

March 20, 2011

Ontario Energy Board
P.O. Box 2319
2300 Yonge Street
27th Floor
Toronto, ON M4P 1E4

Attention: Ms. Kirsten Walli, Board Secretary

Dear Ms. Walli:

Re: 2011 COS Rate Application
EB-2010-0145
Responses to Technical Conference Questions

Enclosed please find Woodstock Hydro Services Inc. responses to the Technical Conference Questions (TCQ's) filed by Vulnerable Energy Consumers Coalition in the above noted proceeding.

The TCQ Responses will be filed through the Board's web portal (PDF) and also sent by email and 2 paper copies.

Should there be any questions, please do not hesitate to contact me.

Respectfully submitted,

Original Signed By:

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QUESTION TC #1

Reference: OEB Staff #11 a)

- a) The original question requested the 'units of measurement' for the CDM Savings" and "Ontario Real GDP Index" variables. Please respond to the original question.

Response

As outlined in response to OEB Staff #11 a) The variable referenced on Exhibit 3 / Tab 2 / Schedule 1 / p. 8 as 'CDM Savings' should have been referenced as 'OPA CDM Activity'. The unit of measure for the OPA CDM Activity variable is kWh. The unit of measure for the "Ontario Real GDP Index" variable is an index number relative to the 1997 base number of 100.

QUESTION TC #2

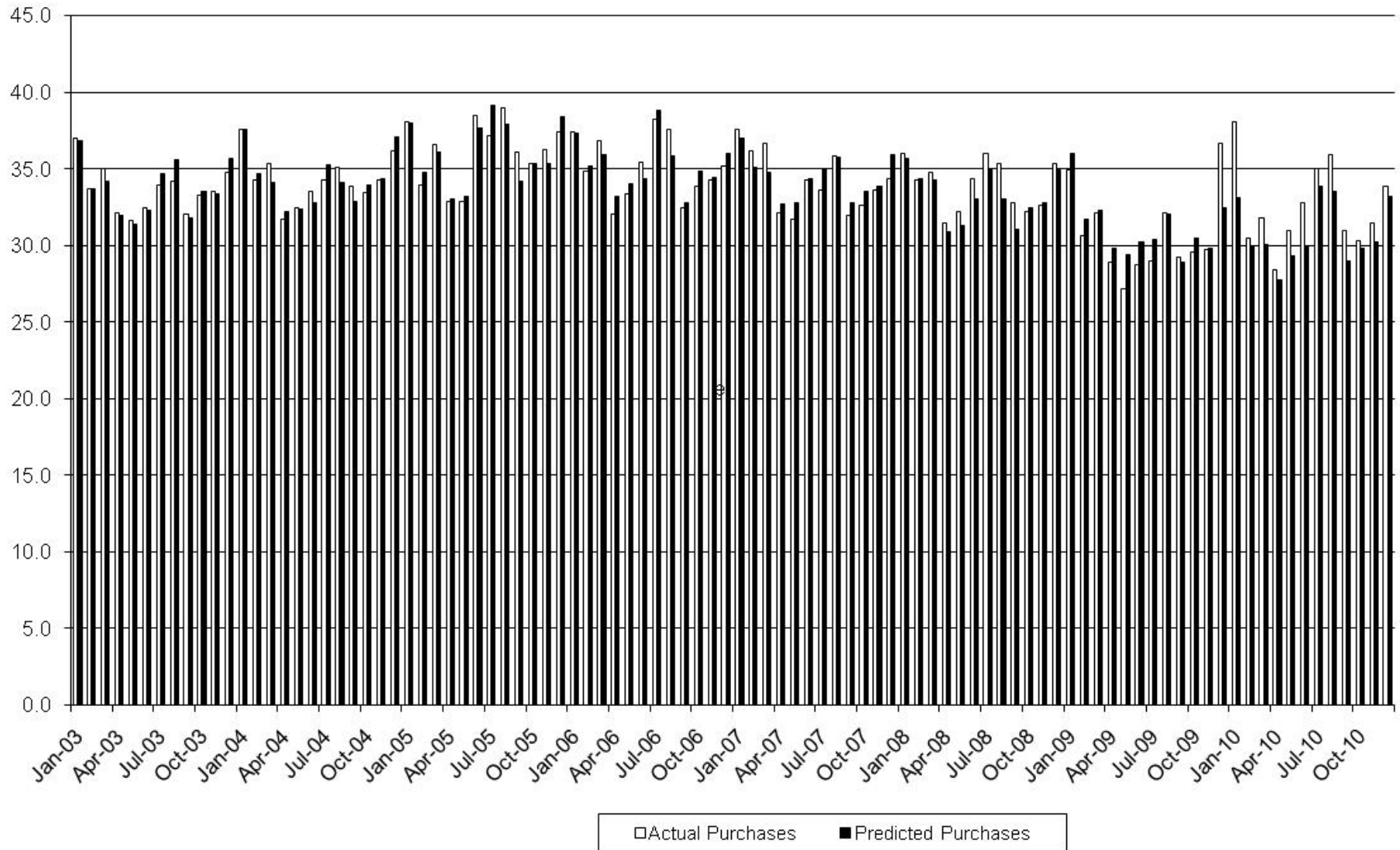
Reference: OEB Staff #12

- a) Please update the response to part (a) include 2010 and provide a comparison of the total 2010 predicted versus actual purchases.

Response:

It assumed that VECC is seeking an update to OEB Staff #12 part (b) not part (a) to include 2010 and provide a comparison of the total 2010 predicted versus actual purchases. The update to OEB Staff 12b to include 2010 data is provided below. Using the forecasting formula provided in the application, the 2010 predicted value is 369,725,315 kWh and the actual amount is 389,934,123 kWh

Actual Vs. Predicted Purchases (GWh)



	Actual Purchases	Predicted Purchases	% Difference		Actual Purchases	Predicted Purchases	% Difference
Jan-03	37.0	36.8	(0.5%)	Jan-07	37.6	37.0	(1.7%)
Feb-03	33.7	33.7	(0.1%)	Feb-07	36.2	35.1	(2.9%)
Mar-03	35.0	34.2	(2.3%)	Mar-07	36.7	34.7	(5.3%)
Apr-03	32.1	31.9	(0.6%)	Apr-07	32.2	32.7	1.8%
May-03	31.6	31.4	(0.7%)	May-07	31.7	32.8	3.4%
Jun-03	32.4	32.3	(0.4%)	Jun-07	34.2	34.3	0.3%
Jul-03	33.9	34.7	2.2%	Jul-07	33.6	35.0	4.1%
Aug-03	34.2	35.6	4.1%	Aug-07	35.8	35.7	(0.3%)
Sep-03	32.0	31.8	(0.6%)	Sep-07	32.0	32.8	2.5%
Oct-03	33.3	33.5	0.7%	Oct-07	32.6	33.5	2.7%
Nov-03	33.5	33.4	(0.3%)	Nov-07	33.6	33.9	0.7%
Dec-03	34.8	35.6	2.4%	Dec-07	34.3	35.9	4.6%
Jan-04	37.6	37.6	(0.0%)	Jan-08	36.0	35.7	(0.8%)
Feb-04	34.2	34.7	1.2%	Feb-08	34.3	34.3	0.1%
Mar-04	35.4	34.1	(3.5%)	Mar-08	34.7	34.3	(1.3%)
Apr-04	31.7	32.2	1.5%	Apr-08	31.4	30.9	(1.8%)
May-04	32.4	32.4	(0.2%)	May-08	32.2	31.3	(2.9%)
Jun-04	33.6	32.8	(2.3%)	Jun-08	34.4	33.1	(3.8%)
Jul-04	34.3	35.2	2.8%	Jul-08	36.0	35.0	(2.8%)
Aug-04	35.1	34.1	(2.9%)	Aug-08	35.4	33.0	(6.6%)
Sep-04	33.9	32.9	(2.9%)	Sep-08	32.8	31.0	(5.4%)
Oct-04	33.5	33.9	1.5%	Oct-08	32.2	32.4	0.7%
Nov-04	34.3	34.4	0.2%	Nov-08	32.6	32.8	0.6%
Dec-04	36.1	37.1	2.6%	Dec-08	35.3	34.9	(1.1%)
Jan-05	38.1	38.0	(0.3%)	Jan-09	34.9	36.0	3.0%
Feb-05	33.9	34.7	2.4%	Feb-09	30.7	31.7	3.4%
Mar-05	36.6	36.1	(1.3%)	Mar-09	32.1	32.3	0.6%
Apr-05	32.9	33.0	0.5%	Apr-09	28.9	29.8	3.2%
May-05	32.9	33.2	0.9%	May-09	27.1	29.4	8.3%
Jun-05	38.4	37.6	(2.2%)	Jun-09	28.7	30.2	5.1%
Jul-05	37.2	39.2	5.3%	Jul-09	29.0	30.3	4.8%
Aug-05	39.0	37.9	(2.8%)	Aug-09	32.2	32.0	(0.4%)
Sep-05	36.1	34.2	(5.3%)	Sep-09	29.2	28.9	(1.0%)
Oct-05	35.3	35.3	0.0%	Oct-09	29.6	30.4	3.0%
Nov-05	36.2	35.3	(2.4%)	Nov-09	29.7	29.8	0.5%
Dec-05	37.4	38.4	2.8%	Dec-09	36.6	32.4	(11.5%)
Jan-06	37.4	37.3	(0.2%)	Jan-10	38.0	33.1	(13.0%)
Feb-06	34.9	35.1	0.8%	Feb-10	30.4	30.0	(1.5%)
Mar-06	36.9	35.9	(2.5%)	Mar-10	31.8	30.0	(5.4%)
Apr-06	32.0	33.2	3.7%	Apr-10	28.4	27.7	(2.3%)
May-06	33.4	34.0	1.8%	May-10	31.0	29.3	(5.3%)
Jun-06	35.4	34.3	(3.1%)	Jun-10	32.8	30.0	(8.6%)
Jul-06	38.2	38.8	1.6%	Jul-10	35.0	33.9	(3.2%)
Aug-06	37.5	35.9	(4.5%)	Aug-10	35.9	33.5	(6.7%)
Sep-06	32.4	32.8	1.2%	Sep-10	30.9	29.0	(6.4%)
Oct-06	33.9	34.8	2.8%	Oct-10	30.3	29.8	(1.7%)
Nov-06	34.3	34.4	0.5%	Nov-10	31.5	30.2	(3.9%)
Dec-06	35.2	36.0	2.4%	Dec-10	33.9	33.2	(2.1%)

b) For the years 2009 and 2010, please provide a schedule that sets out:

1. The actual HDD and CDD values for the year
2. The "weather normal" HDD and CDD values
3. The difference between the actual and weather normal values for HDD and CDD
4. The product of these differences and the respective coefficients for HDD and CDD, as established in through the regression analysis.
5. The actual purchases for each year.
6. The "weather normal" purchases for each year calculated by adjusting the actual purchases (item (5)) by the estimated impact of weather (item (4)).

Response:

a) The requested information is provided below.

Year	Actual Heating Degree Days (A)	Actual Cooling Degree Days (B)	Weather Normal Heating Degree Days (C)	Weather Normal Cooling Degree Days (D)	Difference in Heating Degree Days (F) = (A) - (C)	Difference in Cooling Degree Days (G) = (B) - (D)	Difference in Heating Degree Day apply to Coefficient of 7,006 (GWh) (H) = (F) * 7,006 /1,000,000	Difference in Cooling Degree Day apply to Coefficient of 44,346 (GWh) (I) = (G) * 44,346 /1,000,000	Actual Purchases (GWh) (J)	Estimated Actual Weather Normal (GWh) (K) = (J) - (H) - (I)
2009	3,914	160	3,878	255	35.8	(95.0)	0.3	(4.2)	368.7	372.7
2010	3,665	369	3,878	255	(212.9)	114.0	(1.5)	5.1	389.9	386.4

QUESTION TC #3

Reference: OEB Staff #22 a)

- a) Please confirm that the revenues at existing rates as reported here are net of the transformer ownership allowance. If not, please re-do the table such that the revenue by class reflect the transformer ownership discount.

Response:

WHSI confirms that revenues at the existing rates are reported as net of the transformer ownership allowance.

QUESTION TC #4

Reference: VECC #3 b)

VECC Interrogatory Appendix E

a) Please reconcile the Net Annual Energy Savings values for 2006, 2007 and 2008 reported in response to VECC #3 b) with those set out in the OPA audited results provided in Appendix E.

Response:

The responses to VECC #3b) included CDM OPA results from the OPA Excel file:

2006-2008 OPA Conservation Results Woodstock Hydro Services Inc .xls

Attachment E included CDM OPA results from the OPA Excel file:

2006-8 Final+2009 Preliminary.OPA CDM Results.Woodstock Hydro Services Inc...xls

The Final Program, as released by the OPA January 24, 2011:

2006-2009 Final OPA CDM Results-Update.Woodstock Hydro Services Inc..xls is summarized below:

2006 – 2008 OPA Conservation Results for Woodstock Hydro Services Inc.			
	Net Annual Energy Savings (kWh)		
	2006	2007	2008
Program Year			
2006	982,407.18	982,407.18	982,407.18
2007	0.00	977,911.90	556,500.18
2008	0.00	0.00	971,911.60
TOTAL	982,407.18	1,960,319.08	2,510,818.96

- b) Please confirm that the Net kWh Savings reported in Appendix E for the first year of a program (i.e., 2007 savings for 2007 programs) are annualized values (i.e., they assume that the programs were in effect for the full year).

Response:

The results reported by the OPA are based on actual savings by program. The Net kWh Savings reported in Appendix E for the first year of a program are allocated using the following OPA methodology:

OPA Conservation & Demand Management Programs Allocation Methodology

#	Initiative Name	Program Name	Program Year	Results Status	Allocation Methodology
1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	Measure level allocation based on 2006 residential energy throughput by LDC
2	Cool & Hot Savings Rebate	Consumer	2006	Final	Measure level allocation based on 2006 residential energy throughput by LDC
3	Every Kilowatt Counts	Consumer	2006	Final	Measure level allocation based on 2006 residential energy throughput by LDC
6	Great Refrigerator Roundup	Consumer	2007	Final	Actual LDC specific results
7	Cool & Hot Savings Rebate	Consumer	2007	Final	Measure level allocation based on 2007 residential energy throughput by LDC
8	Every Kilowatt Counts	Consumer	2007	Final	Measure level allocation based on 2007 residential energy throughput by LDC
9	peaksaver [®]	Consumer, Business	2007	Final	Actual LDC specific results
10	Summer Savings	Consumer	2007	Final	Actual LDC specific results
11	Aboriginal	Consumer	2007	Final	Actual LDC specific results
12	Affordable Housing Pilot	Consumer Low-Income	2007	Final	Actual LDC specific results
13	Social Housing Pilot	Consumer Low-Income	2007	Final	Initiative level allocation based on 2007 Residential Energy Throughput
14	Energy Efficiency Assistance for Houses Pilot	Consumer Low-Income	2007	Final	Initiative level allocation based on 2007 Residential Energy Throughput
19	Renewable Energy Standard Offer	Consumer, Business, Industrial	2007	Final	Actual LDC specific results
20	Great Refrigerator Roundup	Consumer	2008	Final	Actual LDC specific results
21	Cool Savings Rebate	Consumer	2008	Final	Measure level allocation based on 2008 Residential Energy Throughput
22	Every Kilowatt Counts Power Savings Event	Consumer	2008	Final	Measure level allocation based on 2008 Residential Energy Throughput
23	peaksaver [®]	Consumer, Business	2008	Final	Actual LDC specific results
24	Summer Sweepstakes	Consumer	2008	Final	Actual LDC specific results
25	Electricity Retrofit Incentive	Consumer, Business	2008	Final	LDC's respective proportion of province-wide reported gross demand savings.
26	Toronto Comprehensive	Consumer, Consumer Low-Income, Business	2008	Final	Program run exclusively in Toronto Hydro-Electric System Ltd. service territory
35	Great Refrigerator Roundup	Consumer	2009	Final	Actual LDC specific results
36	Cool Savings Rebate	Consumer	2009	Final	Measure level allocation based on 2009 Residential Energy Throughput
37	Every Kilowatt Counts Power Savings Event	Consumer	2009	Final	Measure level allocation based on 2009 Residential Energy Throughput
38	peaksaver [®]	Consumer, Business	2009	Final	Actual LDC specific results
39	Electricity Retrofit Incentive	Consumer, Business	2009	Final	LDC's respective proportion of province-wide reported gross demand savings.
40	Toronto Comprehensive	Consumer, Consumer Low-Income, Business, Industrial	2009	Final	Program run exclusively in Toronto Hydro-Electric System Ltd. service territory
43	Multi-Family Energy Efficiency Rebates	Consumer, Consumer Low-Income	2009	Final	LDC's respective proportion of province-wide reported gross demand savings.

c) The original Application used historical results to estimate the CDM value for 2009. Please confirm whether Appendix E sets out the best estimate currently available for the actual results for 2009. If not, please provide.

Response:

Appendix E represented the best available estimates at the time of submission. Final results for 2009 OPA Program were released January 24, 2011.

Net Summer Peak Demand Savings (MW)				Gross Summer Peak Demand Savings (MW)			
#	Program Year	Results Status	2009	#	Program Year	Results Status	2009
1	2006 Prog	Final	0.0476	1	2006 Prog	Final	0.0563
2	2007 Prog	Final	0.1459	2	2007 Prog	Final	0.5029
3	2008 Prog	Final	0.2650	3	2008 Prog	Final	0.3845
4	2009 Prog	Final	2.0546	4	2009 Prog	Final	2.2216
Total			2.5131	Total			3.1653

Net Energy Savings (MWh)				Gross Energy Savings (MWh)			
#	Program Year	Results Status	2009	#	Program Year	Results Status	2009
1	2006 Prog	Final	982	1	2006 Prog	Final	1,097
2	2007 Prog	Final	504	2	2007 Prog	Final	995
3	2008 Prog	Final	841	3	2008 Prog	Final	1,660
4	2009 Prog	Final	2,713	4	2009 Prog	Final	3,559
Total			5,041	Total			7,311

d) Please confirm that for the years 2007 through 2009, the monthly CDM Activity Variable represents the sum of:

1. The total annual savings in the previous years, and
2. An allowance for the annual CDM in the particular year, assuming an equal build up to annual savings in each month.

Response:

The summary outlined is consistent with the detail description provided in response to VECC #3b on how the monthly OPA CDM Activity Variable was developed.

e) If confirmed in part (d), why is it appropriate to base the monthly CDM activity variable on annualized values as opposed to doing the following:

- Base part 1. above on $1/12^{\text{th}}$ of the previous years' CDM carry forward.
- Base part 2. above on monthly savings that sum to the annual value for the year. For example, January would be based on $1/78^{\text{th}}$ of the annual increment, February would be based on $2/78^{\text{th}}$ of the annual increment through to December which would be based on $12/78^{\text{th}}$ of the annual increment.

Response:

The purpose of the OPA CDM Activity Variable is to show increase activity in CDM. It is assumed the activity will increase as new programs are added each year and build on the experience of previous months and years. The method outlined in part e) of the question is another method of defining the OPA CDM Activity and the results of using such a definition have been included in response to part h)

- f) Please confirm that the 2010 and 2011 values for the CDM Activity Variable assume that the total Net Annual Savings for 2008 persist through to 2011.

Response:

The 2010 and 2011 values for the CDM Activity Variable assume that the total Net Annual Savings for 2008 persist through to 2011.

- g) If part (f) is confirmed, please reconcile this assumption with Appendix E, where the 2011 savings for the 2006-2008 programs are less than the reported 2008 savings for these programs.

Response:

The LRAM calculations have been updated to reflect the final results for 2009 OPA Program released January 24, 2011. For 2011, the most recent Net Annual Savings for 2011 are 3,954,732 kWh which is higher than the reported 2008 savings provided in response to VECC #3b. This amount is also higher than the 2011 year end value for OPA CDM Activity variable assumed in the load forecast for the application.

- h) Based on the responses to the previous questions, please undertake the following:
- Provide and explain any revisions required to the Monthly CDM variable (both historic and forecast),
 - Re-estimate the regression model,
 - Provide an updated version of Exhibit 3/Tab 2/Schedule 1, Appendix A, and
 - Provide an updated projection of purchases for 2010 and 2011.

Response:

Based on the responses to the previous questions, the regression analysis has been re-run and the updated projection of purchases is 359,655,691 kWh for 2010 and 349,554,383 kWh for 2011.

This forecast assumes the OPA CDM Activity variable has been calculated in accordance with the method outlined in part e) of the question. In addition, the OPA CDM Activity variable is based on the following CDM results

Net Energy Savings (kWh)

Program Year	Results Status	2006	2007	2008	2009	2010	2011
2006 Programs	Final	982,407	982,407	982,407	982,407	170,622	170,622
2007 Programs	Final	0	977,912	556,500	503,919	503,919	503,764
2008 Programs	Final	0	0	971,912	841,446	833,281	833,281
2009 Programs	Final	0	0	0	2,713,065	2,447,064	2,447,064
2010 Programs	Estimated	0	0	0	0	2,713,065	2,447,064
2011 Programs	Estimated	0	0	0	0	0	1,888,000
Total		982,407	1,960,319	2,510,819	5,040,838	6,667,952	8,289,796

The 2006 to 2009 program information reflects the final results for 2009 OPA Program released January 24, 2011. The 2010 programs are estimated using the same pattern of activity as the 2009 programs. The 2011 programs are estimated based on 10% of the 18,880,000 kWh which is WHSI's 2011-2014 Net Cumulative Energy Savings Target resulting from the Minister's Directive to the Board regarding CDM targets over a four-year period beginning January 1, 2011.

The statistical information supporting the updated forecast is as follows

Statistic	Value
R Square	77.2%
Adjusted R Square	75.4%
F Test	43.3
Coefficient by Variable	
Intercept	(9,952,217)
Heating Degree Days	6,873
Cooling Degree Days	44,709
Spring Fall Flag	(1,173,949)
Number of Days in Month	813,754
OPA CDM Activity	(10)
Ontario Real GDP Monthly %	131,010
T-stats by Coefficient	
Intercept	(1.4)
Heating Degree Days	9.7
Cooling Degree Days	7.7
Spring Fall Flag	(3.4)
Number of Days in Month	4.7
OPA CDM Activity	(8.5)
Ontario Real GDP Monthly %	3.6

The following provides an updated version of Exhibit 3/Tab 2/Schedule 1, Appendix A.

	<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Spring/Fall Flag</u>	<u>Number of Days in Month</u>	<u>OPA CDM Activity</u>	<u>Ontario Real GDP Monthly %</u>	<u>Predicted Purchases</u>
Jan-03	37,017,303	824	0	0	31	0	125.66	37,400,816
Feb-03	33,678,639	713	0	0	28	0	125.81	34,217,123
Mar-03	34,990,452	596	0	1	31	0	125.95	34,695,290
Apr-03	32,097,231	371	2	1	30	0	126.10	32,420,641
May-03	31,610,601	185	0	1	31	0	126.24	31,908,124
Jun-03	32,441,307	48	34	0	30	0	126.39	32,872,545
Jul-03	33,944,718	3	75	0	31	0	126.54	35,233,754
Aug-03	34,152,834	8	94	0	31	0	126.68	36,107,920
Sep-03	32,024,721	76	16	0	30	0	126.83	32,302,055
Oct-03	33,294,540	293	1	0	31	0	126.98	33,943,474
Nov-03	33,498,627	388	0	0	30	0	127.12	33,781,637
Dec-03	34,797,805	585	0	0	31	0	127.27	35,968,657
Jan-04	37,609,316	854	0	0	31	0	127.53	37,849,061
Feb-04	34,240,547	657	0	0	29	0	127.80	34,906,134
Mar-04	35,378,085	498	0	1	31	0	128.06	34,300,015
Apr-04	31,708,884	326	0	1	30	0	128.32	32,336,621
May-04	32,440,167	155	11	1	31	0	128.59	32,510,480
Jun-04	33,560,716	55	27	0	30	0	128.85	32,936,528
Jul-04	34,260,108	7	70	0	31	0	129.12	35,363,195
Aug-04	35,099,601	32	38	0	31	0	129.38	34,147,427
Sep-04	33,866,709	53	25	0	30	0	129.65	32,911,070
Oct-04	33,459,472	234	0	0	31	0	129.92	33,900,866
Nov-04	34,291,998	400	0	0	30	0	130.19	34,262,385
Dec-04	36,127,448	656	0	0	31	0	130.45	36,873,479
Jan-05	38,086,669	776	0	0	31	0	130.74	37,734,150
Feb-05	33,948,283	651	0	0	28	0	131.03	34,473,223
Mar-05	36,573,955	645	0	1	31	0	131.33	35,738,140
Apr-05	32,869,336	310	0	1	30	0	131.62	32,662,271
May-05	32,855,889	199	0	1	31	0	131.91	32,745,960
Jun-05	38,447,266	11	121	0	30	0	132.20	37,272,909
Jul-05	37,187,192	2	138	0	31	0	132.50	38,790,344
Aug-05	38,980,568	5	106	0	31	0	132.79	37,454,623
Sep-05	36,068,033	31	35	0	30	0	133.09	33,657,067
Oct-05	35,298,516	228	9	0	31	0	133.38	34,706,597
Nov-05	36,208,987	393	0	0	30	0	133.68	34,672,617
Dec-05	37,375,907	702	0	0	31	0	133.98	37,653,143
Jan-06	37,380,610	555	0	0	31	12,595	134.25	36,546,710
Feb-06	34,858,034	609	0	0	28	25,190	134.53	34,388,789
Mar-06	36,853,489	546	0	1	31	37,785	134.81	35,127,140
Apr-06	32,012,005	286	0	1	30	50,380	135.08	32,437,414
May-06	33,397,046	152	23	1	31	62,975	135.36	33,260,966
Jun-06	35,393,613	27	44	0	30	75,570	135.64	33,630,299
Jul-06	38,211,550	3	134	0	31	88,165	135.92	38,184,196
Aug-06	37,549,917	5	68	0	31	100,760	136.20	35,178,032
Sep-06	32,409,216	99	5	0	30	113,355	136.48	32,087,829
Oct-06	33,859,862	308	1	0	31	125,950	136.76	34,055,136
Nov-06	34,256,645	383	0	0	30	138,545	137.04	33,639,809
Dec-06	35,197,842	512	0	0	31	151,140	137.33	35,245,562
Jan-07	37,602,510	656	0	0	31	153,020	137.59	36,248,192
Feb-07	36,181,471	759	0	0	28	154,900	137.85	34,530,587
Mar-07	36,692,690	527	0	1	31	156,780	138.11	34,220,575
Apr-07	32,150,377	371	0	1	30	158,660	138.37	32,350,528
May-07	31,697,554	132	23	1	31	160,540	138.63	32,550,436
Jun-07	34,232,795	23	70	0	30	162,420	138.90	34,302,546
Jul-07	33,640,750	11	72	0	31	164,300	139.16	35,112,491
Aug-07	35,812,952	12	89	0	31	166,180	139.42	35,911,724
Sep-07	31,962,853	61	35	0	30	168,060	139.69	33,034,939
Oct-07	32,623,250	150	22	0	31	169,940	139.95	33,871,703
Nov-07	33,638,403	469	0	0	30	171,820	140.22	34,303,432
Dec-07	34,321,596	657	0	0	31	173,700	140.48	36,427,065

	<u>Purchased</u>	<u>Heating</u>	<u>Cooling</u>	<u>Spring Fall</u>	<u>Number of</u>	<u>OPA CDM Activity</u>	<u>Ontario Real</u>	<u>Predicted Purchases</u>
		<u>Degree Days</u>	<u>Degree Days</u>	<u>Flag</u>	<u>Days in</u>		<u>GDP Monthly %</u>	
Jan-08	35,970,167	639	0	0	31	179,167	140.43	36,240,044
Feb-08	34,302,885	693	0	0	29	184,634	140.37	34,916,930
Mar-08	34,743,679	627	0	1	31	190,101	140.31	34,859,072
Apr-08	31,419,322	265	0	1	30	195,568	140.25	31,491,970
May-08	32,204,384	209	2	1	31	201,035	140.19	31,950,059
Jun-08	34,380,455	24	66	0	30	206,501	140.13	33,852,328
Jul-08	35,999,969	4	97	0	31	211,968	140.07	35,832,741
Aug-08	35,356,400	12	53	0	31	217,435	140.02	33,868,932
Sep-08	32,807,025	57	21	0	30	222,902	139.96	31,874,617
Oct-08	32,191,845	287	0	0	31	228,369	139.90	33,249,769
Nov-08	32,580,912	468	0	0	30	233,836	139.84	33,620,168
Dec-08	35,310,143	671	0	0	31	239,303	139.78	35,763,782
Jan-09	34,949,268	850	0	0	31	267,113	139.38	36,655,608
Feb-09	30,659,935	613	0	0	28	294,923	138.98	32,250,639
Mar-09	32,101,565	533	1	1	31	322,734	138.58	32,681,583
Apr-09	28,900,029	307	3	1	30	350,544	138.18	30,075,637
May-09	27,144,412	157	3	1	31	378,354	137.78	29,518,231
Jun-09	28,729,299	50	36	0	30	406,165	137.38	30,255,306
Jul-09	28,970,065	20	29	0	31	433,975	136.99	30,258,817
Aug-09	32,151,362	18	72	0	31	461,785	136.59	31,808,523
Sep-09	29,194,423	71	16	0	30	489,596	136.20	28,522,920
Oct-09	29,570,905	301	0	0	31	517,406	135.81	29,872,243
Nov-09	29,683,922	357	0	0	30	545,216	135.42	29,105,761
Dec-09	36,644,308	637	0	0	31	573,027	135.03	31,514,021
Jan-10		736	0	0	31	570,355	135.33	32,259,168
Feb-10		671	0	0	28	567,684	135.63	29,435,105
Mar-10		567	0	1	31	565,012	135.93	30,065,998
Apr-10		319	1	1	30	562,341	136.23	27,637,965
May-10		170	9	1	31	559,670	136.54	27,855,082
Jun-10		34	57	0	30	556,998	136.84	29,502,081
Jul-10		7	88	0	31	554,327	137.14	31,574,083
Aug-10		13	74	0	31	551,656	137.45	31,081,616
Sep-10		64	22	0	30	548,984	137.75	28,333,694
Oct-10		257	4	0	31	546,313	138.06	29,770,933
Nov-10		408	0	0	30	543,642	138.37	29,862,012
Dec-10		632	0	0	31	540,970	138.67	32,277,953
Jan-11		736	0	0	31	564,023	139.04	32,809,658
Feb-11		671	0	0	28	587,077	139.40	29,732,326
Mar-11		567	0	1	31	610,130	139.77	30,109,991
Apr-11		319	1	1	30	633,183	140.14	27,428,766
May-11		170	9	1	31	656,236	140.51	27,392,731
Jun-11		34	57	0	30	679,290	140.88	28,786,617
Jul-11		7	88	0	31	702,343	141.25	30,605,543
Aug-11		13	74	0	31	725,396	141.62	29,860,040
Sep-11		64	22	0	30	748,449	141.99	26,859,121
Oct-11		257	4	0	31	771,503	142.36	28,043,403
Nov-11		408	0	0	30	794,556	142.74	27,881,563
Dec-11		632	0	0	31	817,609	143.11	30,044,625

QUESTION TC #5

Reference: VECC #5

Energy Probe #14 a)

a) Please reconcile the difference in the historic loss factors as reported in these two responses.

Response:

Please refer to WHSI's response to Energy Probe TCQ # 11.

QUESTION TC #6

Reference: VECC #14

a) The response does not address the question posed. If the current fixed portion for the GS 50-499 class is 56.5% and the fixed portion for the GS > 1000 is 10.8%, then the overall current fixed proportion for the two classes overall must be a value between these two. What is the current fixed proportion for the two classes combined? If the value is not 49.2%, please provide the supporting calculations.

Response:

The following table outlines that the current fixed proportion for the two classes combined is 47.8% and the resulting 2011 monthly charge for each class on a combined and individual basis.

Customer Class	2011 Total Base Revenue	Current Fixed Charge Split	Fixed Base Revenue	2011 Annualized Customers	2011 Proposed Fixed Distribution Charge
GS 50 kW - 999 kW	\$1,478,505	56.5%	\$835,355	2,316	\$360.69
GS>1000 kW	\$347,277	10.8%	\$37,365	84	\$444.82
Total	\$1,825,782	47.8%	\$872,720	2,400	\$363.63

b) Based on the response to part (a), what would be the 2011 monthly charge for each class?

Response:

Please refer to 6a above.

QUESTION TC #7

Reference: VECC #31 a)

Preamble: The Table showing the kW and kWh as filed for Lighten Your electricity Bill 2005 does not reconcile with Attachments A (and B) to the Burman Independent Review Report

Total kW and kWh from programs under Lighten Your Electricity Bill

2005: Program Name	Total kW (As Filed)	Total kWh (As Filed)	Burman Report Attachment A
CFLs	3.2616	140,901.12	140,901
SLEDs 5W	0	14,0	14,079
SLEDs – Mini lights	0	1,782.5496	1783
Programmable Thermostat - Space Heating	0	118,828.8	118,823
Programmable Thermostat - Space Cooling	22.8312	20,865.6	20,866
Timer - Outdoor Light	0	2,663.28	2,663
Timer - Indoor Light	0.2016	6,307.2	6,304
Ceiling Fan	0.2916	8,728.56	8,729
TOTAL	26.586	314,156.1096	(235,611) 314,148

a) Confirm an addition error is responsible for the change and

Response:

The changes in the numbers resulted from rounding issues that occurred with Burman Energy's TRC Calculator.

Woodstock Hydro is proposing to use the revised LRAM as calculated using the OEB M&A for programs starting from 2006-2008 and OPA M&A Tables for persistent savings through to 2009.

- b) Confirm the revised total (net) of 4X 78,537 kwh –total 314,156 kwh was used to calculate the revised third tranche LRAM shown in VECC IRR #32

Response:

The revised total (net) of 447,181 kWh was used to calculate the revised third tranche LRAM shown in VECC IRR#32, and based on information available at the time.

- c) Provide a revised Attachment B for the LYEB program (SEE BELOW for further revisions).

Response:

A revised Attachment B for the LYEB program is included in TCQ Appendix A.

QUESTION TC #8

Reference: VECC #31 a)

Preamble: WHSI and Burman have used the following assumptions for SLED 5w

SLEDs - 5W: As Filed 2005 and 2006

# of Units:	65
Unit kWh Savings:	57 kWh
Summer kW savings:	0.0 kW
Operating Hours:	155
Lifetime Savings per unit kWh:	1,710 kWh
Free Ridership :	5%

a) Confirm these are C7 25 light strings. The OPA Prescriptive Measures and assumptions List 2010 Pages 141-42 shows a net savings value of 13.5 kWh and a lifetime of 5 years.

Response:

Confirmed, these are C7 25 Light Strings. See revised calculations below.

b) Recalculate the total kwh savings for this measure over the period 2006-2009 based on the OPA M&A value.

Response:

	<u>2005</u>
# of Units:	65
Unit kWh Savings:	13.5 kWh
Summer kW savings:	0.0 kW
Operating Hours:	155
Free Ridership :	5%

kW and kWh Calculations:

kW 2005: 65 units * 0 kW = 0 kW

kWh 2005: 65 units * 13.5 kWh = 877.5 kWh - 5% = 833.625 kWh

	2006		2007		2008		2009		Total
Total kWh Savings	833.625	+	833.625	+	833.625	+	833.625	=	3334.5
Total kW Savings	0	+	0	+	0	+	0	=	0

c) If these are individual Screw in 5-6w LEDs then recalculate the savings using the average M&A List (pages 134-35) annual savings of 8.87 kWh/light.

Response:

See WHSI's response to 7b) above.

QUESTION TC #9

Reference: VECC #31a

Preamble: WHSI and Burman have used the following assumptions for SLED Mini lights

SLEDs - Mini Lights: As Filed 2005

of Units: 65
 Unit kWh Savings: 7.2168 kWh
 Summer kW savings: 0 kW
 Operating Hours: 155
 Lifetime Savings per unit kWh: 216.504 kWh
 Free Ridership : 5%

a) Confirm these are Mini SLED light strings. The OPA Prescriptive Measures and assumptions List 2010 (Pages 144-45) shows a net savings value of 4.83 kWh and a lifetime of 5 years.

Response:

Confirmed. These are Mini SLED light strings.

b) Recalculate the total kWh savings for this measure over the period 2006-2009 based on the OPA M&A value

Response:

	<u>2005</u>
# of Units:	65
Unit kWh Savings:	4.83 kWh
Summer kW savings:	0 kW
Operating Hours:	155
Free Ridership :	5%

kW 2005: 65 units * 0 kW = 0 kW

kWh 2005: 65 units * 4.83 kWh = 313.95 kWh – 5% = 298.2525 kWh

	2006		2007		2008		2009		Total
Total kWh Savings	298.2525	+	298.2525	+	298.2525	+	298.2525	=	1193.01
Total kW Savings	0	+	0	+	0	+	0	=	0

QUESTION TC #10

Reference: VECC #31 a)

- a) Provide the sources of assumptions for the programmable thermostats (heating and cooling). In particular list the base standard technology(ies) assumed.

Response:

For programs started in 2006-2008:

Space Cooling:

OEB MA& Lists: *cdm_assumptionsmeasureslist_141005.xls*

Line item 55

Space Heating:

OEB MA& Lists: *cdm_assumptionsmeasureslist_141005.xls*

Line item 556

For persistent savings through to 2009:

Space Cooling & Heating Source:

2009 Mass Market Measures and Assumptions V1.02 April 2009

PROGRAMMABLE THERMOSTAT (Space Cooling and Forced-Air Electric Heating) –

page 74

b) Point to the comparable page numbers in the 2010 OPA M&A Lists and the average values listed there.

Response:

Space Cooling:

2010 Prescriptive Measures and Assumptions - Release 1 - January 2010

(PEAKSAVER®) RESIDENTIAL LOAD CONTROL DEVICE

Installing a Thermostat – page 318

17.3 kWh

Space Heating:

2010 Prescriptive Measures and Assumptions - Release 1 - January 2010

PROGRAMMABLE THERMOSTAT Electric Forced-Air Heating – page 325

2,151 kWh

c) Adjust the kwh savings and LRAM as necessary to align with the OPA M&A List.

Response:

Space Cooling:

	<u>2005</u>
# of Units:	42
Unit kWh Savings:	17.3 kWh
Operating Hours:	40
Free Ridership :	10%

kWh Calculations:

kWh 2005: 42 units * 17.3 kWh = 726.6 kWh – 10% = 653.94 kWh

	2006		2007		2008		2009		Total
Total kWh Savings	653.94	+	653.94	+	653.94	+	653.94	=	2615.76

Space Heating:

	<u>2005</u>
# of Units:	16
Unit kWh Savings:	2,151 kWh
Operating Hours:	40
Free Ridership :	10%

kWh Calculations:

kWh 2005: 16 units * 2,151 kWh = 34,416 kWh – 10% = 30,974.4 kWh

	2006		2007		2008		2009		Total
Total kWh Savings	653.94	+	653.94	+	653.94	+	653.94	=	2615.76

QUESTION TC #11

Reference: VECC #32

- a) For all third tranche programs provide a revised copy of Burman Report Attachments A and B and C showing as filed revised and final savings and LRAM claim.

Response:

Please refer to TCQ Appendix A.

- b) Provide a version of the revised LRAM Table (VECC #32) that breaks down the third tranche Claim into Residential and Other lost revenue.

Response:

Please refer to TCQ Appendix A,

- c) Provide a version of Appendix D to VECC IRRS that shows the revised Third Tranche claim (see below for OPA programs).

Response:

	LRAM \$	SSM \$	TOTAL \$
<u>Third Tranche</u>			
RESIDENTIAL	\$32,320.18	-\$4,696.00	\$27,624.17
GENERAL SERVICE < 50 kW	\$33,573.31	\$2,767.22	\$36,340.53
UNMETERED SCATTERED LOAD	\$25,981.92	\$3,313.60	\$29,295.53
	\$91,875.41	\$1,384.82	\$93,260.22

QUESTION TC #12

Reference: VECC #33 and Appendix D to VECC IRRs

- a) Explain why the as filed Summer Savings and Summer Sweepstakes kwh savings and LRAM amounts (as shown Appendix D) contained apparent gross errors. Was the source of these errors WHSI/Burman or OPA? Clarify.

Response:

All savings for OPA Programs were provided by the OPA –
“2006-2009 Final OPA CDM Results-Update.Woodstock Hydro Services Inc..xls”

Excerpt from OPA Excel sheet:

Net Energy Savings (MWh)

#	Initiative Name	Program Name	Program Year	Results Status	2006	2007	2008	2009
10	Summer Savings	Consumer	2007	Final	0	502	85	32
24	Summer Sweepstakes	Consumer	2008	Final	0	0	202	73

Gross Energy Savings (MWh)

#	Initiative Name	Program Name	Program Year	Results Status	2006	2007	2008	2009
10	Summer Savings	Consumer	2007	Final	0	4,183	705	267
24	Summer Sweepstakes	Consumer	2008	Final	0.0000	0.0000	0.0658	0.0378

- b) Provide a copy of the Letter from OPA confirming the final OPA results.

Response:

From: James Yue [<mailto:James.Yue@powerauthority.on.ca>]
Sent: Monday, January 24, 2011 1:43 PM
To: Jay Heaman
Cc: Sheri Johnson; Raegan Bond
Subject: 2006-2009 Final OPA CDM Results Update - Woodstock Hydro Services Inc.



January 24, 2011

Re: Estimated allocation of 2006-2009 provincial conservation results to Local Distribution Company service territories - update to December 2010 report

Dear Jay:

The Ontario Power Authority (OPA) is providing the enclosed report as an update to the Conservation and Demand Management (CDM) Program Results Data report which was distributed to LDCs on Wednesday December 1, 2010.

A correction has been made to the 2009 peaksaver initiative results in order to align savings with that which has been provided to the Environmental Commissioner of Ontario. This correction amounts to a very small reduction in the province wide results from 2009 programs – 1.0% and 0.04% for demand and energy savings respectively.

We apologize for any inconvenience. If you have any questions, please do not hesitate to contact us.

With kind regards,

Raegan Bond
Manager, Conservation Portfolio

Sent on behalf by

James Yue

Analyst – Portfolio Performance
Conservation Portfolio

Ontario Power Authority

120 Adelaide Street West
Suite 1600

Toronto ON M5H 1T1

Tel: 416.969.6217

Fax: 416.967.1947

Email: james.yue@powerauthority.on.ca

Web: www.powerauthority.on.ca

c) Provide an extract of the OPA preliminary and final residential results for Woodstock.

Response:

**APPENDIX C - 1
 PRELIMINARY OPA RESIDENTIAL RESULTS – MW**

#	Initiative Name	Program	Program Year	Results Status	Net Summer Peak Demand Savings (MW)				Gross Summer Peak Demand Savings (MW)			
					2006	2007	2008	2009	2006	2007	2008	2009
1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	0.0033	0.0033	0.0033	0.0033	0.0037	0.0037	0.0037	0.0037
2	Cool & Hot Savings Rebate	Consumer	2006	Final	# 0.0333	0.0333	0.0333	0.0333	0.0405	0.0405	0.0405	0.0405
3	Every Kilowatt Counts	Consumer	2006	Final	# 0.0110	0.0110	0.0110	0.0110	0.0122	0.0122	0.0122	0.0122
6	Great Refrigerator Roundup	Consumer	2007	Final	# 0.0000	0.0074	0.0074	0.0074	0.0000	0.0179	0.0179	0.0179
7	Cool & Hot Savings Rebate	Consumer	2007	Final	# 0.0000	0.0370	0.0370	0.0370	0.0000	0.0777	0.0777	0.0777
8	Every Kilowatt Counts	Consumer	2007	Final	# 0.0000	0.0129	0.0117	0.0117	0.0000	0.0186	0.0164	0.0164
9	peaksaver®	Consumer	2007	Final	# 0.0000	0.0459	0.0459	0.0459	0.0000	0.0510	0.0510	0.0510
10	Summer Savings	Consumer	2007	Final	# 0.0000	0.2810	0.0838	0.0404	0.0000	2.3418	0.6984	0.3363
11	Aboriginal	Consumer	2007	Final	# 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	Affordable Housing Pilot	Consumer	2007	Final	# 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	Social Housing Pilot	Consumer	2007	Final	# 0.0000	0.0036	0.0036	0.0036	0.0000	0.0036	0.0036	0.0036
14	Energy Efficiency Assistance for Houses Pilot	Consumer	2007	Final	# 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	Great Refrigerator Roundup	Consumer	2008	Final	# 0.0000	0.0000	0.0138	0.0138	0.0000	0.0000	0.0260	0.0260
21	Cool Savings Rebate	Consumer	2008	Final	# 0.0000	0.0000	0.0403	0.0403	0.0000	0.0000	0.0700	0.0700
22	Every Kilowatt Counts Power Savings Event	Consumer	2008	Final	# 0.0000	0.0000	0.0176	0.0168	0.0000	0.0000	0.0422	0.0399
23	peaksaver®	Consumer	2008	Final	# 0.0000	0.0000	0.1152	0.1152	0.0000	0.0000	0.1280	0.1280
24	Summer Sweepstakes	Consumer	2008	Final	# 0.0000	0.0000	0.0511	0.0293	0.0000	0.0000	0.0658	0.0378
35	Great Refrigerator Roundup	Consumer	2009	Preliminary	# 0.0000	0.0000	0.0000	0.0119	0.0000	0.0000	0.0000	0.0250
36	Cool Savings Rebate	Consumer	2009	Preliminary	# 0.0000	0.0000	0.0000	0.0648	0.0000	0.0000	0.0000	0.1122
37	Every Kilowatt Counts Power Savings Event	Consumer	2009	Preliminary	# 0.0000	0.0000	0.0000	0.0070	0.0000	0.0000	0.0000	0.0143
38	peaksaver®	Consumer	2009	Preliminary	# 0.0000	0.0000	0.0000	0.1565	0.0000	0.0000	0.0000	0.1739

**APPENDIX C - 1
 PRELIMINARY OPA RESIDENTIAL RESULTS – MWh**

#	Initiative Name	Program	Program Year	Results Status	Net Energy Savings (MWh)				Gross Energy Savings (MWh)			
					2006	2007	2008	2009	2006	2007	2008	2009
1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	15	15	15	15	16	16	16	16
2	Cool & Hot Savings Rebate	Consumer	2006	Final	36	36	36	36	45	45	45	45
3	Every Kilowatt Counts	Consumer	2006	Final	932	932	932	932	1,035	1,035	1,035	1,035
6	Great Refrigerator Roundup	Consumer	2007	Final	0	58	58	58	0	143	143	143
7	Cool & Hot Savings Rebate	Consumer	2007	Final	0	55	55	55	0	109	109	109
8	Every Kilowatt Counts	Consumer	2007	Final	0	332	328	328	0	453	446	446
9	peaksaver®	Consumer	2007	Final	0	0	0	0	0	0	0	0
10	Summer Savings	Consumer	2007	Final	0	1	0	0	0	4	1	0
11	Aboriginal	Consumer	2007	Final	0	0	0	0	0	0	0	0
12	Affordable Housing Pilot	Consumer	2007	Final	0	0	0	0	0	0	0	0
13	Social Housing Pilot	Consumer	2007	Final	0	30	30	30	0	30	30	30
14	Energy Efficiency Assistance for Houses Pilot	Consumer	2007	Final	0	0	0	0	0	0	0	0
20	Great Refrigerator Roundup	Consumer	2008	Final	0	0	127	127	0	0	234	234
21	Cool Savings Rebate	Consumer	2008	Final	0	0	64	64	0	0	111	111
22	Every Kilowatt Counts Power Savings Event	Consumer	2008	Final	0	0	323	322	0	0	801	797
23	peaksaver®	Consumer	2008	Final	0	0	2	2	0	0	3	3
24	Summer Sweepstakes	Consumer	2008	Final	0	0	0	0	0	0	260	94
35	Great Refrigerator Roundup	Consumer	2009	Preliminary	0	0	0	87	0	0	0	180
36	Cool Savings Rebate	Consumer	2009	Preliminary	0	0	0	100	0	0	0	172
37	Every Kilowatt Counts Power Savings Event	Consumer	2009	Preliminary	0	0	0	86	0	0	0	132
38	peaksaver®	Consumer	2009	Preliminary	0	0	0	3	0	0	0	3

APPENDIX C - 2 FINAL OPA RESIDENTIAL RESULTS – MW

#	Initiative Name	Program	Program Year	Results Status	Net Summer Peak Demand Savings (MW)				Gross Summer Peak Demand Savings (MW)			
					2006	2007	2008	2009	2006	2007	2008	2009
1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	0.0033	0.0033	0.0033	0.0033	0.0037	0.0037	0.0037	0.0037
2	Cool & Hot Savings Rebate	Consumer	2006	Final	0.0333	0.0333	0.0333	0.0333	0.0405	0.0405	0.0405	0.0405
3	Every Kilowatt Counts	Consumer	2006	Final	0.0110	0.0110	0.0110	0.0110	0.0122	0.0122	0.0122	0.0122
6	Great Refrigerator Roundup	Consumer	2007	Final	0.0000	0.0074	0.0074	0.0074	0.0000	0.0179	0.0179	0.0179
7	Cool & Hot Savings Rebate	Consumer	2007	Final	0.0000	0.0370	0.0370	0.0370	0.0000	0.0777	0.0777	0.0777
8	Every Kilowatt Counts	Consumer	2007	Final	0.0000	0.0129	0.0117	0.0117	0.0000	0.0186	0.0164	0.0164
9	peaksaver®	Consumer	2007	Final	0.0000	0.0459	0.0459	0.0459	0.0000	0.0510	0.0510	0.0510
10	Summer Savings	Consumer	2007	Final	0.0000	0.2810	0.0838	0.0404	0.0000	2.3418	0.6984	0.3363
11	Aboriginal	Consumer	2007	Final	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	Affordable Housing Pilot	Consumer	2007	Final	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	Social Housing Pilot	Consumer	2007	Final	0.0000	0.0036	0.0036	0.0036	0.0000	0.0036	0.0036	0.0036
20	Great Refrigerator Roundup	Consumer	2008	Final	0.0000	0.0000	0.0138	0.0138	0.0000	0.0000	0.0260	0.0260
21	Cool Savings Rebate	Consumer	2008	Final	0.0000	0.0000	0.0403	0.0403	0.0000	0.0000	0.0700	0.0700
22	Every Kilowatt Counts Power Savings Event	Consumer	2008	Final	0.0000	0.0000	0.0176	0.0168	0.0000	0.0000	0.0422	0.0399
23	peaksaver®	Consumer	2008	Final	0.0000	0.0000	0.1152	0.1152	0.0000	0.0000	0.1280	0.1280
24	Summer Sweepstakes	Consumer	2008	Final	0.0000	0.0000	0.0511	0.0293	0.0000	0.0000	0.0658	0.0378
35	Great Refrigerator Roundup	Consumer	2009	Final	0.0000	0.0000	0.0000	0.0155	0.0000	0.0000	0.0000	0.0301
36	Cool Savings Rebate	Consumer	2009	Final	0.0000	0.0000	0.0000	0.0449	0.0000	0.0000	0.0000	0.1028
37	Every Kilowatt Counts Power Savings Event	Consumer	2009	Final	0.0000	0.0000	0.0000	0.0120	0.0000	0.0000	0.0000	0.0328
38	peaksaver®	Consumer	2009	Final	0.0000	0.0000	0.0000	0.0952	0.0000	0.0000	0.0000	0.1057

APPENDIX C - 2
FINAL OPA RESIDENTIAL RESULTS – MWh

#	Initiative Name	Program	Program Year	Results Status	Net Energy Savings (MWh)				Gross Energy Savings (MWh)			
					2006	2007	2008	2009	2006	2007	2008	2009
1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	15	15	15	15	16	16	16	16
2	Cool & Hot Savings Rebate	Consumer	2006	Final	36	36	36	36	45	45	45	45
3	Every Kilowatt Counts	Consumer	2006	Final	932	932	932	932	1,035	1,035	1,035	1,035
6	Great Refrigerator Roundup	Consumer	2007	Final	0	58	58	58	0	143	143	143
7	Cool & Hot Savings Rebate	Consumer	2007	Final	0	55	55	55	0	109	109	109
8	Every Kilowatt Counts	Consumer	2007	Final	0	332	328	328	0	453	446	446
9	peaksaver®	Consumer	2007	Final	0	0	0	0	0	0	0	0
10	Summer Savings	Consumer	2007	Final	0	502	85	32	0	4,183	705	267
11	Aboriginal	Consumer	2007	Final	0	0	0	0	0	0	0	0
12	Affordable Housing Pilot	Consumer	2007	Final	0	0	0	0	0	0	0	0
13	Social Housing Pilot	Consumer	2007	Final	0	30	30	30	0	30	30	30
14	Energy Efficiency Assistance for Houses Pilot	Consumer	2007	Final	0	0	0	0	0	0	0	0
20	Great Refrigerator Roundup	Consumer	2008	Final	0	0	127	127	0	0	234	234
21	Cool Savings Rebate	Consumer	2008	Final	0	0	64	64	0	0	111	111
22	Every Kilowatt Counts Power Savings Event	Consumer	2008	Final	0	0	323	322	0	0	801	797
23	peaksaver®	Consumer	2008	Final	0	0	2	2	0	0	3	3
24	Summer Sweepstakes	Consumer	2008	Final	0	0	202	73	0	0	260	94
35	Great Refrigerator Roundup	Consumer	2009	Final	0	0	0	102	0	0	0	192
36	Cool Savings Rebate	Consumer	2009	Final	0	0	0	68	0	0	0	160
37	Every Kilowatt Counts Power Savings Event	Consumer	2009	Final	0	0	0	119	0	0	0	323
38	peaksaver®	Consumer	2009	Final	0	0	0	0	0	0	0	0

QUESTION TC #13

Reference: VECC #22 b) and c)

- a) Please explain how WHSI came in under budget in both 2009 and 2010 on its Pole/Duct Improvement program, e.g., due to fewer replacements than planned, costs per pole being lower than estimated, etc.

Response:

2009 Budget \$17,594 2009 Actual \$ 12,631 Variance: \$4,963
2010 Budget \$25,064 2010 Actual \$20, 918 Variance: \$4,146

Our annual budget amount is determined by the anticipated replacement activity. Replacement of this safety equipment is based on inspection results and customer reports. Pole/Duct replacements in 2009 and 2010 were not as extensive as we had anticipated, which resulted in lower than anticipated costs.

QUESTION TC #14

Reference: VECC #23 a) and Exhibit 2, Tab 2, Schedule 3, page 51

Preamble: The pre-filed evidence states, with respect to the \$450K purchase of a 2011 double bucket truck with 85 foot boom, *"This is a replacement of an existing truck which will provide additional functionality and increased efficiency. No incremental additions to the vehicle fleet will result from this purchase."*

- a) The truck to be replaced appears to have cost \$178,962. Please explain why replacing this truck will cost over two and a half times as much in 2011 as the existing vehicle cost when it was acquired by WHSI.

Response:

In addition to the difference in features between the trucks, the general price of goods and services in 2011 is higher than it was 13 years ago, when the 1997 International truck was first purchased. These market and inflationary increases would impact the price differential for these two vehicles.

The 2011 truck will have additional material handling capabilities that the 1997 International does not have, which increases the size of the boom structure, outriggers, and hydraulics, and ultimately, the cost. For example, the 1997 truck has a boom height of 57 feet, and the 2011 truck will have a boom height of 83 feet. As we convert our distribution system from 4 KV to 27 KV and in response to increased standards through Regulation 22-04, our pole asset heights are increasing. The additional features available in a new truck will enable WHSI to safely adhere to these standards. Recent installations include poles with heights of 75 feet or more, and we expect this trend to continue. In comparison, when WHSI purchased the 1997 vehicle, very few poles were over 50 feet in height.

WHSI also confirmed through its vehicle provider that today, all vehicles with booms that are 55 feet and over are built to be material handlers.

- b) Please confirm that the vehicle to be replaced will be disposed of in 2011. If unable to so confirm, please explain the assertion that "*No incremental additions to the vehicle fleet will result from this purchase.*"

Response:

WHSI confirms that the vehicle to be replaced will be disposed of in 2011.

- c) Please provide the revenues that WHSI estimates it will receive on disposal on the 1997 International that is to be replaced.

Response:

As noted in WHSI's response to Energy Probe IR# 9a, WHSI estimates it will receive \$50,000 on disposal of the 1997 International truck.

- d) Please explain how WHSI treats the revenues received from the disposal of vehicles.

Response:

WHSI records the net proceeds on disposal of vehicles in account 4355, Gain on Disposition of Utility and Other Property.

QUESTION TC #15

Reference: VECC #25 a) and Exhibit 4, Tab 2, Schedule 4, page 6

a) Does WHSI intend to replace the Meter Supervisor who retired in 2010?

Response:

a) No. As noted in Exhibit 4, Tab 2, Schedule 3, page 27, the managerial duties of the Meter Manager have been redistributed amongst other existing management personnel.

b) For the six members of the Management group in 2011, please provide the average yearly base wage increases in percentages for 2011 over what they received as a group in 2010.

Response:

The average yearly base wage increase for 2011 for the remaining six managers is 4.70%.

QUESTION TC #16

Reference: VECC #25 b) and Exhibit 4, Tab 2, Schedule 4, page 6

- a) How long has WHSI had a 3% COLA and a wage progression schedule in its collective bargaining agreements?

Response:

A COLA and a wage progression schedule have been in WHSI's collective bargaining agreements for more than sixteen years. The COLA provision would only be invoked if the Ontario CPI were to grow above a specified CPI base. The 3% COLA provision is in effect from August 2, 2010 until July 31, 2011 as part of the three-year agreements that were negotiated in 2008. With respect to the current agreements, the COLA provision would only be invoked in 2011 if the Ontario CPI grows above 121.68 before the expiry of the contract in August 2011. In January 2011, the Ontario CPI was 117.8.

- b) WHSI has provided an explanation for the large percentage increase in 2011 of average yearly base wages for its union members. Please explain why the factors cited for 2011 did not result in similarly large increases in average yearly base wages for its union members in any previous year 2006-2010 inclusive.

Response

As described in more detail in Exhibit 4, Tab 2, Schedule 4, pages 12 through 18, WHSI underwent several staffing transitions in response to local growth demands and the evolving regulatory environment. Until such time that WHSI could more reasonably determine the staff complement necessary to meet these demands, the company retained a greater number of part-time, temporary contract employees between 2005 and 2009. This is illustrated in Table 4-10, "Number of Part-Time Employees".

In 2009, WHSI was better positioned to identify its permanent staffing requirements and reduced the number of temporary contract employees in 2010. The impact of hiring temporary workers at lower wage rates during this period helps to explain the lower percentage increases in average yearly base wages between 2006 and 2009, as compared to 2011.

Additionally, as WHSI's Apprentice Linepersons, and full time, permanent employees hired in 2009 and 2010 progress in their training and tenure, they will continue to move towards, or reach their full job rate in 2011, which will increase the 2011 average yearly base wage. Table 4-16 summarizes the increase in FTE's between 2009 and 2011.

ATTACHMENT A
CDM Load Impacts by Class and Program

Class Program	Year Implemented	NET 2006		GROSS 2006		NET 2007		GROSS 2007		NET 2008		GROSS 2008		NET 2009		GROSS 2009		NET		GROSS	
		kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	Total kWh	Total kW	Total kWh	Total kW
		Third Tranche																			
RESIDENTIAL																					
Partnership / Sponsorships	2006					5,661	0.00	5,959	0.00	5,661	0.00	5,959	0.00	17,111	0.00	18,012	18012.00	28,433	0.00	29,929	18012.00
SLEDs						5,661	0.00	5,959	0.00	5,661	0.00	5,959	0.00	17,111	0.00	18,012	18012.00	28,433	0.00	29,929	18012.00
Lighten Your Electricity Bill	2005	122,881	6.23	136,441	6.93	122,881	6.23	136,441	6.93	122,881	6.23	136,441	6.93	72,410	6.65	80,389	7.39	441,054	25.35	489,711	28.17
CFLs		85,127.76	0.00	94,586	0.0000	85,128	0.00	94,586	0.00	85,128	0.00	94,586	0.00	35,225	0.82	39,139	0.91	290,609	0.815400	322,898	0.91
SLEDs - 5W		1,164	0.00	1,226	0.00	1,164	0.00	1,226	0.00	1,164	0.00	1,226	0.00	834	0.00	878	0.00	4,326.85	0.00	4,555	0.00
SLEDs - Mini Lights		446	0.00	469	0.00	446	0.00	469	0.00	446	0.00	469	0.00	298	0.00	314	0.00	1,635.1647	0.00	1,721	0.00
Programmable Thermostat - Space Heating		21,115	0.00	23,461	0.00	21,115	0.00	23,461	0.00	21,115	0.00	23,461	0.00	30,974	0.00	34,416	0.00	94,320	0.00	104,800	0.00
Programmable Thermostat - Space Cooling		6,013	6.16	6,682	6.85	6,013	6.16	6,682	6.85	6,013	6.16	6,682	6.85	654	5.71	727	6.34	18,694	24.19	20,771	26.88
Timer - Outdoor Light		4,730	0.00	5,256	0.00	4,730	0.00	5,256	0.00	4,730	0.00	5,256	0.00	666	0.00	740	0.00	14,857.02	0.00	16,508	0.00
Timer - Indoor Light		2,102	0.00	2,336	0.00	2,102	0.00	2,336	0.00	2,102	0.00	2,336	0.00	1,576.080	0.05	1,751	0.06	7,883	0.0504	8,759	0.06
Ceiling Fan		2,182.140	0.07	2,425	0.08	2,182	0.07	2,425	0.08	2,182	0.07	2,425	0.08	2,182	0.07	2,425	0.08	8,728.560	0.29160	9,698	0.32
GENERAL SERVICE< 50 kW																					
Cool Shops	2006					453,000	82.05	560,884	102.56	453,000	82.05	560,884	102.56	438,872	82.46	546,776	103.02	1,083,294	246.55	1,668,543	308.14
15W CFL						361,098	73.33	451,373	91.66	361,098	73.33	451,373	91.66	361,098	73.33	451,373	91.66	67,441	219.98	1,354,118	274.97
26W Flood Light						27,190	0.00	28,621	0.00	27,190	0.00	28,621	0.00	13,062	0.41	14,513	0.46	15,876	0.41	71,754	0.46
2-T8 32W Lamps w/ Electronic Ballast						5,292	1.13	6,615	1.41	5,292	1.13	6,615	1.41	5,292	1.13	6,615	1.41	32,659	3.39	19,845	4.24
4-T8 32W Lamps w/ Electronic Ballast						10,886	2.33	13,608	2.91	10,886	2.33	13,608	2.91	10,886	2.33	13,608	2.91	145,602	6.98	40,824	8.73
3W LED Exit Signs						48,534	5.26	60,667	6.58	48,534	5.26	60,667	6.58	48,534	5.26	60,667	6.58	15,790	15.79	182,002	19.74
UNMETERED SCATTERED LOAD																					
Traffic (Signal) Efficiency	2006					367,080	5.29	367,080	5.29	367,080	5.29	367,080	5.29	256,956	5.03	367,080	7.19	991,116	15.61	1,101,240	17.77
OPA Programs																					
A Copy of the Program Measures by Year, Unit kWh Savings, Useful life, # of Units can be found on "OPA MEASURES" Tab																					
Residential																					
Every Kilowatt Counts	2006-2007	931,942	10.99	1,035,491	12.21	1,264,331	23.86	1,488,958	30.85	1,260,266	22.65	1,481,567	28.65	1,260,266.0416	22.65	1,481,566.87	28.65	4,716,805	80	5,487,582	100
Cool & Hot Savings Rebate	2006 - 2007	35,916	33.29	45,499	40.47	91,366	70.28	154,408	118.13	91,366	70.28	154,408	118.13	91,366	70.28	154,408	118.13	310,014	244	508,723	395
Cool Savings Rebate Program	2008-2009					0	0.00	0	0.00	63,617	40.30	110,746	69.96	131,813	85.21	270,357	172.72	195,430	126	381,103	243
Secondary Fridge Retirement Pilot	2006	14,549	3.30	16,166	3.66	14,549.355	3.30	16,166	3.66	14,549	3.30	16,166	3.66	14,549	3.30	16,166	3.66	58,197	13	64,664	15
Great Refrigerator Roundup	2007-2009					57,911	7.37	142,578	17.93	184,813	21.20	376,599	43.93	287,107	36.67	568,288	74.04	529,831	65	1,087,465	136
peaksaver®	2008-2009					0	45.93	0	51.03	2,304	161.15	2,560	179.05	2,481	256.31	2,757	284.79	4,786	463	5,317	515
Summer Savings	2007					501,952	281.01	4,182,932	2341.76	84,605	83.80	705,043	698.37	32,024	40.35	266,870	336.25	618,581	405	5,154,845	3,376
Social Housing – Pilot	2007					30,210	3.55	30,210	3.55412	30,210	3.55	30,210	3.55	30,210	3.55	30,210	3.55	90,630	11	90,630	11
Summer Sweepstakes	2008									201,924	51.09	260,258	65.84	72,865	29.29	93,915	37.76	274,789	80	354,173	104
Every Kilowatt Counts Power Savings Event	2008-2009									322,936	17.61	800,932	42.18	440,113	28.84	1,120,111	72.74	763,049	46	1,921,043	115
General Service<50kW																					
OPA Conservation Programs																					
High Performance New Construction	2008-2009									1,046	1	1,495	1.77	33,312	15.39	47,588	21.99	34,358	17	49,083	24
Power Savings Blitz	2008-2009									25,452	4	27,367	3.78	949,380	128.91	1,020,838	138.62	974,831	132	1,048,206	142
General Service>50kW to 4,999kW																					
OPA Conservation Programs																					
Demand Response 1	2006 -2009		1,021		1,021		1,107		1,107		1,603		1,603		555		555.27	0	4,285	0	4,285
Demand Response 2	2009														377		377.05	0	377	0	377
Demand Response 3	2008-2009										310		310		539		538.64	0	849	0	849
Electricity Retrofit Incentive Program	2007, 2009									227,729	45	392,637	77	1,756,759	201	2,338,651	282.95	1,984,488	246	2,731,288	360
Electricity Resources Demand Response	2006-2009		50		50		92		92		107		107		93		92.55	0	341	0	341

ATTACHMENT B

Foregone Revenue by Class and Program

Class Program	2006				2007				2008				2009				Total Revenue
	Load Unit	kWh or kW	Rate per Unit	Revenue	Load Unit	kWh or kW	Rate per Unit	Revenue	Load Unit	kWh or kW	Rate per Unit	Revenue	Load Unit	kWh or kW	Rate per Unit	Revenue	
Third Tranche																	
RESIDENTIAL																	
Partnership / Sponsorships					5,661	kWh	0.0194	\$435.51	5,661	kWh	0.0192	\$109.06	17,111	kWh	0.0192	\$328.54	\$873.11
Lighten Your Electricity Bill	122,881	kWh	0.192	\$18,235.61	122,881	kWh	0.0194	\$9,453.68	122,881	kWh	0.0192	\$2,367.52	72,410	kWh	0.0192	\$1,390.26	\$31,447.07
																	\$32,320.18
GENERAL SERVICE < 50																	
Cool Shops					453,000	kWh	0.0125	\$22,498.99	453,000	kWh	0.0124	\$5,632.30	438,872	kWh	0.0124	\$5,442.01	\$33,573.31
																	\$33,573.31
UNMETERED SCATTERED LOAD																	
Traffic (Signal) Efficiency					367,080	kWh	0.0125	\$18,231.64	367,080.00	kWh	0.0124	\$4,564.03	256,956.00	kWh	0.0124	\$3,186.25	\$25,981.92
																	\$25,981.92
OPA Programs																	
Residential																	
Every Kilowatt Counts	931,942	kWh	0.192	\$138,300.13	1,264,331	kWh	0.0194	\$97,269.21	1,260,266	kWh	0.0192	\$24,281.13	1,260,266	kWh	0.0192	\$24,197.11	\$284,047.57
Cool & Hot Savings Rebate	35,916	kWh	0.192	\$5,329.97	91,366	kWh	0.0194	\$7,029.09	91,366	kWh	0.0192	\$1,760.32	91,366	kWh	0.0192	\$1,754.23	\$15,873.60
Cool Savings Rebate Program	0	kWh	0.192	\$0.00	0	kWh	0.0194	\$0.00	63,617	kWh	0.0192	\$1,225.69	131,813	kWh	0.0192	\$2,530.80	\$3,756.49
Secondary Fridge Retirement Pilot	14,549	kWh	0.192	\$2,159.12	14,549	kWh	0.0194	\$1,119.33	14,549	kWh	0.0192	\$280.32	14,549	kWh	0.0192	\$279.35	\$3,838.12
Great Refrigerator Roundup					57,911	kWh	0.0194	\$4,455.27	184,813	kWh	0.0192	\$3,560.74	287,107	kWh	0.0192	\$5,512.45	\$13,528.46
peaksaver®					0	kWh	0.0194	\$0.00	2,304	kWh	0.0192	\$44.40	2,481	kWh	0.0192	\$47.64	\$92.04
Summer Savings					501,952	kWh	0.0194	\$38,616.83	84,605	kWh	0.0192	\$1,630.06	32,024	kWh	0.0192	\$614.87	\$40,861.76
Social Housing – Pilot					30,210	kWh	0.0194	\$2,324.16	30,210	kWh	0.0192	\$582.05	30,210	kWh	0.0192	\$580.03	\$3,486.23
Summer Sweepstakes					0	kWh	0.0194	\$0.00	201,924	kWh	0.0192	\$3,890.40	72,865	kWh	0.0192	\$1,399.01	\$5,289.41
Every Kilowatt Counts Power Savings Event					0	kWh	0.0194	\$0.00	322,936	kWh	0.0192	\$6,221.90	440,113	kWh	0.0192	\$8,450.17	\$14,672.07
																	\$385,445.75
GENERAL SERVICE Less Than 50kW																	
High Performance New Construction									1,046	kWh	0.0124	\$13.01	33,312	kWh	0.0124	\$413.07	\$426.08
Power Savings Blitz									25,452	kWh	0.0124	\$316.45	949,380	kWh	0.0124	\$11,772.31	\$12,088.76
General Service>50kW to 4,999kW																	
Demand Response 1	1,020.60	kW	1.8137	\$20,750.86	1,106.69	kW	1.8300	\$24,230.73	1,602.62	kW	1.8154	\$35,006.42	555.27	kW	1.8199	\$12,116.47	\$92,104.48
Demand Response 2													377.05	kW	1.8199	\$8,227.45	\$8,227.45
Demand Response 3									309.91	kW	1.8154	\$6,769.53	538.64	kW	1.8199	\$11,753.49	\$18,523.02
Electricity Retrofit Incentive Program									44.78	kW	1.8154	\$978.20	200.80	kW	1.8199	\$4,381.61	\$5,359.81
Electricity Resources Demand Response	49.95	kW	1.8137	\$1,015.67	92.06	kW	1.8300	\$2,015.73	106.50	kW	1.8154	\$2,326.33	92.55	kW	1.8199	\$2,019.53	\$7,377.25
																	\$131,592.01
																	\$621,428.00

ATTACHMENT C
SSM Amounts by Class and Program

Class Program	Total Costs \$	Total Benefits \$	Net Benefits \$ NPV	Benefits/C ost Ratio	SSM Amount \$
Third Tranche					
RESIDENTIAL					
Customer Survey	\$4,682.76	\$0.00	-\$4,682.76		-\$234.14
Conservation Website	\$24,419.34	\$0.00	-\$24,419.34		-\$1,220.97
Education and Promotion	\$88,056.13	\$0.00	-\$88,056.13		-\$4,402.81
Partnership / Sponsorships	\$23,772.59	\$6,162.65	-\$17,609.94	0.26	-\$880.50
SLEDs	\$4,517.73	\$6,162.65	\$1,644.92	1.36	\$82.25
Woodstock Hospital Foundation Raffle	\$1,085.57	\$0.00	-\$1,085.57		-\$54.28
Energy Innovation Award	\$2,232.00	\$0.00	-\$2,232.00		-\$111.60
Utility Program Cost (2007)	\$15,937.29	\$0.00	-\$15,937.29		-\$796.86
Lighten Your Electricity Bill	\$9,296.80	\$50,144.89	\$40,848.09	5.39	\$2,042.40
CFLs	\$1,630.80	\$20,277.78	\$18,646.98	12.43	\$932.35
SLEDs - 5W	\$123.50	\$1,163.06	\$1,039.56	9.42	\$51.98
SLEDs - Mini Lights	\$123.50	\$445.12	\$321.62	3.60	\$16.08
Programmable Thermostat - Space Heating	\$864.00	\$15,202.37	\$14,338.37	17.60	\$716.92
Programmable Thermostat - Space Cooling	\$2,268.00	\$7,679.49	\$5,411.49	3.39	\$270.57
Timer - Outdoor Light	\$324.00	\$3,722.58	\$3,398.58	11.49	\$169.93
Timer - Indoor Light	\$144.00	\$1,654.48	\$1,510.48	11.49	\$75.52
Utility Program Cost	\$2,798.00	\$0.00	-\$2,798.00		-\$139.90
Ceiling Fans	\$1,021.00	\$0.00	-\$1,021.00		-\$51.05
GENERAL SERVICE < 50 kW					
Cool Shops	\$72,833.01	\$128,177.39	\$55,344.38	1.76	\$2,767.22
15W CFL	\$18,775.74	\$59,326.55	\$40,550.81	3.16	\$2,027.54
26W Flood Light	\$8,294.34	\$6,970.93	-\$1,323.41	0.84	-\$66.17
2-T8 32W Lamps w/ Electronic Ballast	\$7,047.09	\$2,069.49	-\$4,977.60	0.29	-\$248.88
4-T8 32W Lamps w/ Electronic Ballast	\$8,938.50	\$4,257.24	-\$4,681.26	0.48	-\$234.06
3W LED Exit Signs	\$29,777.34	\$55,553.18	\$25,775.84	1.87	\$1,288.79
Renewable Energy Projects	\$46,008.98	\$0.00	-\$46,008.98		-\$2,300.45
UNMETERED SCATTERED LOAD					
Traffic (Signal) Efficiency	\$23,619.85	\$89,891.93	\$66,272.08	3.81	\$3,313.60
TOTALS	\$246,680.48	\$274,376.85	\$27,696.37		\$1,384.82

ATTACHMENT D
LRAM & SSM Totals

Rate Class

	LRAM \$	SSM \$	TOTAL \$
<u>Third Tranche</u>			
RESIDENTIAL	\$32,320.18	-\$4,696.00	\$27,624.17
GENERAL SERVICE < 50 kW	\$33,573.31	\$2,767.22	\$36,340.53
UNMETERED SCATTERED LOAD	\$25,981.92	\$3,313.60	\$29,295.53
<u>OPA Programs</u>			
RESIDENTIAL	\$385,445.75		\$385,445.75
GENERAL SERVICE <50KW	\$12,514.83		\$12,514.83
GENERAL SERVICE >50KW	\$131,592.01		\$131,592.01
	\$621,428.00	\$1,384.82	\$622,812.82

ATTACHMENT E
LRAM & SSM Input Assumptions

Class Program	Free Rider Rate			Number of Units		Table Applied			Discount Factor		Technology Life		
	LRAM	SSM	SSM	LRAM	SSM	LRAM	SSM	SSM	LRAM	SSM	LRAM	SSM	SSM
Third Tranche	2006-2008	2009				2006-2008	2009				2006-2008	2009	
RESIDENTIAL													
Partnership / Sponsorships													
SLEDs	5%	5%	5%	316		OEB	OPA	OEB	7.88%		30	30	30
Lighten Your Electricity Bill													
CFLs	10%	10%	10%	906		OEB	OPA	OEB	8.57%		4	8	4
SLEDs - 5W	5%	5%	5%	65		OEB	OPA	OEB	8.57%		30	30	30
SLEDs - Mini Lights	5%	5%	5%	65		OEB	OPA	OEB	8.57%		30	30	30
Programmable Thermostat - Space Heating	10%	10%	10%	16		OEB	OPA	OEB	8.57%		18	15	18
Programmable Thermostat - Space Cooling	10%	10%	10%	42		OEB	OPA	OEB	8.57%		18	15	18
Timer - Outdoor Light	10%	10%	10%	18		OEB	OPA	OEB	8.57%		20	10	20
Timer - Indoor Light	10%	10%	10%	8		OEB	OPA	OEB	8.57%		20	10	20
Ceiling Fan	10%	10%	10%	27		OPA	OPA	OPA	8.57%		10	10	10
GENERAL SERVICE < 50 kW													
Cool Shops													
15W CFL	10%	10%	10%	2,229		OEB	OPA	OEB	7.88%		2	2	2
26W Flood Light	5%	10%	5%	230		OEB	OPA	OEB	7.88%		5	5	5
2-T8 32W Lamps w/ Electronic Ballast	10%	10%	10%	15		OEB	OPA	OEB	7.88%		5	5	5
4-T8 32W Lamps w/ Electronic Ballast	10%	10%	10%	42		OEB	OPA	OEB	7.88%		5	5	5
3W LED Exit Signs	10%	10%	10%	228		OEB	OPA	OEB	7.88%		25	25	25
UNMETERED SCATTERED LOAD													
Traffic (Signal) Efficiency	30%	30%	30%			Direct Input			7.88%		7		

1Tables

OEB: OEB Total Resource Cost Guide, Section 5, Assumptions and Measures List September 8, 2005 - File: cdm_assumptionsmeasureslist_08092005.xls

OPA: 2009 Mass Market Measures and Assumptions, V1.02 April 2009, Ontario Power Authority - 16080_V1_02_2009_MA_List_-_MM_14Apr_2009.pdf

OPA Conservation & Demand Management Programs

Initiative Results at End-User Level

For: Woodstock Hydro Services Inc.

Gross Energy Savings (MWh)

Table with columns: Initiative Name, Program Year, Results Status, and years 2006-2050. Rows list various conservation programs like 'Secondary Refrigerator Retirement Pilot' and 'Cool & Hot Savings Rebate'.