	\$	2,841,415.32			\$	1.94
			May-12	2012	Q2	\$	2,838,020.36	\$ 113,244.70	1.47%	\$ 3,476.57	\$	2,954,741.63				
			Jun-12	2012	Q2	\$	2,951,265.06	\$ 38,203.56	1.47%	\$ 3,615.30	\$	2,993,083.92				
			Jul-12	2012	Q3	\$	2,989,468.62	\$ 9,289.96	1.47%	\$ 3,662.10	\$	3,002,420.68				
			Aug-12	2012	Q3	\$	2,998,758.58	\$ 97.82	1.47%	\$ 3,673.48	\$	3,002,529.88				
			Sep-12	2012	Q3	\$	2,998,856.40	\$ -	1.47%	\$ 3,673.60	\$	3,002,530.00				
			Oct-12	2012	Q4	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Nov-12	2012	Q4	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Dec-12	2012	Q4	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00	\$	584,819.02		
			Jan-13	2013	Q1	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Feb-13	2013	Q1	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Mar-13	2013	Q1	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Apr-13	2013	Q2	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			May-13	2013	Q2	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Jun-13	2013	Q2	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Jul-13	2013	Q3	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Aug-13	2013	Q3	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Sep-13	2013	Q3	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Oct-13	2013	Q4	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				
			Nov-13	2013	Q4	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00				



This worksheet calculates the funding adder revenues.

#### Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	0	pening Balance (Principal)	nding Adder Revenues	Interest Rate	Interest	Cle	osing Balance	Anı	nual amounts	Board Approved Smart Meter Funding Adder
			Dec-13	2013	Q4	\$	2,998,856.40		1.47%	\$ 3,673.60	\$	3,002,530.00	\$	44,083.20	
			Total Fund	ling Ad	der Reve	enues	s Collected	\$ 2,998,856.40	=	\$ 99,750.34	\$	3,098,606.74	\$	3,098,606.74	



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	Q1	\$ -			] -	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	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	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	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	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	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-	\$ 2,451.53	\$ -	2,451.53	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	2,451.53	\$ 5,282.89		7,734.42	4.59%	9.38	9.38
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	7,734.42	\$ 4,500.55		12,234.97	4.59%	29.58	38.96
2010 Q1	0.55%	4.34%	May-07	2007	Q2	12,234.97	\$ 5,649.54		17,884.51	4.59%	46.80	85.76
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	17,884.51	\$ 10,159.68		28,044.19	4.59%	68.41	154.17
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	28,044.19	\$ 5,139.97		33,184.16	4.59%	107.27	261.44
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	33,184.16	\$ 4,318.90		37,503.06	4.59%	126.93	388.37
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	37,503.06	\$ 21,612.31		59,115.37	4.59%	143.45	531.82
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	59,115.37	\$ 294.43		59,409.80	5.14%	253.21	785.03
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	59,409.80	\$ 622.00		60,031.80	5.14%	254.47	1,039.50
2011 Q4	1.47%	3.92%	Dec-07	2007	Q4	60,031.80	\$ 3,875.44		63,907.24	5.14%	257.14	1,296.63
2012 Q1	1.47%	3.92%	Jan-08	2008	Q1	63,907.24	\$ 1,159.16		65,066.40	5.14%	273.74	1,570.37
2012 Q2	1.47%	3.51%	Feb-08	2008	Q1	65,066.40	\$ 25,909.44		90,975.84	5.14%	278.70	1,849.07
2012 Q3	1.47%	3.51%	Mar-08	2008	Q1	90,975.84	\$ 15,652.99		106,628.83	5.14%	389.68	2,238.75
2012 Q4	1.47%	3.23%	Apr-08	2008	Q2	106,628.83	\$ 11,118.39		117,747.22	4.08%	362.54	2,601.29
2013 Q1	1.47%	3.23%	May-08	2008	Q2	117,747.22			124,671.88	4.08%	400.34	3,001.63
2013 Q2	1.47%	3.23%	Jun-08	2008	Q2	124,671.88	\$ 8,815.74		133,487.62	4.08%	423.88	3,425.51
2013 Q3	1.47%	3.23%	Jul-08	2008	Q3	133,487.62		\$ -	133,487.62	3.35%	372.65	3,798.17
2013 Q4	1.47%	3.23%	Aug-08	2008	Q3	133,487.62	\$ -	\$ -	133,487.62	3.35%	372.65	4,170.82

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Sep-08	2008	Q3	133,487.62	\$	8,419.74	\$	-	141,907.36	3.35%	372.65	4,543.47
Oct-08	2008	Q4	141,907.36	\$	-	\$	-	141,907.36	3.35%	396.16	4,939.63
Nov-08	2008	Q4	141,907.36	\$	-	\$	-	141,907.36	3.35%	396.16	5,335.79
Dec-08	2008	Q4	141,907.36	\$	9,481.61	\$	18.00	151,406.97	3.35%	396.16	5,731.95
Jan-09	2009	Q1	151,406.97	\$	7,363.29	\$	1,202.83	159,973.09	2.45%	309.12	6,041.07
Feb-09	2009	Q1	159,973.09	\$	7,464.76	\$	1,202.83	168,640.69	2.45%	326.61	6,367.68
Mar-09	2009	Q1	168,640.69	\$	33,090.36	\$	1,202.83	202,933.88	2.45%	344.31	6,711.99
Apr-09	2009	Q2	202,933.88	\$	10,518.67	\$	1,202.83	214,655.38	1.00%	169.11	6,881.10
May-09	2009	Q2	214,655.38	\$	4,494.50	\$	1,202.83	220,352.72	1.00%	178.88	7,059.98
Jun-09	2009	Q2	220,352.72	\$	1,808.08	\$	1,202.83	223,363.63	1.00%	183.63	7,243.61
Jul-09	2009	0.3	223,363.63	\$	1,654.87	\$	1,202.83	226,221.33	0.55%	102.37	7,345.98
Aug-09	2009	Q3	226,221.33	\$	6,706.80	\$	1,202.83	234,130.97	0.55%	103.68	7,449.67
Sep-09	2009	Q3	234,130.97	\$	4,256.04	\$	1,202.83	239,589.84	0.55%	107.31	7,556.98
Oct-09	2009	Q4	239,589.84	-\$	39,145.55	\$	1,202.83	201,647.12	0.55%	109.81	7,666.79
Nov-09	2009	04	201,647.12	\$	42,943.17	\$	1,202.83	245,793.13	0.55%	92.42	7,759.21
Dec-09	2009	04	245,793.13	\$	17,873.36	\$	1,202.83	264,869.32	0.55%	112.66	7,871.87
Jan-10	2010	Q1	264,869.32	\$	1,486.16	\$	24,941.50	291,296.98	0.55%	121.40	7,993.27
Feb-10	2010	Q1	291,296.98	\$	14,861.09	\$	24,941.50	331,099.57	0.55%	133.51	8,126.78
Mar-10			331,099.57	\$	4,463.60	\$	24,941.50	360,504.67	0.55%		8,278.53
Apr-10	2010	Q1 Q2	·			\$	·	386.773.00		151.75	8.443.76
			360,504.67	\$	1,326.83		24,941.50		0.55%	165.23	-, -
May-10	2010	Q2	386,773.00	\$	15,041.47	\$	24,941.50	426,755.97	0.55%	177.27	8,621.03
Jun-10	2010	Q2	426,755.97	\$	15,444.29	\$	24,941.50	467,141.76	0.55%	195.60	8,816.63
Jul-10	2010	Q3	467,141.76	\$	6,138.74	\$	24,941.50	498,222.00	0.89%	346.46	9,163.09
Aug-10	2010	Q3	498,222.00	\$	22,390.65	\$	24,941.50	545,554.15	0.89%	369.51	9,532.61
Sep-10	2010	Q3	545,554.15	\$	10,783.83	\$	24,941.50	581,279.48	0.89%	404.62	9,937.23
Oct-10	2010	Q4	581,279.48	\$	8,865.20	\$	24,941.50	615,086.18	1.20%	581.28	10,518.51
Nov-10	2010	Q4	615,086.18	\$	80,115.54	\$	24,941.50	720,143.22	1.20%	615.09	11,133.59
Dec-10	2010	Q4	720,143.22	\$	55,395.16	\$	24,941.50	800,479.88	1.20%	720.14	11,853.74
Jan-11	2011	Q1	800,479.88	-\$	2,290.12	\$	39,190.00	837,379.76	1.47%	980.59	12,834.32
Feb-11	2011	Q1	837,379.76	\$	7,547.51	\$	39,190.00	884,117.27	1.47%	1,025.79	13,860.11
Mar-11	2011	Q1	884,117.27	\$	46,780.60	\$	39,190.00	970,087.87	1.47%	1,083.04	14,943.16
Apr-11	2011	Q2	970,087.87	\$	7,010.41	\$	39,190.00	1,016,288.28	1.47%	1,188.36	16,131.52
May-11	2011	Q2	1,016,288.28	\$	33,968.56	\$	39,190.00	1,089,446.84	1.47%	1,244.95	17,376.47
Jun-11	2011	Q2	1,089,446.84	\$	20,342.34	\$	39,190.00	1,148,979.18	1.47%	1,334.57	18,711.04
Jul-11	2011	Q3	1,148,979.18	\$	-	\$	39,190.00	1,188,169.18	1.47%	1,407.50	20,118.54
Aug-11	2011	Q3	1,188,169.18	\$	-	\$	39,190.00	1,227,359.18	1.47%	1,455.51	21,574.05
Sep-11	2011	Q3	1,227,359.18	\$	72,017.67	\$	39,190.00	1,338,566.85	1.47%	1,503.51	23,077.56
Oct-11	2011	Q4	1,338,566.85	\$	37,335.60	\$	39,190.00	1,415,092.45	1.47%	1,639.74	24,717.31
Nov-11	2011	Q4	1,415,092.45	\$	14,283.49	\$	39,190.00	1,468,565.94	1.47%	1,733.49	26,450.79
Dec-11	2011	Q4	1,468,565.94	\$	51,222.63	\$	39,190.00	1,558,978.57	1.47%	1,798.99	28,249.79
Jan-12	2012	Q1	1,558,978.57	\$	67,664.37	\$	43,684.75	1,670,327.69	1.47%	1,909.75	30,159.54
Feb-12	2012	Q1	1,670,327.69	\$	33,498.66	\$	43,684.75	1,747,511.10	1.47%	2,046.15	32,205.69
Mar-12	2012	Q1	1,747,511.10	\$	8,199.76	\$	43,684.75	1,799,395.61	1.47%	2,140.70	34,346.39
Apr-12	2012	Q2	1,799,395.61	\$	37,949.82	\$	43,684.75	1,881,030.18	1.47%	2,204.26	36,550.65
May-12	2012	Q2	1,881,030.18	\$	22,060.54	\$	43,684.75	1,946,775.47	1.47%	2,304.26	38,854.91
Jun-12	2012	Q2	1,946,775.47	\$	21,225.20	\$	43,684.75	2,011,685.42	1.47%	2,384.80	41,239.71
Jul-12	2012	Q3	2,011,685.42	\$	26,283.53	\$	43,684.75	2,081,653.70	1.47%	2,464.31	43,704.03
Aug-12	2012	Q3	2,081,653.70	\$	21,496.70	\$	43,684.75	2,146,835.15	1.47%	2,550.03	46,254.05
Sep-12	2012	Q3	2,146,835.15	\$	15,235.55	\$	43,684.75	2,205,755.45	1.47%	2,629.87	48,883.92
Oct-12	2012	Q4	2,205,755.45		.,	\$	43,684.75	2,249,440.20	1.47%	2,702.05	51,585.97
Nov-12	2012	Q4	2,249,440.20			\$	43,684.75	2,293,124.95	1.47%	2,755.56	54,341.54
Dec-12	2012	04	2,293,124.95			\$	43,684.75	2,336,809.70	1.47%	2,809.08	57,150.62
Jan-13	2013	Q1	2,336,809.70			Ť	,	2,336,809.70	1.47%	2,862.59	60,013.21
Feb-13	2013	Q1	2,336,809.70					2,336,809.70	1.47%	2,862.59	62,875.80
Mar-13	2013	Q1	2,336,809.70					2,336,809.70	1.47%	2,862.59	65,738.39
Apr-13	2013	Q2	2,336,809.70					2,336,809.70	1.47%	2,862.59	68,600.98
May-13	2013	Q2 Q2	2,336,809.70					2,336,809.70	1.47%	2,862.59	71,463.58
	2013	Q2 Q2							1.47%		
Jun-13			2,336,809.70					2,336,809.70		2,862.59	74,326.17
Jul-13	2013	Q3	2,336,809.70					2,336,809.70	1.47%	2,862.59	77,188.76
Aug-13	2013	Q3	2,336,809.70					2,336,809.70	1.47%	2,862.59	80,051.35
Sep-13	2013	Q3	2,336,809.70					2,336,809.70	1.47%	2,862.59	82,913.94
Oct-13	2013	Q4	2,336,809.70					2,336,809.70	1.47%	2,862.59	85,776.54
Nov-13	2013	Q4	2,336,809.70					2,336,809.70	1.47%	2,862.59	88,639.13
Dec-13	2013	Q4	2,336,809.70					2,336,809.70	1.47%	2,862.59	91,501.72



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	rtization nse Sheet 5)	and	nulative OM&A Amortization ense	OM8 Amo	rage Cumulative AA and ortization ense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	OM&	tization
2006	\$	-	\$	-	\$	-	\$	-	4.37%	\$	-
2007	\$	64,018.39	\$	-	\$	64,018.39	\$	32,009.20	4.73%	\$	1,513.23
2008	\$	86,941.17	\$	18.02	\$	150,977.58	\$	107,497.98	3.98%	\$	4,278.42
2009	\$	99,810.69	\$	14,433.06	\$	265,221.32	\$	208,099.45	1.14%	\$	2,367.13
2010	\$	232,578.94	\$	229,453.74	\$	727,254.00	\$	496,237.66	0.80%	\$	3,957.50
2011	\$	353,732.96	\$	470,279.74	\$	1,551,266.70	\$	1,139,260.35	1.47%	\$	16,747.13
2012	\$	216,004.45	\$	521,536.49	\$	2,288,807.63	\$	1,920,037.17	1.47%	\$	28,224.55
2013	\$	586,413.29	\$	532,590.89	\$	3,407,811.82	\$	2,848,309.73	1.47%	\$	41,870.15
Cumulativ	ve Interest	to 2011								\$	28,863.41
Cumulativ	ve Interest	to 2012								\$	57,087.95
Cumulativ	ve Interest	to 2013								\$	98,958.11



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's expectation is that distributors will file for a final review of prudence at the earliest opportunity. 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.

		2006		2007		2008		2009		2010	2011	2012	2013	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$	-	\$	65,042.95	\$	88,313.34	\$	132,411.58	\$	722,376.53	\$ 1,320,408.20	\$ 1,188,167.30	\$ 1,531,644.66	\$ 3,516,719.91
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check <b>one</b> of the boxes below)	\$	-	\$	1,296.63	\$	4,435.31	\$	2,139.92	\$	3,981.87	\$ 16,396.05	\$ 28,900.83	 	\$ 57,150.62
X Sheet 8A (Interest calculated on monthly balances)	\$	-	\$	1,296.63	\$	4,435.31	\$	2,139.92	\$	3,981.87	\$ 16,396.05	\$ 28,900.83	\$ 34,351.10	\$ 57,150.62
Sheet 8B (Interest calculated on average annual balances)														
SMFA Revenues (from Sheet 8)	\$	74,715.09	\$	141,246.20	\$	143,012.20	\$	142,991.38	\$	794,114.23	\$ 1,159,864.37	\$ 542,912.93	\$ -	\$ 2,998,856.40
SMFA Interest (from Sheet 8)	\$	792.59	\$	6,789.61	\$	11,002.00	\$	4,557.73	\$	7,267.97	\$ 27,434.35	\$ 41,906.09	\$ 44,083.20	\$ 143,833.54
Net Deferred Revenue Requirement	-\$	75,507.68	-\$	81,696.22	-\$	61,265.55	-\$	12,997.61	-\$	75,023.80	\$ 149,505.53	\$ 632,249.11	\$ 1,487,561.46	\$ 431,180.58
Number of Metered Customers (average for 2013 test year)												<del></del>	46705	

assets)

- Number of metered customers for which smart meter were deployed as part of program). Residential and GS < 50 kW customer classes and any other metered classes involved (e.g. GS 50 to 4999 kW for which interval meters were upgraded to utilize AMI and ODS

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

Years for coll	ection or refunding	1	
	remental Revenue Requirement from 2006 to December 31, 2012 nterest on OM&A and Amortization	\$ 3,573,870.52	
SMFA Rever	nues collected from 2006 to 2013 test year (inclusive) Simple Interest on SMFA Revenues	\$ 3,142,689.94	
Net Deferred	Revenue Requirement	\$ 431,180.58	
SMDR	May 1, 2013 - April 30, 2014	\$ 0.77	Match
Check: Fore	casted SMDR Revenues	\$ 431,554.20	ノ

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

Incremental Revenue Requirement for 2013	\$ 1,531,644.66	
SMIRR	\$ 2.73	Match
Check: Forecasted SMIRR Revenues	\$ 1,530,055.80	



This worksheet calculates the class-specific SMDRs according to accepted practice. A distributor may choose to use its own methodology, but should provide analogous support for its allocation and derivation of class-specific SMDRs and SMIRRs.

Class-specific SMDRs

Revenue Requirement for Historical Years		2006		2007		2008		2009		2010		2011		2012	Total 2006 to 2012			Residential	GS	< 50 kW	GS :	50 to 4999 kW		Other (please specify)	Total
																Check Row if SMDR/SMIRR apply to class		Х		х					2
																		%		%		%		%	
																Weighted Meter Cost - Capital									0%
Return on Capital	\$	-	\$	780.22	\$	1,073.14	\$	14,271.79	\$	222,541.08	\$	428,941.01	\$	427,980.41	\$ 1,095,587.65	Allocated per class	\$	-	\$	-	\$		\$	-	
Depreciation/Amortization expense and related interest	\$	<u>:</u>	\$ \$	-	\$ \$	18.02 0.92 18.94	\$ \$	14,433.06 270.35 14,703.40	\$ \$	229,453.74 1,977.47 231,431.21	\$ \$	470,279.74 9,357.54 479,637.28	\$ \$	521,536.49 20,436.61 541,973.10	\$ 1,267,763.92	Weighted Meter Cost - Capital Allocated per class	\$	0%	\$	0%	\$	0%	\$	0%	0%
Operating Expenses and relater interest	d S		s	64,018.39	s	86.941.17	s	99,810.69	S	232.578.94	s	353.732.96	s	216,004.45		Number of Smart Meters installed by		#		#		#		#	
	\$	-	\$	1,296.63	\$	4,434.39	\$	1,869.57	S	2,004.40	\$	7,038.51	\$	8,464.22		Class		42,737		4,061					
	\$	-	\$	65,315.02	\$	91,375.56	\$	101,680.26	\$	234,583.34	\$	360,771.47	\$	224,468.67	\$ 1,078,194.33	Allocated per class	\$	984,631.63	\$	93,562.70		(	)	0	
Revenue Requirement before T	axes/PILs														\$ 3,441,545.90		\$	984,631.63	\$	93,562.70	\$		\$		\$ 2,363,351.57
																Revenue Requirement before PILs		91.32%		8.68%		0.00%		0.00%	100%
Grossed-up Taxes/PILs	\$		\$	244.34	\$	281.01	\$	3,896.04	\$	37,802.78	\$	67,454.49	\$	22,645.96	\$ 132,324.62		\$	120,841.86	\$	11,482.76	\$	-	\$		
Total Revenue Requirement plu interest on OM&A and depreciation expense	ıs															Percentage of costs allocated to each c Percentage of costs for classes with SMDR/SMIRR		1,105,473.49 91.32% 91.32% 91.32%	\$	105,045.46 8.68% 8.68% 8.68%	\$	0.00% 0.00% 0.00%	\$	0.00% 0.00% 0.00%	
																		%		%		%		%	
													SMF	A Revenues dire	ctly attributable to class	s									0%
																		0.00%		0.00%		0.00%		0.00%	0.00%
															enues (from other meter	red classes) attributed evenly	_	50.00%	_	50.00%		0.00%		0.00%	
													Tota	ıl				50.00%		50.00%		0.00%		0.00%	
SMFA Revenues plus interest of	expense														\$ 3,142,689.94		\$	1,571,344.97	\$	1,571,344.97	\$	-	\$	-	
Net Deferred Revenue Require	ment to be re	ecovered vi	a SMDR												\$ 431,180.58		-\$	465,871.48	-\$	1,466,299.51	\$		\$		
Average number of metered cu:	stomers by o	lass (2013	6)												Average number of	customers (2013)		42737		4061		0		0	
Number of Years for SMDR red	covery															years		0		0		0		0	



This worksheet calculates the class-specific SMIRRs according to accepted practice. A distributor may choose to use its own methodology, but should provide analogous support for its allocation and derivation of class-specific SMDRs and SMIRRs.

Class-specific SMDRs

Revenue Requirement for 2013	2013	Explanation / Allocator Check Row if SMDR/SMIRR apply to class		Residential X	GS -	< 50 kW X	GS	5 50 to 4999 kW	C	Other (please specify)	Total 2
				%		%		%		%	
Return on Capital	\$ 346,904.08	Weighted Meter Cost - Capital Allocated per class	\$	0.00%	\$	0.00%	\$	0.00%	\$	0.00%	0%
Depreciation/Amortization expense	\$ 532,590.89	Weighted Meter Cost - Capital Allocated per class	\$	0.00%	\$	0.00%	\$	0.00%	\$	0.00%	0%
Operating Expenses	\$ 586,413.29	Number of Smart Meters installed by Class		# 42.737		# 4.061		#		#	
	\$ 586,413.29	Allocated per class	\$	535,525.98	\$	50,887.31	\$	=	\$	-	
Revenue Requirement before Taxes/PILs	\$ 1,465,908.27		\$	535,525.98	\$	50,887.31	\$	-	\$	-	#######
		Revenue Requirement before PILs		91.32%		8.68%		0.00%		0.00%	100%
Grossed-up Taxes/PILs	\$ 65,736.39		\$	60,031.97	\$	5,704.42	\$	-	\$	-	
Total Revenue Requirement for	\$ 1,531,644.66		\$	595,557.95	\$	56,591.73	\$	-	\$	-	
2013	\$ -	Percentage of costs allocated to each cla Percentage of costs for classes with SMDR/SMIRR	15	91.32% 91.32% 91.32%		8.68% 8.68% 8.68%		0.00% 0.00% 0.00%		0.00% 0.00% 0.00%	
Average number of metered customers by class (2013)				42,737		4,061		-		-	
The SMIRR is recovered as an annualized rate until the effective date of the distributor's next rebased rates resulting from a cost of service application	1	year		1		1		1			1
Smart Meter Incremental Revenue Requirement Rate Rider (\$/month per metered customer in the customer class)			\$	1.16	\$	1.16					
Estimated SMIRR Revenues	\$ 651,428.16		\$	594,899.04	\$	56,529.12	\$	-	\$	-	