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January 27, 2012

**VIA RESS and Overnight Courier**

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

Dear Ms. Walli:

**Re: Enersource Hydro Mississauga Inc. Application for Distribution  
Rates Effective May 1, 2012  
Board File No. EB-2011-0100  
Responses to Vulnerable Energy Consumers Coalition ("VECC")**

Please find enclosed responses to VECC's Interrogatories.

Two original versions of the additional evidence will be sent to the Ontario Energy Board in addition to filing via RESS.

If you have any questions please do not hesitate to contact me.

Yours truly,

*Original Signed By*

Gia M. DeJulio  
Director, Regulatory Affairs

c. Michael Buonaguro (VECC)  
Shelly Grice (VECC)  
All Other Intervenor of Record (EB-2011-0100)

Dan Pastoric, Executive Vice-President and Chief Operating Officer  
Norm Wolff, Executive Vice-President and Chief Financial Officer



**Enersource Hydro Mississauga Inc.  
Responses to VECC Interrogatories**

Lost Revenue Adjustment Mechanism (LRAM)

**VECC Question # 1**

**Reference:** Tab 3

Preamble: Enersource seeks approval to recover \$856,957 in lost revenue including \$16,660 in carrying charges pertaining to 2010 CDM programs in 2010 and prior years' lost volumes carried over to 2010.

- a) Please provide a summary of all past LRAM claims.
- b) Please confirm that the LRAM amounts Enersource is seeking to recover in this application are new amounts not included in past LRAM claims.
- c) When was Enersource's load forecast last approved by the Board? Please discuss how any CDM savings have been accounted for in Enersource's approved load forecast.

**Response:**

- a) Please see the response to Board Staff Interrogatory #7 (C)
- b) Please see the response to Board Staff Interrogatory #7 (D)
- c) Please see the response to Board Staff Interrogatory #7 (E)



**Enersource Hydro Mississauga Inc.  
Responses to VECC Interrogatories**

**VECC Question # 2**

**Reference:** Appendix E

- a) Please provide the following details by year for each OPA CDM Program at the measure level to add to the data shown in Appendix E: # units, unit and total kWh savings, lifetime, and free ridership rate. Reconcile to the load impacts and lost revenues in Appendix E.
- b) List and confirm OPA's input assumptions for Every Kilowatt Counts (EKC) 2005 and 2006 including the measure life, unit kWh savings and free ridership for Compact Fluorescent Lights (CFLs) and Seasonal Light Emitting Diodes (LED). Confirm some of these assumptions were changed in 2007 and again in 2009 and compare the values.
- a) Demonstrate that savings for EKC 2005 and 2006 Mass Market measures 13-15 W Energy Star CFLs have been removed from the LRAM claim in 2010.
- b) Adjust the LRAM claim as necessary to reflect the measure lives and unit savings for any/all measures that have expired in 2010.
- c) For Custom Projects, please provide the input assumptions used in this application compared to the input assumptions used in prior LRAM claims.

**Response:**

- a) Pursuant to the OEB Guidelines, Enersource is required to provide a third party evaluation of program results, and the OPA is considered sufficient for this purpose with respect to programs funded by the OPA. Hence, Enersource has relied upon the OPA's evaluation in order to establish CDM savings to substantiate the LRAM claim in Attachment E (not Appendix E).

The OPA provided final program results to Enersource on November 15, 2011, subsequent to the filing of the original application and evidence. These final program results ("2006 – 2010 Final OPA CDM Results") show the requested details by year for each OPA CDM Program at the measure level. These final results have

been provided as a live Excel spreadsheet at Attachment 1 to this response. The measure level assumptions can be found in the worksheet tab labelled "Measures – LDC" located in Attachment 1.

The table below is an excerpt from the worksheet tab labelled "Measures-LDC" in Attachment 1. The excerpt provides an indication of the detail provided by the OPA. Note that initiative-based program savings for MURB, Power Savings Blitz and ERI are aggregated and not reported at the measures level, and are then reconciled by the OPA into the final results which underpin Enersource's LRAM claim.

The LRAM claim is fully supported by the information provided in the OPA data in Attachment 1, which reconciles with the OPA initiative data filed originally as Attachments F and G.

As explained in response to Board Staff IR #7 (B), the OPA final report ("2006 – 2010 Final OPA CDM Results") received on November 15, 2011 was not materially different from the final summary OPA report, which was what Enersource relied upon to calculate the LRAM claim.



**Table 2a. – Detailed Measure Level OPA CDM Program Assumptions**

OPA Conservation & Demand Management Programs

Measure Results at End-User Level

For: Enersource Hydro Mississauga Inc.

#	Initiative Number	Initiative Name	Program	Year	Status	#	Measure Name	Unit Savings Assumptions								LDC Specific Results						
								Gross Summer Peak Demand Savings (kW)	Gross Annual Energy Savings (kWh)	Gross Lifetime Energy Savings (kWh)	Net Summer Peak Demand Savings (kW)	Net Annual Energy Savings (kWh)	Net Lifetime Energy Savings (kWh)	Aggregate Net-to-Gross Adjustment (%)	Effective Useful Life (EUL)	Activity Results (#)	Gross Summer Peak Demand Savings (kW)	Gross Annual Energy Savings (kWh)	Gross Lifetime Energy Savings (kWh)	Net Summer Peak Demand Savings (kW)	Net Annual Energy Savings (kWh)	Net Lifetime Energy Savings (kWh)
1	1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	1	Refrigerator Retirement	0.27	1200.00	7200.00	0.24	1080.00	6480.00	90.00	8.00	199.58	54.28	239477.24	1436863.47	48.85	215525.52	1263177.12
2	1	Secondary Refrigerator Retirement Pilot	Consumer	2006	Final	2	Freezer Retirement	0.20	900.00	5400.00	0.18	810.00	4860.00	90.00	8.00	8.83	1.78	7787.02	46892.14	1.88	6990.32	41941.82
3	2	Cool & Hot Savings Rebate	Consumer	2006	Final	1	Energy Star® Central Air Conditioner - Cool Savings	0.40	360.00	2160.00	0.38	351.00	4914.00	90.00	14.00	572.41	228.32	223240.60	3125368.41	205.49	200516.54	2812831.57
4	2	Cool & Hot Savings Rebate	Consumer	2006	Final	2	Programmable Thermostat - Cool Savings	0.18	178.62	3179.21	0.16	168.96	2861.29	90.00	16.00	458.07	78.96	77020.06	1388371.86	71.07	68318.59	1247734.67
5	2	Cool & Hot Savings Rebate	Consumer	2006	Final	3	Central Air Conditioner Tune-ups - Cool Savings	0.42	409.99	3279.91	0.38	368.99	2951.92	90.00	8.00	390.38	163.94	180050.90	128407.60	147.55	144045.87	1152395.92
6	2	Cool & Hot Savings Rebate	Consumer	2006	Final	4	Energy Star® Central Air Conditioner - Hot Savings	0.17	154.93	2788.71	0.10	88.62	1595.14	67.20	18.00	116.58	19.75	18062.29	325121.30	11.30	10331.63	185888.38
7	2	Cool & Hot Savings Rebate	Consumer	2006	Final	5	Efficient Furnace with ECM - Hot Savings	0.50	635.70	12550.44	0.29	494.49	1411.31	59.10	15.00	245.42	121.76	205341.03	2080115.51	71.90	121336.55	1820348.27
8	2	Cool & Hot Savings Rebate	Consumer	2006	Final	6	Programmable Thermostat - Hot Savings	0.63	53.80	864.00	0.01	14.72	220.79	27.46	15.00	228.83	6.26	13157.00	162688.51	1.72	3338.80	50882.84
9	3	Every Kilowatt Counts	Consumer	2006	Final	1	Energy Star® Compact Fluorescent Light Bulb - Spring Campaign	0.00	104.45	417.60	0.00	63.86	375.84	0.00	4.00	53222.83	0.00	8556482.93	27225951.73	0.00	5003818.54	20353281.58
10	3	Every Kilowatt Counts	Consumer	2006	Final	2	Electric Timers - Spring Campaign	0.00	183.00	3660.00	0.00	164.70	3294.00	0.00	20.00	1482.08	0.00	273050.69	5481011.79	0.00	245745.53	4814910.62
11	3	Every Kilowatt Counts	Consumer	2006	Final	3	Programmable Thermostats - Spring Campaign	0.05	216.00	3246.00	0.05	194.40	2916.00	0.00	15.00	848.04	32.45	140102.88	2102804.64	20.21	126173.68	1882905.18
12	3	Every Kilowatt Counts	Consumer	2006	Final	4	Energy Star® Ceiling Fans - Spring Campaign	0.01	141.00	2820.00	0.01	126.00	2520.00	0.00	20.00	483.74	0.81	69617.46	1382349.24	6.22	62655.72	1263114.32
13	3	Every Kilowatt Counts	Consumer	2006	Final	5	Energy Star® Compact Fluorescent Light Bulb - Autumn Campaign	0.00	104.45	417.60	0.00	93.96	375.84	0.00	4.00	78913.71	0.00	8238561.48	32854385.93	0.00	7414732.31	28656839.23
14	3	Every Kilowatt Counts	Consumer	2006	Final	6	Seasonal Light Emitting Diode Light String - Autumn Campaign	0.00	30.75	622.50	0.00	27.68	830.25	0.00	30.00	18864.49	0.00	844080.48	1752544.71	0.00	826672.44	15770173.24
15	3	Every Kilowatt Counts	Consumer	2006	Final	7	Programmable Thermostats - Autumn Campaign	0.12	522.09	9367.70	0.11	495.89	8451.03	0.00	18.00	1252.11	147.42	653717.96	1176923.21	132.68	588346.18	10269230.49
16	3	Every Kilowatt Counts	Consumer	2006	Final	8	Dimmers - Autumn Campaign	0.00	139.00	1390.00	0.00	125.10	1251.00	0.00	10.00	660.67	0.00	1376192.80	1376192.80	0.00	123857.32	1238573.52
17	3	Every Kilowatt Counts	Consumer	2006	Final	9	Indoor Motion Sensors - Autumn Campaign	0.00	208.00	4160.00	0.00	188.10	3762.00	0.00	20.00	355.26	0.00	14248.62	148468.33	0.00	88824.92	1338468.55
18	3	Every Kilowatt Counts	Consumer	2006	Final	10	Programmable Baseboard Thermostats - Autumn Campaign	0.00	1466.30	29326.60	0.00	1318.67	26374.00	0.00	18.00	74.58	0.00	108353.92	1986370.57	0.00	88418.53	1771535.52
19	4	Demand Response 1	Business, In	2006	Final	1	Voluntary Load Shedding Project	Custom	Custom	Custom	Custom	Custom	Custom	100.00	1.00	0.75	22688.26	0.00	0.00	22688.26	0.00	0.00
20	5	Loblaw & York Region Demand Response	Business, In	2006	Final	1	Holiday Contract	2000.00	0.00	0.00	2000.00	0.00	100.00	1.00	0.00	0.08	248.28	0.00	0.00	248.28	0.00	0.00
21	5	Loblaw & York Region Demand Response	Business, In	2006	Final	2	Low Contract	10000.00	0.00	0.00	10000.00	0.00	100.00	1.00	0.00	0.08	830.88	0.00	0.00	830.88	0.00	0.00
22	6	Great Refrigerator Roundup	Consumer	2007	Final	1	Bottom Freezer Fridge	0.12	1064.27	6376.40	0.08	777.68	2001.82	73.10	8.00	3.79	0.44	4026.55	38285.82	0.32	2945.52	28506.06
23	6	Great Refrigerator Roundup	Consumer	2007	Final	2	Chest Freezer	0.07	671.45	3721.71	0.03	275.54	1724.28	45.72	8.00	91.88	6.20	43318.00	346549.20	2.10	18833.87	154420.34
24	6	Great Refrigerator Roundup	Consumer	2007	Final	3	Side by Side Fridge-Freezer	0.10	899.92	5399.28	0.04	352.30	3170.71	38.15	9.00	81.39	3.03	28182.57	252643.14	1.19	11032.92	99286.32
25	6	Great Refrigerator Roundup	Consumer	2007	Final	4	Single Door Fridge	0.08	721.26	4491.31	0.03	282.38	2541.22	39.15	9.00	66.77	6.79	62588.11	353214.68	2.64	24501.23	220511.11
26	6	Great Refrigerator Roundup	Consumer	2007	Final	5	Small Freezer (under 10 cubic feet)	0.05	338.51	2708.08	0.01	101.99	816.17	30.10	8.00	3.36	0.16	1136.54	9092.34	0.05	342.12	2736.44
27	6	Great Refrigerator Roundup	Consumer	2007	Final	6	Small Fridge (under 10 cubic feet)	0.05	489.95	4409.56	0.02	147.48	1327.35	30.10	8.00	6.81	0.35	3334.26	30050.38	0.11	1003.67	1003.00
28	6	Great Refrigerator Roundup	Consumer	2007	Final	7	Top Freezer Fridge	0.08	731.62	4388.28	0.03	288.49	2578.44	38.15	9.00	314.32	24.67	230024.08	2070218.52	8.72	80049.81	616448.19
29	6	Great Refrigerator Roundup	Consumer	2007	Final	8	Upright Freezer	0.11	742.93	5943.41	0.05	339.64	2711.10	45.72	8.00	17.76	1.89	13195.23	103561.60	0.86	8032.37	48258.92
30	6	Great Refrigerator Roundup	Consumer	2007	Final	9	Window Air Conditioner	0.58	245.17	1463.77	0.24	103.51	485.81	43.10	4.50	6.00	3.37	1441.03	5484.65	1.45	621.00	2784.88
31	7	Cool & Hot Savings Rebate	Consumer	2007	Final	1	Energy Star® Central Air Conditioner - Hot Savings	0.17	154.93	2788.71	0.10	88.62	1595.14	67.20	18.00	116.38	19.73	18033.58	324552.42	11.26	10313.49	185442.84
32	7	Cool & Hot Savings Rebate	Consumer	2007	Final	2	Efficient Furnace with ECM - Hot Savings	0.50	635.70	12550.44	0.29	494.49	1411.31	59.10	15.00	244.99	121.65	204980.48	2074707.14	71.84	121143.46	1817181.92
33	7	Cool & Hot Savings Rebate	Consumer	2007	Final	3	Programmable Thermostat - Hot Savings	0.63	53.80	864.00	0.01	14.72	220.79	27.46	15.00	228.43	6.25	12136.55	162348.20	1.72	3332.94	49994.10
34	7	Cool & Hot Savings Rebate	Consumer	2007	Final	4	Energy Star® Central Air Conditioner, Tier 2 - Cool Savings	0.17	154.93	2788.71	0.10	88.62	1595.14	67.20	18.00	605.78	163.45	140326.68	2525980.23	87.17	82096.86	1444685.49
35	7	Cool & Hot Savings Rebate	Consumer	2007	Final	5	Energy Star® Central Air Conditioner, Tier 1 - Cool Savings	0.17	154.93	2788.71	0.10	88.62	1595.14	67.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	7	Cool & Hot Savings Rebate	Consumer	2007	Final	6	Medium Efficiency Furnace with ECM - Cool Savings	0.50	635.70	12550.44	0.29	494.49	1411.31	59.10	15.00	1202.11	598.42	1005682.78	15087041.37	352.48	594428.43	8915641.45
37	7	Cool & Hot Savings Rebate	Consumer	2007	Final	7	High Efficiency Furnace with ECM - Cool Savings	0.50	635.70	12550.44	0.29	494.49	1411.31	59.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	7	Cool & Hot Savings Rebate	Consumer	2007	Final	8	Programmable Thermostat - Cool Savings	0.09	53.61	858.18	0.01	14.72	220.79	27.46	15.00	1123.07	30.99	80209.98	903149.54	8.51	15034.88	248022.96
39	7	Cool & Hot Savings Rebate	Consumer	2007	Final	9	Central Air Conditioner Tune-ups - Cool Savings	0.28	234.97	1174.66	0.24	30.92	184.60	15.71	5.00	1113.50	285.10	261840.07	1306204.88	44.95	41110.34	205551.69
40	8	Every Kilowatt Counts	Consumer	2007	Final	1	115 W CFL	0.09	43.90	344.00	0.00	33.54	268.32	78.00	8.00	84328.09	122.03	4056148.96	32448175.70	55.85	31837.94	25310357.55
41	8	Every Kilowatt Counts	Consumer	2007	Final	2	20" W CFL	0.00	82.10	496.80	0.00	48.44	387.50	76.00	8.00	15355.87	29.18	95389.87	7628780.54	22.78	743857.60	9505661.39
42	8	Every Kilowatt Counts	Consumer	2007	Final	3	Energy Star® Light Fixture	0.01	122.90	1968.40	0.00	67.80	1081.52	55.00	18.00	366.38	2.59	45024.25	720489.52	1.13	24788.14	366258.24
43	8	Every Kilowatt Counts	Consumer	2007	Final	4	18 Fluorescent Tube	0.00	37.20	669.60	0.00	28.84	515.59	77.00	18.00	718.09	0.80	20713.00	488333.92	0.56	20560.01	310242.12
44	8	Every Kilowatt Counts	Consumer	2007	Final	5	Seasonal LED Light String	0.00	13.70	68.50	0.00	6.71										





- b) Enersource provided the updated input assumptions for the 2005 and 2006 Every Kilowatt Counts (EKC) at pages 7 and 8 of Attachment H, the SeeLine Group Ltd's Independent Third Party Review. The input assumptions included in the Independent Third Party Review are based on the most current OPA prescriptive measure assumptions, which have been identified in Appendices A and B of Attachment H.

Enersource confirms that the input assumptions for the OPA EKC programs were changed for 2007 and again in 2009. These assumptions can be found in the worksheet tab labeled "Measures – LDC" located in the Excel spreadsheet provided as Attachment 1 to this interrogatory response.

- [sic] a) Enersource submits that updated OPA prescriptive measure lives and assumptions and the unit savings were used to calculate the LRAM claim for EKC 2005 and 2006 Mass Market measures 13-15 W Energy Star CFLs. Based on these current OPA assumptions, the measure life of 13-15 W Energy Star CFLs is eight years, and therefore no adjustments are required.
- [sic] b) Enersource submits that it erroneously included Seasonal Light Emitting Diodes (LEDs) in its 2005 Third Tranche Savings claim. Enersource has recalculated the 2005 Third Tranche savings and found the impact on the LRAM amount to be minimal. The total Third Tranche LRAM claim before carrying charges has decreased from \$147,934 to \$145,636, a difference of only \$2,298. As stated in response to Board Staff Interrogatory #7 (B), updated information yielded an increase of Enersource's CDM savings and netted an increased LRAM claim of \$5,860, but due to its immateriality Enersource recommends making no change to the LRAM amount. Using the same logic, Enersource submits that the difference of \$2,298 is not significant and suggests that the original LRAM amount submitted in the application is reasonable and accurate.
- [sic] c) The custom project input assumptions used in this Application are consistent with those used and approved in EB-2010-0078 and EB-2009-0400. Details of project assumptions can be found in Appendix B, Appendix C, and Appendix D of Attachment H.



## Enersource Hydro Mississauga Inc. Responses to VECC Interrogatories

### VECC Question # 3

**Reference:** Attachment H, Report on Independent Review of Enersource's LRAM Claim

- a) For the Third Tranche CDM projects, please list the input assumptions used in prior LRAM claims compared to this claim for 13-15 W CFLs and LEDs.
- b) Identify all Mass Market Measures (CFLS etc) installed in 2005 and 2006 with measure lives of 4 years or less for which savings have been claimed in any prior claim.
- c) Adjust the current Third Tranche LRAM claim as necessary to reflect the measure lives (and unit savings) for any/all measures that have expired.

### **RESPONSE:**

- a) The Third Tranche input assumptions used in prior LRAM claims for 13-15 W CFLs and LEDs are shown in the table below.

<b>CFLs</b>				
Time Period	Unit kW	Unit kWh	Measure Life	Application No.
Jan 1, 2005 to Apr 30, 2007	0.000	104.4	4 years	EB-2007-0706
May 1, 2007 to Dec 31, 2008	0.000	44.9	8 years	EB-2009-0400
Jan 1, 2009 to Dec 31, 2009	0.001	46.3	8 years	EB-2010-0078

<b>LEDs</b>				
Time Period	Unit kW	Unit kWh	Measure Life	Application No.
Jan 1, 2005 to Apr 30, 2007	0.000	18.86	30 years	EB-2007-0706
May 1, 2007 to Dec 31, 2008	0.000	13.7	5 years	EB-2009-0400
Jan 1, 2009 to Dec 31, 2009	0.001	13.7	5 years	EB-2010-0078

- b) Based on current OPA measure assumptions (April 6, 2011) there are no Mass Market Measures (CFLs, etc.) installed in 2005 and 2006 with measure lives of four years or less.
- c) See response to VECC Interrogatory #2 [sic] b.