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March 1, 2011

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

Attention: Ms. Kirsten Walli, Board Secretary

Dear Ms Walli:

**Re: May 1, 2011 Cost of Service Technical Conference Undertaking
Responses / EB-2010-0144**

Pursuant to the Technical Conference of February 24, 2011, Waterloo North Hydro Inc. (WNH) is enclosing its Responses to Undertakings JT1.1 to JT1.5 from the Technical Conference.

WNH has filed an electronic copy of this document via the Board's web portal RESS and will deliver two copies of this document to the Board Offices.

If there are any questions, please contact Albert Singh at 519-888-5542, asingh@wnhydro.com or myself, Rene Gatien at 519-888-5544, rgatien@wnhydro.com.

Yours truly,

Original Signed By

Rene W. Gatien, P.Eng, MBA
President & C.E.O.

Undertakings from Technical Conference
February 24, 2011

UNDERTAKING NO. JT1.1: TO CALCULATE THE LOAD FACTOR OF OPA CDM PROGRAMS AS DOCUMENTED OPA REPORT FOR THE YEAR 2009.

The calculation of the load factor of OPA Programs for the year 2009 is 18%, however, WNH submits that 2009 is not a representative year. In 2009 WNH was responsible for four OPA Programs, in 2011 WNH may be responsible for ten programs. WNH has provided a table below which illustrates the load factor based on WNH's CDM Strategy, as prepared by Navigant Consulting Ltd., which was filed with the Board on November 1, 2010.

Table JT1.1 – Load Factor

Type of Program	MWh				MW			
	2011	2012	2013	2014	2011	2012	2013	2014
Residential	5,232	8,421	12,364	15,136	1.07	1.90	2.70	3.47
Commercial	8,386	15,703	23,171	30,307	1.93	3.64	5.43	7.22
Industrial	2,524	5,106	7,824	10,737	0.34	0.68	1.04	1.43
Estimated Demand Response					1.045	2.09	3.135	4.18
Tier 1 Programs	16,142	29,230	43,359	56,181	4.38	8.31	12.30	16.30
Tier 2 and 3 Programs	2,955	5,909	8,864	11,819				
Total Savings All Programs	19,097	35,139	52,223	68,000				
Load Factor Total	49.8%	48.2%	48.5%	47.6%				

UNDERTAKING NO. JT1.2: TO RECONCILE THE CALCULATION IN RESPONSE TO VECC TECHNICAL CONFERENCE QUESTION 13(B).

The 1,001,318 kWh was incorrectly provided in VECC IR 27 (f), the Annual kWh saved should have read 980,674. The application provided 980,674 kWh as the total savings on Attachment A and B of the report, as provided in response to Board Staff IR # 41. The 980,674 kWh divided by 35 units = 28,019 kWh.

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UNDERTAKING NO. JT1.3: TO PROVIDE REVENUE AND COSTS FOR ACCOUNTS 4375 AND 4380 RELATED TO THE OPA CDM PROGRAMS FOR 2010, ON AN ACTUAL AND FORECAST BASIS.

WNH has provided the preliminary 2010 actual information in the table below. WNH notes that it has recorded the lesser of the cost or revenue for the OPA Programs Revenue and Costs, as any differential between costs and revenue is either collected from, or refunded to, the OPA on an annual basis. These amounts are, thus, a flow through item.

Table Undertaking No. JT1.3 – OPA Program Revenues and Costs

	USoA	2010	
		Actual	Forecast
Ontario Power Authority Programs Revenue	4375	\$ 893,856	\$ 1,235,080
Ontario Power Authority Incentive Revenue	4375	263,055	89,489
Ontario Power Authority Programs Costs	4380	(893,856)	(1,235,080)
Total		\$ 263,055	\$ 89,489

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UNDERTAKING NO. JT1.4: TO PROVIDE PAGE NUMBER REFERENCES FOR ENERGY PROBE TECHNICAL CONFERENCE 13(A).

WNH notes that Undertaking No, JT1.4 should be referenced to VECC Technical Conference 13(a), not Energy Probe Technical Conference 13(a).

WNH notes that the page number reference was not provided as the 100W Metal Halide was not on the M&A lists. The assumptions used are provided below.

Base Measure: Annual Energy Consumption (kWh/yr)_{base} = $\sum u [(kW / Fixture) \times N \times H]_{base}$

$$= 0.156 \times 96 \times 3150$$

$$= 47174.4 \text{ kWh}$$

Conservation Measure: Annual Energy Consumption (kWh/yr)_{conservation} = $\sum u [(kW / Fixture) \times N \times H]_{conservation}$

$$= 0.1 \times 96 \times 3150$$

$$= 30240 \text{ kWh}$$

Annual Energy Savings: Annual Energy Savings (kWh/yr) = Annual Energy Consumption (kWh/yr)_{base} - Annual Energy

$$= 47174.4 \text{ kWh} - 30240 \text{ kWh}$$

$$= 16934.4 \text{ kWh}$$

Minus 10% free ridership = 15240.96 kWh

Base Measure Per Unit: $0.156 \times 3150 = 491.4 \text{ kWh}$

Conservation Measure Per Unit: $0.1 \times 3150 = 315 \text{ kWh}$

Annual Energy Savings Per Unit: 176.4 kWh

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***UNDERTAKING NO. JT1.5: TO PROVIDE INFORMATION REGARDING LAND AS
REFERENCED IN ENERGY PROBE TECHNICAL QUESTION NO. 2(C), TABLE 2-10.***

The \$89,925 in USoA 1805 in Table 2-10 is derived as follows:

Total Land Addition for New Administration Building and Service Centre Forecast for 2011	2,038,000
2009 CWIP, Land Costs to December 31, 2009	1,948,075
Additional Land Costs Forecast in 2011	89,925