

WATERLOO NORTH HYDRO INC.

PO Box 640 300 Northfield Drive East Waterloo ON N2J 4A3 Telephone 519-888-5544 Fax 519-886-8592

E-mail <u>rgatien@wnhydro.com</u> <u>www.wnhydro.com</u>

March 1, 2011

Energy Probe Research Foundation 225 Brunswick Avenue Toronto, Ontario M5S 2M6

VIA E-MAIL AND RESS

Attention: Mr. David McIntosh, Case Manager

Dear Mr. McIntosh:

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

Pursuant to the Technical Conference of February 24, 2011, Waterloo North Hydro Inc. (WNH) is enclosing its Responses to Energy Probe's Outstanding Technical Conference Questions of February 11, 2011.

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

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.



WATERLOO NORTH HYDRO INC.

PO Box 640 300 Northfield Drive East Waterloo ON N2J 4A3 Telephone 519-888-5544 Fax 519-886-8592

E-mail <u>rgatien@wnhydro.com</u> <u>www.wnhydro.com</u>

March 1, 2011

Aiken & Associates 578 McNaughton Ave. W. Chatham, Ontario N7L 4J6

VIA E-MAIL AND RESS

Attention: Mr. Randy Aiken

Dear Mr. Aiken:

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

Pursuant to the Technical Conference of February 24, 2011, Waterloo North Hydro Inc. (WNH) is enclosing its Responses to Energy Probe's Outstanding Technical Conference Questions of February 11, 2011.

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

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.

ENERGY PROBE TECHNICAL CONFERENCE QUESTIONS

Question #19

Ref: Energy Probe Interrogatory #35

a) It is not clear why two of the entries in the table provided in the response to part (a) show negative values (accounts 1808 and 1845). In both cases, the number of years used for depreciation declines, which would imply that the depreciation expense should be higher, not lower. Please explain.

WNH has provided a revised table (Table TCQ#19a) with updated number of years for depreciation.

Specifically, Account 1808 Municipal Substation showed in the previous table the number of years being decreased from 60 years to 50 years. Upon closer examination, we found that on average the assets in that category were depreciated using less than 50 years as the number of years for depreciation. The corrected table shows the number of years actually increased which would explain the negative value.

Similarly, for Account 1845, upon closer examination, the average years were previously under 25 and were increased to 25 years resulting in negative values.

.

Table TCQ # 19 (a) – Years of Depreciation

Descriptor	LIC- A	# Years De	epreciation	WNH Depreciation less than Board Model								
Descripton	USoA	Previous Current		2006	2007	2008	2009	2010	Total			
Municipal Substations	1808	<50	50	(384)	(384)	(384)	(384)	(384)	(1,922)			
Service Centre Building	1808	60	50	10,837	10,837	10,837	10,837	10,837	54,183			
Transformer Stations Building	1808	60	50	479	479	479	479	479	2,394			
Transformer Station Equipment	1815	50	40	16,038	16,038	16,038	16,038	16,038	80,189			
Municipal Substation Equipment	1820	35	30	3,388	3,388	3,388	3,388	3,388	16,940			
Underground Conductor & Device	1845	<25	25	(6,197)	(6,197)	(6,197)	(6,197)	(6,197)	(30,985)			
Underground Conduit	1840	35	25	23,187	23,187	23,187	23,187	13,324	106,073			
Overhead Transformer	1850	30	25	15,382	15,382	15,382	3,925	-	50,071			
Underground Transformer	1850	30	25	1,279	1,279	1,279	1,279	1,279	6,395			
Services Underground Commercial	1855	35	25	3,723	3,723	3,723	3,723	3,723	18,614			
Services Undergound Residential	1855	35	25	25,740	25,740	25,740	25,740	10,001	112,962			
Meters - Residential	1860	35	25	10,259	10,259	10,259	10,259	10,259	51,293			
Equipment - SCADA	1980	25	15	21,584	21,584	21,584	21,584	21,584	107,922			
Total Depreciation difference due	to Chang	e in Deprecia	ation Year	125,314	125,314	125,314	113,856	84,330	574,128			

b) Please explain why the adjustment for account 1820 is positive instead of negative since the number of years has increased, implying that the depreciation expense was higher than that using the Board years.

The previous table showed Account 1820 being increased from 19 years to 30 years. Closer examination revealed that the number of years should have been reported as 35 years going down to 30 years. This would result in a positive difference.

c) When did WNH make the changes in the number of years used for depreciation?

Depreciation rates were changed in the mid 1980's.

d) When rates were set for 2006, which set of depreciation years were used?

Rates used for 2006 were based on a combination of previous and current number of years.

Question #27

Ref: All Interrogatory Responses

a) Please update the Revenue Requirement Work Form to reflect any changes proposed by WNH as a result of the interrogatory responses provided, including any changes resulting from corrections to the original filing, updates, or adoption of changes resulting from the interrogatory responses.

WNH has provided its updated Revenue Requirement Work Form below.

Table TCQ # 27 (a) – Revenue Requirement Work Form

35	Revenue Red	quirement Work Form		
VT INCEPTI IC PERMANET	Name of LDC:		(1)	
	File Number:	EB-2010-0144		
Ontario	Rate Year:	2011	Version:	2.11

Table of Content

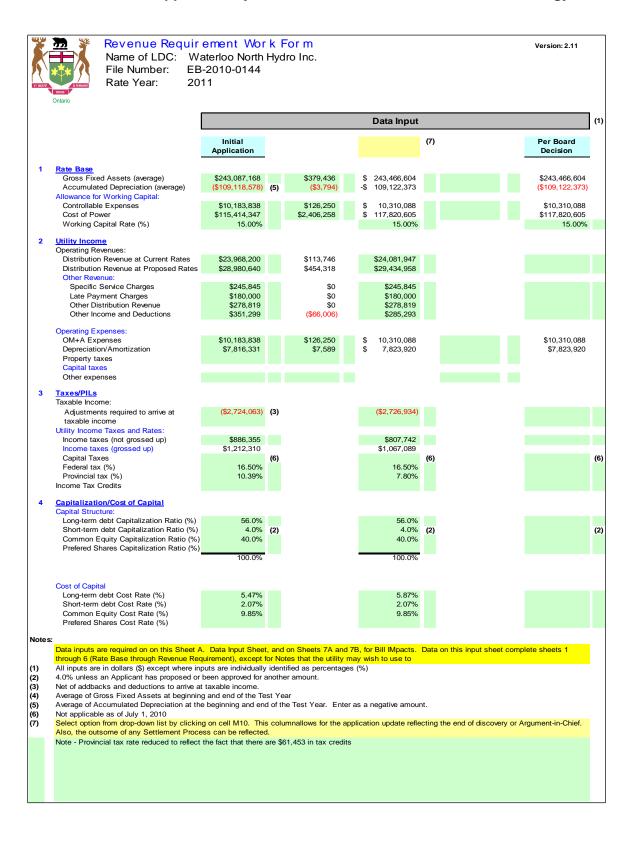
Sheet	<u>Name</u>
Α	Data Input Sheet
1	Rate Base
2	Utility Income
3	Taxes/PILS
4	Capitalization/Cost of Capital
5	Revenue Sufficiency/Deficiency
6	Revenue Requirement
7A	Bill Impacts -Residential
7B	Bill Impacts - GS < 50 kW

Notes

- (1) Pale green cells represent inputs
- (2) Pale yellow cells represent drop=down lists
- (3) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (4) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.

Copyright

This Revenue Requirement Work Form Model is protected by copyright and is being made available to you solely for the purpose of preparing or reviewing your draft rate order. You may use and copy this model for that purpose, and provide a copy of this mo



Version: 2.11

Supplementary Questions for Technical Conference - Energy Probe



Revenue Requirement Work Form

Name of LDC: Waterloo North Hydro Inc.

File Number: EB-2010-0144

Rate Year: 2011

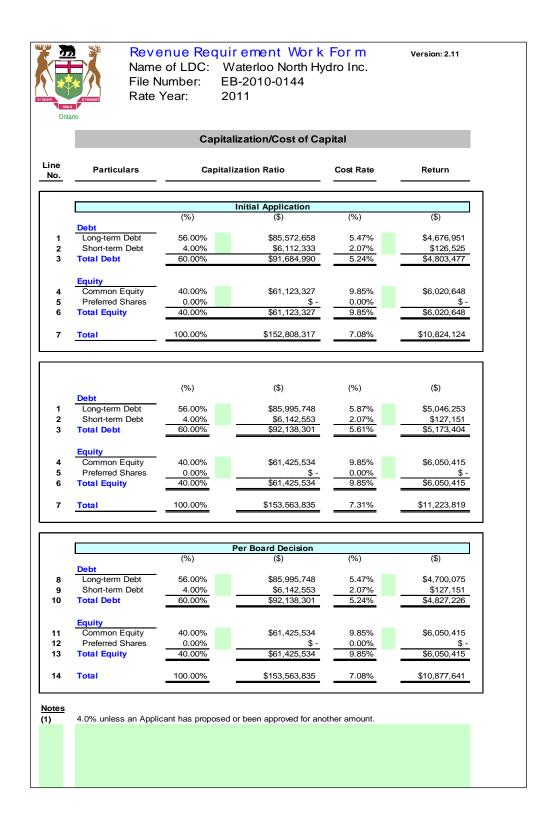
			Rate Base										
Line No.	Particulars	_	Initial Application				Per Board Decision						
1	Gross Fixed Assets (average)	(3)	\$243,087,168	\$379,436	\$243,466,604	\$ -	\$243,466,604						
2	Accumulated Depreciation (average)	(3)	(\$109,118,578)	(\$3,794)	(\$109,122,373)	\$ -	(\$109,122,373)						
3	Net Fixed Assets (average)	(3)	\$133,968,589	\$375,642	\$134,344,231	\$ -	\$134,344,231						
4	Allowance for Working Capital	(1)	\$18,839,728	\$379,876	\$19,219,604	\$ -	\$19,219,604						
5	Total Rate Base	_	\$152,808,317	\$755,518	\$153,563,835	\$ -	\$153,563,835						
	(1)		Allowance	e for Working Capital	I - Derivation								
6	Controllable Expenses		\$10,183,838	\$126,250	\$10,310,088	\$ -	\$10,310,088						
7	Cost of Power		\$115,414,347	\$2,406,258	\$117,820,605	\$ -	\$117,820,605						
8	Working Capital Base	_	\$125,598,185	\$2,532,508	\$128,130,693	\$ -	\$128,130,693						
9	Working Capital Rate %	(2)	15.00%	0.00%	15.00%	0.00%	15.00%						
10	Working Capital Allowance		\$18.839.728	\$379.876	\$19.219.604	\$ -	\$19,219,604						

Notes

- (2) Generally 15%. Some distributors may have a unique rate due as a result of a lead-lag study.
- (3) Average of opening and closing balances for the year.

	Revenue Requirement Work Form Name of LDC: Waterloo North Hydro Inc. File Number: FR 2010 01111									
VT INCEPIT	File Number: Rate Year:	EB-2010-0144 2011								
Or	ntario									
				Utility income						
Line No.	Particulars	Initial Application				Per Board Decision				
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$28,980,640	\$454,318	\$29,434,958	\$ -	\$29,434,958				
2	• •	\$1,055,963	(\$2,045,920)	\$989,957	<u> </u>	\$989,957				
3	Total Operating Revenues	\$30,036,603	(\$1,591,601)	\$30,424,915	\$ -	\$30,424,915				
4 5	Operating Expenses: OM+A Expenses Depreciation/Amortization	\$10,183,838 \$7,816,331	\$126,250 \$7,589	\$10,310,088	\$ - \$ -	\$10,310,088 \$7,823,920				
6 7 8	Property taxes Capital taxes Other expense	\$7,616,331 \$ - \$ - \$ -	\$7,569 \$ - \$ - \$ -	\$7,823,920 \$ -	\$ - \$ - \$ - \$ -	\$1,023,920				
9	Subtotal (lines 4 to 8)	\$18,000,168	\$133,839	\$18,134,007	\$ -	\$18,134,007				
10	Deemed Interest Expense	\$4,803,477	\$369,927	\$5,173,404	(\$346,178)	\$4,827,226				
11	Total Expenses (lines 9 to 10)	\$22,803,645	\$503,766	\$23,307,411	(\$346,178)	\$22,961,233				
12	Utility income before income taxes	\$7,232,958	(\$2,095,367)	\$7,117,504	\$346,178	\$7,463,682				
13	Income taxes (grossed-up)	\$1,212,310	(\$145,221)	\$1,067,089	<u> </u>	\$1,067,089				
14	Utility net income	\$6,020,648	(\$1,950,146)	\$6,050,415	\$346,178	\$6,396,593				
Notes										
(1)	Other Revenues / Revenue Offse	ts								
(-)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$245,845 \$180,000 \$278,819 \$351,299	\$ - \$ - \$ - (\$66,006)	\$245,845 \$180,000 \$278,819 \$285,293		\$245,845 \$180,000 \$278,819 \$285,293				
	Total Revenue Offsets	\$1,055,963	(\$66,006)	\$989,957	<u> </u>	\$989,957				

		ent Work For	ш			Version: 2.11	
HOELL			nc.				
		Taxes/PILs					
Line No.	Particulars	Application				Per Board Decision	
	<u>Determination of Taxable Income</u>						
1	Utility net income before taxes	\$6,020,648		\$6,050,415		\$6,050,415	
2	Adjustments required to arrive at taxable utility income	(\$2,724,063)		(\$2,726,934)		(\$2,724,063)	
3	Taxable income	\$3,296,585		\$3,323,481		\$3,326,352	
	Calculation of Utility income Taxes						
4 5	Income taxes Capital taxes	\$886,355 \$ -	(1)	\$807,742 \$-	(1)	\$807,742 \$-	•
6	Total taxes	\$886,355		\$807,742		\$807,742	4
7	Gross-up of Income Taxes	\$325,955		\$259,346		\$259,346	
8	Grossed-up Income Taxes	\$1,212,310		\$1,067,089		\$1,067,089	
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$1,212,310		\$1,067,089		\$1,067,089	=
10	Other tax Credits	\$ -		\$ -		\$ -	
	Tax Rates						
12	Federal tax (%) Provincial tax (%) Total tax rate (%)	16.50% 10.39% 26.89%		16.50% 7.80% 24.30%		16.50% 7.80% 24.30%	•
otes	Capital Taxes not applicable after July 1, 2010 (i	.e. for 2011 and late	r test y	vears)			



Revenue Requirement Work Form

Name of LDC: Waterloo North Hydro Inc.

File Number: EB-2010-0144

Rate Year: 2011

Version: 2.11

Revenue Sufficiency/Deficiency

		Revenue Sumiciency/Deniciency										
		Initial Applic	cation			Per Board De	ecision					
Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates					
1	Revenue Deficiency from Below		\$5,012,440		\$5,353,011		\$5,006,834					
2	Distribution Revenue	\$23,968,200	\$23,968,201	\$24,081,947	\$24,081,947	\$24,081,947	\$24,428,125					
3	Other Operating Revenue Offsets - net	\$1,055,963	\$1,055,963	\$989,957	\$989,957	\$989,957	\$989,957					
4	Total Revenue	\$25,024,163	\$30,036,603	\$25,071,904	\$30,424,915	\$25,071,904	\$30,424,915					
5	Operating Expenses	\$18,000,168	\$18,000,168	\$18,134,007	\$18,134,007	\$18,134,007	\$18,134,007					
6	Deemed Interest Expense	\$4,803,477	\$4,803,477	\$5,173,404	\$5,173,404	\$4,827,226	\$4,827,226					
	Total Cost and Expenses	\$22,803,645	\$22,803,645	\$23,307,411	\$23,307,411	\$22,961,233	\$22,961,233					
7	Utility Income Before Income Taxes	\$2,220,518	\$7,232,958	\$1,764,493	\$7,117,504	\$2,110,670	\$7,463,682					
8	Tax Adjustments to Accounting	(\$2,724,063)	(\$2,724,063)	(\$2,726,934)	(\$2,726,934)	(\$2,726,934)	(\$2,726,934)					
9	Income per 2009 PILs Taxable Income	(\$503,545)	\$4,508,895	(\$962,442)	\$4,390,570	(\$616,264)	\$4,736,748					
10	Income Tax Rate	26.89%	26.89%	24.30%	24.30%	24.30%	24.30%					
11	Income Tax on Taxable Income	(\$135,388)	\$1,212,310	(\$233,913)	\$1,067,089	(\$149,777)	\$1,151,224					
12	Income Tax On Taxable Income Income Tax Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					
13	Utility Net Income	\$2,355,906	\$6,020,648	\$1,998,406	\$6,050,415	\$2,260,448	\$6,396,593					
	Camily rest most me	Ψ2,000,000	ψ0,020,040	Ψ1,000,100	φο,οσο, ττο	ΨΣ,Σου, 110	ψο,οοο,οοο					
14	Utility Rate Base	\$152,808,317	\$152,808,317	\$153,563,835	\$153,563,835	\$153,563,835	\$153,563,835					
	Deemed Equity Portion of Rate Base	\$61,123,327	\$61,123,327	\$61,425,534	\$61,425,534	\$61,425,534	\$61,425,534					
15	Income/Equity Rate Base (%)	3.85%	9.85%	3.25%	9.85%	3.68%	10.41%					
16	Target Return - Equity on Rate Base	9.85%	9.85%	9.85%	9.85%	9.85%	9.85%					
17	Sufficiency/Deficiency in Return on Equity	-6.00%	0.00%	-6.60%	0.00%	-6.17%	0.56%					
18	Indicated Rate of Return	4.69%	7.08%	4.67%	7.31%	4.62%	7.31%					
19	Requested Rate of Return on	7.08%	7.08%	7.31%	7.31%	7.08%	7.08%					
	Rate Base											
20	Sufficiency/Deficiency in Rate of Return	-2.40%	0.00%	-2.64%	0.00%	-2.47%	0.23%					
21 22 23	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$6,020,648 \$3,664,741 \$5,012,440 (1)	\$6,020,648 \$0	\$6,050,415 \$4,052,010 \$5,353,011 (1)	\$6,050,415 \$0	\$6,050,415 \$3,789,967 \$5,006,834 (1)	\$6,050,415 \$346,178					

Notes:

1) Revenue Sufficiency/Deficiency divided by (1 - Tax Rate)

Version: 2.11

Supplementary Questions for Technical Conference - Energy Probe



Revenue Requirement Work Form Name of LDC: Waterloo North Hydro Inc.

File Number: EB-2010-0144

FIDE	Rate Year:	2011					
Onta	ario						
			Re	evenue Requirem	ent		
Line No.	Particulars	Application				Per Board Decision	
1 2 3 4 5	OM&A Expenses Amortization/Depreciation Property Taxes Capital Taxes Income Taxes (Grossed up)	\$10,183,838 \$7,816,331 \$ - \$ - \$ 1,212,310		\$10,310,088 \$7,823,920 \$ - \$1,067,089		\$10,310,088 \$7,823,920 \$ - \$1,067,089	
6 7	Other Expenses Return Deemed Interest Expense Return on Deemed Equity	\$- \$4,803,477 \$6,020,648		\$5,173,404 \$6,050,415		\$4,827,226 \$6,050,415	
8	Distribution Revenue Requirement before Revenues	\$30,036,603		\$30,424,915		\$30,078,737	
9 10	Distribution revenue Other revenue	\$28,980,640 \$1,055,963		\$29,434,958 \$989,957		\$29,434,958 \$989,957	
11	Total revenue	\$30,036,603		\$30,424,915		\$30,424,915	
12	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$0	(1)	\$0	(1)	\$346,178	(1)
Notes (1)	Line 11 - Line 8						

Revenue Requirement Work Form

Name of LDC: Waterloo North Hydro Inc.

Consumption 800 kWh

File Number: EB-2010-0144

Rate Year: 2011 Version: 2.11

Residential

Monthly Service Charge S	\$ - 0.00% \$ - 5 \$ 6.00 57.25% \$ - 0.00% \$ - 0.00% \$ - 0.008 \$ - 0.16 \$ 0.16 \$ 0.17 \$ - 0.08
1 Monthly Service Charge 2 Smart Meter Rate Adder 3 Service Charge Rate Adder 3 Service Charge Rate Adder 4 Service Charge Rate Rider 5 Distribution Volumetric Rate Low Voltage Rate Adder 5 Service Rate Rider 5 Distribution Volumetric Rate Adder 5 Distribution Volumetric Rate Rider 5	\$ - 0.00% \$ - 0.00% \$ - 0.00% \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
Smart Meter Rate Adder Sacrvice Charge Rate Adder(s) Sacrvice Charge Rate Adder(s) Sacrvice Charge Rate Rider(s) Sacrvice Charge Rate Rider(s) Sacrvice Charge Rate Rider(s) Sacrvice Charge Rate Rider Sacrvice Rate Rider Sacrvice Charge Rate Rider Sacrvice Rate Rider Sacrvice Rate Rider Sacrvice Rate Rider Sacrvice Rate Rider Rate Rider Sacrvice Rate Rider Rate Rider Sacrvice Rate Rider Rate Rider Rate Rider Rate Rider Sacrvice Rate Rider Rate Rider Rate Rate Rate Rate Rate Rate Rate Rate	\$ - 0.00% \$ - 5 \$ 6.00 57.25% \$ - 0.00% \$ - 0.00% \$ - 0.008 \$ - 0.16 \$ 0.16 \$ 0.17 \$ - 0.08
Service Charge Rate Adder(s) Service Charge Rate Rider(s) Service Charge Rate Rider Service Charge Rate Rider(s) Service Charge Rate Rider Service Charge Rate Rider(s) Service Charge Rate Rider Service Charge Rate Rider Service Charge Rate Rider(s) Service Charge Rate Rider Service Charge Rate Rider Service Charge Rate Rider Service Charge Rate Rider(s) Service Rate Rider Service Charge Rate Rider Service Charge Rate Rider Service Charge Rate Rider(s) Service Rate Rider Service Charge Rate Rate Rider Service Charge Rate Rider Service Charge Rate Rider Service Charge Rate Rider Service Charge Rate Rider Service Rate Rider Service Rate Rider Service Rate Rider Service Rate Rider Rate Portection Rate Rate Portection Rate Rider Service Rate Rate Rate Rate Rate Rate Rate Rat	\$ - \$ - \$ 6.00 57.25% \$ - \$ - \$ - \$ 0.16 \$ 0.08 -4.17% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
Service Charge Rate Rider(s) 5	\$
5 Distribution Volumetric Rate per kWh \$ 0.0131 800 \$ 10.48 \$ 0.0206 800 \$ 16.48 6 Low Voltage Rate Adder per kWh \$ 0.0001 800 \$ 0.08 \$ 0.0001 800 \$ 0.08 7 Volumetric Rate Adder(s) 800 \$ - 800 \$ - 800 \$ - 8 Volumetric Rate Rider(s) 800 \$ - 800 \$ - 800 \$ - 10 LRAM & SSM Rate Rider per kWh \$ - 800 \$ - \$ 0.0002 800 \$ - 11 Deferral/Variance Account Disposition Rate Rider per kWh \$ - \$ 0.0024 800 \$ 1.92 \$ 0.0002 800 \$ 1.84 13 LPP Rate Rider monthly \$ - \$ 0.0024 \$ 0.002 \$ 0.0023 800 \$ 1.84 15 Sub-Total A - Distribution per kWh per kWh \$ 0.0058 840.4 \$ 4.87 \$ 0.0066 832.32 \$ 5.49 18 Sub-Total B - Delivery (including Sub-Total A) per kWh \$ 0.0052 840.4 \$ 4.37	\$ 6.00 57.25% \$ - 0.00% \$ - 5 0.16 \$ 0.08 -4.17% \$ - 5 0.17 \$ - 5 0.17
Sub-Total A - Distribution Per kWh Per k	\$ - 0.00% \$ - \$ - \$ 0.16 \$ 0.08 -4.17% \$ - \$ - \$ -
Sub-Total A - Distribution Per kWh Per k	\$ - \$ - \$ 0.16 \$ 0.08 -4.17% \$ - \$ - \$ -
Solumetric Rate Rider Solumetric Rate Rate Protection (RRRP) Solumetric Rate Rate Rate Rider Solumetric Rate Rate Rider Solumetric Rate Rate Rate Rider Solumetric Rate Rate Rider Solumetric Rate Rate Rate Rider Solumetric Rate Rate Rider Solumetric Rate Rate Rate Rider Solumetric Rate Rate Rate Rider Solumetric Rate Rate Rider Solumetric Rate Rate Rate Rider Solumetric Rate Rate Rate Rate Rider Solumetric Rate Rate Rate Rate Rate Rate Rate Rate	\$ - \$ - \$ 0.16 \$ 0.08 -4.17% \$ - \$ - \$ -
9 Smart Meter Disposition Rider 10 LRAM & SSM Rate Rider 11 Deferral/Variance Account Disposition Rate Rider 12 LPP Rate Rider 13 LPP Rate Rider 14 LPP Rate Rider 15 Sub-Total A - Distribution 16 Sub-Total A - Distribution 17 RTSR - Network 18 RTSR - Line and Transformation Connection 19 Sub-Total B - Delivery (including Sub-Total A) 20 Wholesale Market Service Charge (WMSC) 21 Rural and Remote Rate Protection (RRRP) 9 Smart Meter Disposition Rider 1 \$ 0.0002 \$ 800 \$ 0.16 9 \$ 0.0002 \$ 800	\$ - \$ 0.16 \$ 0.08 -4.17% \$ - \$ - \$ -
10	\$ 0.16 \$ 0.08 -4.17% \$ 0.17 \$ - \$ - \$ -
Deferral/Variance Account Disposition Rate Rider	\$ 0.08 -4.17% \$ 0.17 \$ - \$ - \$ -
Disposition Rate Rider 12 LPP Rate Rider 13	\$ 0.17 \$ - \$ - \$ -
12 LPP Rate Rider	\$ - \$ - \$ -
13	\$ - \$ - \$ -
14 15	\$ - \$ -
Sub-Total A - Distribution Per kWh Per kWh Sub-Total B - Delivery (including Sub-Total A) Per kWh Protection (RRRP) Per kWh Protection (RRRP) Protection (RRRP) Protection (RRRP) Sub-Total A - Distribution Sub-Total A - Distribution Per kWh Sub-Total A - Distribution Sub-Total A - Distribution Per kWh Sub-Total B - Delivery (including Sub-Total A) Sub-Total B - Delivery (including Sub-Total	\$ -
16 Sub-Total A - Distribution 17 RTSR - Network RTSR - Line and Transformation Connection 19 Sub-Total B - Delivery (including Sub-Total A) 20 Wholesale Market Service Charge (WMSC) Per kWh Per kWh Sub-Total B - Delivery (including Sub-Total A) Per kWh Sub-Total B - Delivery (including Sub-Total A)	
17 RTSR - Network per kWh \$ 0.0058 840.4 \$ 4.87 \$ 0.0066 832.32 \$ 5.49 18 RTSR - Line and Transformation Connection \$ 0.0020 840.4 \$ 1.68 \$ 0.0021 832.32 \$ 1.75 19 Sub-Total B - Delivery (including Sub-Total A) \$ 30.76 \$ 30.76 \$ 37.85 20 Wholesale Market Service Charge (WMSC) per kWh \$ 0.0052 840.4 \$ 4.37 \$ 0.0052 832.32 \$ 4.33 21 Rural and Remote Rate Protection (RRRP) per kWh \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	A 0 44 00 400/
18 RTSR - Line and Transformation Connection per kWh \$ 0.0020 840.4 \$ 1.68 \$ 0.0021 832.32 \$ 1.75 19 Sub-Total B - Delivery (including Sub-Total A) \$ 30.76 \$ 30.76 \$ 37.85 20 Wholesale Market Service Charge (WMSC) Per kWh \$ 0.0052 840.4 \$ 4.37 \$ 0.0052 832.32 \$ 4.33 21 Rural and Remote Rate Protection (RRRP) per kWh \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	\$ 6.41 26.49%
Transformation Connection 19 Sub-Total B - Delivery (including Sub-Total A) 20 Wholesale Market Service Charge (WMSC) 21 Rural and Remote Rate Protection (RRRP) \$ 0.0020 840.4 \$ 1.68 \$ 0.0021 832.32 \$ 1.75 \$ 37.85 \$ 37.85 \$ 0.0052 832.32 \$ 4.33 \$ 1.08 \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	\$ 0.62 12.70%
19 Sub-Total B - Delivery (including Sub-Total A)	\$ 0.07 3.99%
(including Sub-Total A) 20 Wholesale Market Service Charge (WMSC) per kWh \$ 0.0052 840.4 \$ 4.37 \$ 0.0052 832.32 \$ 4.33 21 Rural and Remote Rate Protection (RRRP) per kWh \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	\$ 0.07 3.99%
20 Wholesale Market Service Charge (WMSC) per kWh \$ 0.0052 840.4 \$ 4.37 \$ 0.0052 832.32 \$ 4.33 21 Rural and Remote Rate Protection (RRRP) per kWh \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	\$ 7.10 23.07%
Charge (WMSC) 21 Rural and Remote Rate Protection (RRRP) Per kWh \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	
21 Rural and Remote Rate Protection (RRRP) per kWh \$ 0.0013 840.4 \$ 1.09 \$ 0.0013 832.32 \$ 1.08	-\$ 0.04 -0.96%
Protection (RRRP)	
	-\$ 0.01 -0.96%
22 Special Purpose Charge per kWh \$ 0.0003725 840.4 \$ 0.31 \$ 0.0003725 832.32 \$ 0.31	-\$ 0.00 -0.96%
23 Standard Supply Service Charge monthly \$ 0.2500 1 \$ 0.25 \$ 0.2500 1 \$ 0.25	\$ - 0.00%
24 Debt Retirement Charge (DRC) per kWh \$ 0.0070 840.4 \$ 5.88 \$ 0.0070 832.32 \$ 5.83	
25 Energy per kWh \$ 0.0684 840.4 \$ 57.47 \$ 0.0684 832.32 \$ 56.91	
26	\$ -
27 \$ - \$ -	\$ -
28 Total Bill (before Taxes) \$ 100.13 \$ 106.56	
29 HST	\$ 0.84 6.42%
30 Total Bill (including Sub-total \$ 113.15 \$ 120.41	\$ 7.26 6.42%
B)	
31 Loss Factor (%) Note 1 5.05% 4.04%	

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage. Energy Price October 15, 2010 Navigant Price - adjusted in both columns

10 11

21

23

24 25 26

27

28

29

30

Energy

HST

B)

Protection (RRRP)

Special Purpose Charge

Total Bill (before Taxes)

Debt Retirement Charge (DRC)

Total Bill (including Sub-total

Standard Supply Service Charge monthly

Revenue Requirement Work Form

Name of LDC: Waterloo North Hydro Inc.

Consumption

File Number: EB-2010-0144

Rate Year: 2011 Version: 2.11

General Service < 50 kW

0.0003725

0.2500

0.0070

0.0714

13%

\$

\$

2080.8

2080.8

\$ 14.57

2080.8 \$ 148.63

\$ 252.03

\$ 284.79

32.76

0.78

0.25

0.01

0.14

1.44

9.81

1.28

11.08

-\$

-0.96%

0.00%

-0.96%

-0.96%

4.05%

4.05%

4.05%

			Current B	oard-Appı	rove	ed	l [Pr	oposed	oosed			lmp	
			Rate	Volume	С	harge	Ιſ	Rate	Volume	0	Charge			%
	Charge Unit		(\$)			(\$)	Ц	(\$)			(\$)	\$ 0	Change	Change
Monthly Service Charge	monthly	\$	30.6300	1	\$	30.63	П	\$ 30.6300	1	\$	30.63	\$	-	0.00%
Smart Meter Rate Adder	monthly	\$	1.0000	1	\$	1.00	Ш	\$ 1.0000	1	\$	1.00	\$	-	0.00%
Service Charge Rate Adder(s)				1	\$	-	Ш		1	\$	-	\$	-	
Service Charge Rate Rider(s)				1	\$	-	Ш		1	\$	-	\$	-	
Distribution Volumetric Rate	per kWh	\$	0.0104	2000	\$	20.80	Ш	\$ 0.0151	2000	\$	30.20	\$	9.40	45.19%
Low Voltage Rate Adder	per kWh	\$	0.0001	2000	\$	0.20	Ш	\$ 0.0001	2000	\$	0.20	\$	-	0.00%
Volumetric Rate Adder(s)				2000	\$	-	Ш		2000	\$	-	\$	-	
Volumetric Rate Rider(s)				2000	\$	-	Ш		2000	\$	-	\$	-	
Smart Meter Disposition Rider				2000	\$	-	Ш		2000	\$	-	\$	-	
LRAM & SSM Rider	per kWh	\$	-	2000	\$	-	Ш	\$ 0.0001	2000	\$	0.20	\$	0.20	
Deferral/Variance Account	per kWh	-\$	0.0024	2000	-\$	4.80	Ш	-\$ 0.0024	2000	-\$	4.80	\$	-	0.00%
Disposition Rate Rider							Ш							
LPP Rate Rider	monthly				\$	-	Ш	\$ 0.4100	1	\$	0.41	\$	0.41	
					\$	-	Ш			\$	-	\$	-	
					\$	-	Ш			\$	-	\$	-	
					\$	-	П			\$	-	\$	-	
Sub-Total A - Distribution					\$	47.83	l			\$	57.84	\$	10.01	20.93%
RTSR - Network	per kWh	\$	0.0053	2101	\$	11.14	Ιſ	\$ 0.0060	2080.8	\$	12.48	\$	1.35	12.12%
RTSR - Line and	per kWh	\$	0.0018	2101	\$	3.78	Ш	\$ 0.0019	2080.8	\$	3.95	\$	0.17	4.54%
Transformation Connection							Ш							
Sub-Total B - Delivery					\$	62.75	lſ			\$	74.28	\$	11.53	18.38%
(including Sub-Total A)							Н							
Wholesale Market Service	per kWh	\$	0.0052	2101	\$	10.93	ΙÌ	\$ 0.0052	2080.8	\$	10.82	-\$	0.11	-0.96%
Charge (WMSC)							Ш							
Rural and Remote Rate	per kWh	\$	0.0013	2101	\$	2.73	Ш	\$ 0.0013	2080.8	\$	2.71	-\$	0.03	-0.96%

2101 \$ 0.78

2101

\$

2101 \$ 150.08

0.25

14.71

\$ 242.22

\$ 273.71

\$ 31.49

2000 kWh

31 Loss Factor 5.05% 4.04% Note 1

\$

per kWh

per kWh

0.0003725

0.2500

0.0070

0.0714

13%

Notes:

Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential

Energy Price October 15, 2010 Navigant Price - adjusted in both columns

Waterloo North Hydro Inc. 2011 EDR EB-2010-0144 Page 13 of 15

Supplementary Questions for Technical Conference - Energy Probe

b) Please provide a tracking sheet that shows the impact of each change proposed by WNH.

Please see the table below.

Table TCQ # 27 (b) – Summary of Proposed Changes

	Summary of Proposed Changes												
Reference	ltem	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance	Amortization	PILs	OM&A	Service Revenue Requirement	Base Revenue Requirement	Gross Revenue Deficiency	
Reference	ltem	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance	Amortization	PILs	OM&A	Service Revenue Requirement	Base Revenue Requirement	Gross Revenue Deficiency	
	Original Submission August 2010	\$10,824,124	7.08%	\$152,808,317	\$125,598,185	\$18,839,728	\$7,816,331	\$1,212,310	\$10,183,838	\$30,036,603	\$28,980,640	\$5,012,440	
OEB IR# 24 (a) & (b)	Adjust Infrastructure Ontario Debt to 1 Day Change	\$11,168,599 \$344,475	7.31% 0.23%	\$152,808,317 \$0	\$125,598,185 \$0	\$18,839,728 \$0	\$7,816,331 \$0	\$1,212,310 \$0	\$10,183,838 \$0	\$30,381,077 \$344,475	\$29,325,115 \$344,475	\$5,356,914 \$344,475	
	PILs Correction - Input Error - Bldg amount in Class 1b	\$11,168,599	7.31%	\$152,808,317	\$125,598,185	\$18,839,728	\$7,816,331	\$1,213,484	\$10,183,838	\$30,382,252	\$29,326,289	\$5,358,089	
	Change	\$0	\$0	\$0	\$0	\$0	\$0	\$1,175	\$0	\$1,175	\$1,175	\$1,175	
EP IR# 13 (e)	AFUDC Rate on Capitalized Interest	\$11,196,054	7.31%	\$153,183,959	\$125,598,185	\$18,839,728	\$7,823,920	\$1,213,336	\$10,183,838	\$30,417,147	\$29,361,185	\$5,392,984	
	Change	\$27,455	\$0	\$375,642	\$0	\$0	\$7,589	-\$148	\$0	\$34,896	\$34,896	\$34,896	
EP TCQ # 9 &	Adjust Purchase kWh for CDM Adjmts	\$11,196,054	7.31%	\$153,183,959	\$125,598,185	\$18,839,728	\$7,823,920	\$1,213,336	\$10,183,838	\$30,417,147	\$29,361,185	\$5,279,238	
EP IR # 19 (a)	Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$113,746	
EP TCQ # 9 &	Adjust Purchase kWh for CDM Adjmts @ Application Power Rates	\$11,204,832	7.31%	\$153,304,058	\$126,398,846	\$18,959,827	\$7,823,920	\$1,215,199	\$10,183,838	\$30,427,788	\$29,371,826	\$5,289,879	
VECC TCQ # 1 (b) & (c)	Change	\$8,778	\$0	\$120,099	\$800,661	\$120,099	\$0	\$1,863	\$0	\$10,641	\$10,641	\$10,641	
EP IR # 11 (b) &	Adjust Oct 15/10 Navigant Numbers, Power, GA & \$68.38 RPP Rates	\$11,202,097	7.31%	\$153,266,641	\$126,149,397	\$18,922,410	\$7,823,920	\$1,214,619	\$10,183,838	\$30,424,473	\$29,368,510	\$5,286,564	
VECC TCQ # 1 (a)	Change	-\$2,735	\$0	-\$37,417	-\$249,449	-\$37,417	\$0	-\$580	\$0	-\$3,315	-\$3,315	-\$3,315	
VECC TCQ # 1 (b) & (c)	Adjust NW & CN kW for Purchase & CDM Adjmts	\$11,212,740	7.31%	\$153,412,249	\$127,120,117	\$19,068,018	\$7,823,920	\$1,216,877	\$10,183,838	\$30,437,374	\$29,381,412	\$5,299,465	
	Change	\$10,642	\$0	\$145,608	\$970,720	\$145,608	\$0	\$2,259	\$0	\$12,901	\$12,901	\$12,901	
Decision EB-2010-0002	Adjust NW & CN kW for IESO & HONI January 1, 2011 Price Increases	\$11,221,588	7.31%	\$153,533,306	\$127,927,161	\$19,189,074	\$7,823,920	\$1,218,755	\$10,183,838	\$30,448,100	\$29,392,137	\$5,310,191	
	Change	\$8,848	\$0	\$121,057	\$807,044	\$121,057	\$0	\$1,878	\$0	\$10,726	\$10,726	\$10,726	
OEB IR # 21	OMERS increase for 2012 & 2013	\$11,222,972	7.31%	\$153,552,243	\$128,053,411	\$19,208,012	\$7,823,920	\$1,219,049	\$10,310,088	\$30,576,028	\$29,520,065	\$5,438,118	
	Change	\$1,384	\$0	\$18,938	\$126,250	\$18,938	\$0	\$294	\$126,250	\$127,928	\$127,928	\$127,928	
EP IR 23 (c) / 29 (a) & (b)	Removal of Street Light Return & PILs	\$11,222,972	7.31%	\$153,552,243	\$128,053,411	\$19,208,012	\$7,823,920	\$1,219,049	\$10,310,088	\$30,576,028	\$29,586,071	\$5,504,124	
EP TCQ 14 (a)	Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$66,006	\$66,006	
EP IR 40 & EP TCQ 21 (a)	PILs - Computer Hardware to Correct CCA Account	\$11,222,972	7.31%	\$153,552,243	\$128,053,411	\$19,208,012	\$7,823,920	\$1,193,531	\$10,310,088	\$30,550,510	\$29,560,553	\$5,478,606	
	Change	\$0	\$0	\$0	\$0	\$0	\$0	-\$25,518	\$0	-\$25,518	-\$25,518	-\$25,518	
EP IR 41 / EP TCQ 21(b)	PILs - Land Rights CCA	\$11,222,972	7.31%	\$153,552,243	\$128,053,411	\$19,208,012	\$7,823,920	\$1,192,976	\$10,310,088	\$30,549,955	\$29,559,998	\$5,478,051	

Summary of Proposed Changes												
Reference	ltem	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance	Amortization	PILs	OM&A	Service Revenue Requirement	Base Revenue Requirement	Gross Revenue Deficiency
EP TCQ 17	PILs - Adjust Apprentice & Co-op Tax Credits	\$11,222,972	7.31%	\$153,552,243	\$128,053,411	\$19,208,012	\$7,823,920	\$1,117,432	\$10,310,088	\$30,474,411	\$29,484,454	\$5,402,507
EP TCQ 20 (b)	Change	\$0	\$0	\$0	\$0	\$0	\$0	-\$75,544	\$0	-\$75,544	-\$75,544	-\$75,544
EP IR 38 (b)	PILs - Reduction of Ontario Surtax Clawback	\$11,222,972	7.31%	\$153,552,243	\$128,053,411	\$19,208,012	\$7,823,920	\$1,066,909	\$10,310,088	\$30,423,888	\$29,433,931	\$5,351,984
	Change	\$0	\$0	\$0	\$0	\$0	\$0	-\$50,523	\$0	-\$50,523	-\$50,523	-\$50,523
EPTCQ#9	Adjust Purchase kWh for WMS	\$11,223,819	7.31%	\$153,563,835	\$128,130,693	\$19,219,604	\$7,823,920	\$1,067,089	\$10,310,088	\$30,424,915	\$29,434,958	\$5,353,011
	Change	\$847	\$0	\$11,592	\$77,282	\$11,592	\$0	\$180	\$0	\$1,027	\$1,027	\$1,027
OEB IR 29 (e)	Cost Allocation - Adjustment of Street Light Connections	\$11,223,819	7.31%	\$153,563,835	\$128,130,693	\$19,219,604	\$7,823,920	\$1,067,089	\$10,310,088	\$30,424,915	\$29,434,958	\$5,353,011
	Change	\$847	\$0	\$11,592	\$77,282	\$11,592	\$0	\$180	\$0	\$1,027	\$1,027	\$1,027
BS IR 8 (b)	Adjustment of RTSR for Updated Quantity & Pricing Changes	\$11,223,819	7.31%	\$153,563,835	\$128,130,693	\$19,219,604	\$7,823,920	\$1,067,089	\$10,310,088	\$30,424,915	\$29,434,958	\$5,353,011
	Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
VECC IR 29	Adjustment of LRAM/SSM	\$11,223,819	7.31%	\$153,563,835	\$128,130,693	\$19,219,604	\$7,823,920	\$1,067,089	\$10,310,088	\$30,424,915	\$29,434,958	\$5,353,011
	Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EB-2010-0295 Decision	Late Payment Penalty Rate Rider	\$11,223,819	7.31%	\$153,563,835	\$128,130,693	\$19,219,604	\$7,823,920	\$1,067,089	\$10,310,088	\$30,424,915	\$29,434,958	\$5,353,011
	Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Proposed at March 1, 2011	\$11,223,819	7.31%	\$153,563,835	\$128,130,693	\$19,219,604	\$7,823,920	\$1,067,089	\$10,310,088	\$30,424,915	\$29,434,958	\$5,353,011