AIRD & BERLIS LLP

Barristers and Solicitors

Scott Stoll Direct: 416.865.4703 E-mail: sstoll@airdberlis.com

March 23, 2015

### **VIA COURIER, EMAIL AND RESS**

Ms. Kirsten Walli Board Secretary Ontario Energy Board 2300 Yonge Street, 27<sup>th</sup> Floor Toronto, ON M4P 1E4

Dear Ms. Walli:

## Re: Niagara Peninsula Energy Inc. 2015 Cost of Service Rate Application Board File No. EB-2014-0096

We are counsel to the Applicant, Niagara Peninsula Energy Inc. ("NPEI") in the above noted matter.

Kindly find enclosed our client's Response to Undertakings provided at the oral hearing.

If there are any questions, please contact the undersigned.

Yours very truly,

**AIRD & BERLIS LLP** 

Scott Sto

SAS/bm

cc: Case Manager, Christie Clark (*via email*) Case Manager, Richard Battista (*via email*) Board Counsel, Maureen Helt (*via email*) Intervenors (*via email*)

Encl.

22146960.1

NPEI Response to Undertaking March 23, 2015 Page 1 of 2

## **RESPONSE TO UNDERTAKING**

# **UNDERTAKING NO. J1.1:** TO INDICATE THE KILOWATT-HOURS WHERE THE FIXED/VARIABLE SPLIT RESULTS IN A LOWER TOTAL BILL INCREASE THAN MAINTAINING THE EXISTING FIXED/VARIABLE SPLIT.

## **Response:**

At the oral hearing, NPEI indicated that the crossover was 711kWh based upon the analysis they were able to do that day. NPEI also indicated that it intended to file additional information regarding the number of customers above and below the threshold.

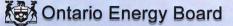
NPEI conducted a more detailed analysis and determination of consumption levels within the previously provided residential customer consumption bands. NPEI determined that approximately 40% of customers would benefit from the proposed shift to a 65:35fixed-variable split.

As a result of this new evidence, NPEI will be revising its request to maintain the current fixedvariable split for the residential class in order to provide a benefit to the greater number of customers.

# **UNDERTAKING NO. J1.2:** TO PROVIDE THE CALCULATIONS CONDUCTED BY NPEI WITH RESPECT TO THE TABLE FOUND ON PAGE 5 OF 18 OF ENERGY PROBE'S COMPENDIUM.

## **Response:**

See Attached Revised Revenue Requirement Work Form using a 12% Working Capital Allowance.



## Revenue Requirement Workform (RRWF) for 2015 Filers



Version 5.00

Utility Name	Niagara Peninsula Energy Inc.
Service Territory	
Assigned EB Number	EB-2014-0096
Name and Title	Suzanne Wilson, VP Finance
Phone Number	905-353-6004
Email Address	suzanne.wilson@npei.ca

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

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

## Revenue Requirement Workform (RRWF) for 2015 Filers

<u>1. Info</u>	6. Taxes PILs
2. Table of Contents	7. Cost of Capital
3. Data Input Sheet	8. Rev Def Suff
4. Rate Base	9. Rev Reqt
5. Utility Income	10. Tracking Sheet

Notes:

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

## **Revenue Requirement Workform** (RRWF) for 2015 Filers

### Data Input <sup>(1)</sup>

		Initial Application	(2)	Adjustments	Settlement Agreement	(6)	Adjustments	Per Board Decision
1	Rate Base							
	Gross Fixed Assets (average)	\$247,689,793		(\$1,445,365)	\$ 246,244,429			\$246,244,429
	Accumulated Depreciation (average)	(\$123,945,922)	(5)	\$834,982	(\$123,110,940)			(\$123,110,940)
	Allowance for Working Capital:							
	Controllable Expenses	\$17,041,580		(\$616,585)	\$ 16,424,995			\$16,424,995
	Cost of Power	\$136,943,243		\$7,206,425.71	\$ 144,149,669			\$144,149,669
	Working Capital Rate (%)	13.00%	(9)		12.00%	(9)		12.00% (9)
2	Utility Income							
	Operating Revenues:							
	Distribution Revenue at Current Rates	\$28,371,080		\$294,112	\$28,665,192			
	Distribution Revenue at Proposed Rates	\$29,374,853		(\$827,596)	\$28,547,257			
	Other Revenue:							
	Specific Service Charges	\$803,285		(\$0)	\$803,285			
	Late Payment Charges	\$361,000		\$0	\$361,000			
	Other Distribution Revenue	\$251,187		\$6,047	\$257,234			
	Other Income and Deductions	\$181,003		\$0	\$181,003			
	Total Revenue Offsets	\$1,596,475	(7)	\$6,047	\$1,602,522			
	Operating Expenses:							
	OM+A Expenses	\$16,754,348		(\$616,585)	\$ 16,137,763		\$ -	\$16,137,763
	Depreciation/Amortization	\$4,936,879		\$97,195	\$ 5,034,074			\$5,034,074
	Property taxes	\$287,232			\$ 287,232			\$287,232
	Other expenses							
3	Taxes/PILs							
	Taxable Income:							
	Adjustments required to arrive at taxable	(\$4,814,861)	(3)		(\$4,598,147)			
	income							
	Utility Income Taxes and Rates:							
	Income taxes (not grossed up)	\$34,407			\$104,291			
	Income taxes (grossed up)	\$43,189			\$141,893			
	Federal tax (%)	15.00%			15.00%			
	Provincial tax (%)	5.33%			11.50%			
	Income Tax Credits	(\$81,003)			(\$81.003)			
4	Capitalization/Cost of Capital Capital Structure:							
	Long-term debt Capitalization Ratio (%)	56.0%			56.0%			56.0%
	Short-term debt Capitalization Ratio (%)	4.0%	(8)		4.0%	(8)		4.0% (8)
	Common Equity Capitalization Ratio (%)	40.0%			40.0%			40.0%
	Prefered Shares Capitalization Ratio (%)							
		100.0%			100.0%			100.0%
	Cost of Capital							
	Long-term debt Cost Rate (%)	4.28%			2 000			0.000
	Short-term debt Cost Rate (%)	4.28%			3.92% 2.16%			3.92% 2.16%
	Common Equity Cost Rate (%)	9.36%			9.30%			2.16%
	Prefered Shares Cost Rate (%)	0.00%			9.30%			9.30%
		0.00%						

Notes:

General Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

(1)

All inputs are in dollars (\$) except where inputs are individually identified as percentages (%) Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use colimn M and Adjustments in column I (2)

(3) Net of addbacks and deductions to arrive at taxable income.

(4)

Average of Gross Fixed Assets at beginning and end of the Test Year Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount. (5)

Select option from drop-down list by clicking on cell M10. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the (6) outcome of any Settlement Process can be reflected.

(7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement

4.0% unless an Applicant has proposed or been approved for another amount. (8)

(9) Starting with 2013, default Working Capital Allowance factor is 13% (of Cost of Power plus controllable expenses). Alternatively, WCA factor based on lead-lag study or approved WCA factor for another distributor, with supporting rationale.

## Revenue Requirement Workform (RRWF) for 2015 Filers

### **Rate Base and Working Capital**

### **Rate Base** Line Initial Settlement Per Board Particulars Adjustments Adjustments No. Application Agreement Decision 1 Gross Fixed Assets (average) (3) \$247,689,793 (\$1,445,365)\$246,244,429 \$ -\$246,244,429 2 Accumulated Depreciation (average) (3) (\$123,945,922) \$834,982 (\$123,110,940) \$-\$-(\$123,110,940) Net Fixed Assets (average) 3 (3) \$123,743,871 (\$610,383)\$123,133,488 \$123,133,488 4 Allowance for Working Capital (1) \$20,018,027 (\$749,067) \$19,268,960 \$ -\$19,268,960 5 **Total Rate Base** \$143,761,898 (\$1,359,450)\$142,402,448 \$142,402,448 \$ -

### (1) Allowance for Working Capital - Derivation

6 7	Controllable Expenses Cost of Power	_	\$17,041,580 \$136,943,243	(\$616,585) \$7,206,426	\$16,424,995 \$144,149,669	\$ -	\$16,424,995 \$144,149,669
o	Working Capital Base		\$153,984,823	\$6,589,841	\$160,574,664	\$ -	\$160,574,664
9	Working Capital Rate %	(2)	13.00%	-1.00%	12.00%	0.00%	12.00%
10	Working Capital Allowance		\$20,018,027	(\$749,067)	\$19,268,960	\$ -	\$19,268,960

### <u>Notes</u> (2) (3)

Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2014 cost of service applications is 13%.

Average of opening and closing balances for the year.

## Revenue Requirement Workform (RRWF) for 2015 Filers

### Utility Income

Line No.	Particulars	Initial Application	Adjustments	Settlement Agreement	Adjustments	Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$29,374,853	(\$827,596)	\$28,547,257	\$ -	\$28,547,257
2	Other Revenue (1	)\$1,596,475	\$6,047	\$1,602,522	<u> </u>	\$1,602,522
3	Total Operating Revenues	\$30,971,328	(\$821,549)	\$30,149,779	\$ -	\$30,149,779
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$16,754,348 \$4,936,879 \$287,232 \$ - \$ - \$ -	(\$616,585) \$97,195 \$- \$- \$- \$-	\$16,137,763 \$5,034,074 \$287,232 \$ -	\$ - \$ - \$ - \$ - \$ -	\$16,137,763 \$5,034,074 \$287,232 \$ -
9	Subtotal (lines 4 to 8)	\$21,978,459	(\$519,390)	\$21,459,069	\$ -	\$21,459,069
10	Deemed Interest Expense	\$3,567,234	(\$315,788)	\$3,251,447	\$ -	\$3,251,447
11	Total Expenses (lines 9 to 10)	\$25,545,693	(\$835,178)	\$24,710,515	\$ -	\$24,710,515
12	Utility income before income taxes	\$5,425,635	\$13,629	\$5,439,264	\$ -	\$5,439,264
13	Income taxes (grossed-up)	\$43,189	\$98,704	\$141,893	\$	\$141,893
14	Utility net income	\$5,382,446	(\$85,075)	\$5,297,371	\$ -	\$5,297,371
Notes	Other Revenues / Revenu	e Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$803,285 \$361,000 \$251,187 \$181,003	(\$0) \$ - \$6,047 \$ -	\$803,285 \$361,000 \$257,234 \$181,003		\$803,285 \$361,000 \$257,234 \$181,003
	Total Revenue Offsets	\$1,596,475	\$6,047	\$1,602,522	\$ -	\$1,602,522

4

## Revenue Requirement Workform (RRWF) for 2015 Filers

### Taxes/PILs

Line No.	Particulars	Application	Settlement Agreement	Per Board Decision
	Determination of Taxable Income			
1	Utility net income before taxes	\$5,382,445	\$5,297,371	\$5,297,371
2	Adjustments required to arrive at taxable utility income	(\$4,814,861)	(\$4,598,147)	(\$4,814,861)
3	Taxable income	\$567,584	\$699,224	\$482,510
	Calculation of Utility income Taxes			
4	Income taxes	\$34,407	\$104,291	\$104,291
6	Total taxes	\$34,407	\$104,291	\$104,291
7	Gross-up of Income Taxes	\$8,782	\$37,602	\$37,602
8	Grossed-up Income Taxes	\$43,189	\$141,893	\$141,893
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$43,189	\$141,893	\$141,893
10	Other tax Credits	(\$81,003)	(\$81,003)	(\$81,003)
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 5.33% 20.33%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes

## Revenue Requirement Workform (RRWF) for 2015 Filers

### **Capitalization/Cost of Capital**

Line No.	Particulars	Capitalizat	ion Ratio	Cost Rate	Return
		Initial App	lication		
	Debt	(%)	(\$)	(%)	(\$)
1 2 3	Debt Long-term Debt Short-term Debt Total Debt	56.00% 4.00% 60.00%	\$80,506,663 \$5,750,476 \$86,257,139	4.28% 2.11% 4.14%	\$3,445,899 \$121,335 \$3,567,234
4 5 6	Equity Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$57,504,759 \$ - \$57,504,759	9.36% 0.00% 9.36%	\$5,382,445 \$- \$5,382,445
7	Total	100.00%	\$143,761,898	6.23%	\$8,949,680
		Settlement A	Agreement		
1 2 3	Debt Long-term Debt Short-term Debt Total Debt	(%) 56.00% <u>4.00%</u> <u>60.00%</u>	(\$) \$79,745,371 \$5,696,098 \$85,441,469	(%) 3.92% 2.16% 3.81%	(\$) \$3,128,411 \$123,036 \$3,251,447
4 5 6 7	Equity Common Equity Preferred Shares Total Equity Total	40.00% 0.00% 40.00%	\$56,960,979 \$ - \$56,960,979 \$142,402,448	9.30% 0.00% 9.30% 6.00%	\$5,297,371 <u>\$ -</u> \$5,297,371
'	Total	100.00%	\$142,402,448	6.00%	\$8,548,818
		Per Board	Decision		
8 9 10	Debt Long-term Debt Short-term Debt Total Debt	(%) 56.00% <u>4.00%</u> 60.00%	(\$) \$79,745,371 \$5,696,098 \$85,441,469	(%) 3.92% 2.16% 3.81%	(\$) \$3,128,411 <u>\$123,036</u> \$3,251,447
11 12 13	Equity Common Equity Preferred Shares Total Equity	40.00% 0.00% 40.00%	\$56,960,979 \$ - \$56,960,979	9.30% 0.00% 9.30%	\$5,297,371 <u>\$ -</u> \$5,297,371
14	Total	100.00%	\$142,402,448	6.00%	\$8,548,818

<u>Notes</u> (1)

Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use colimn M and Adjustments in column I

## Revenue Requirement Workform (RRWF) for 2015 Filers

### **Revenue Deficiency/Sufficiency**

		Initial Appli	cation	tion Settlement Agreement Per Board Dec			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		\$1,003,772		(\$117,934)		(\$117,934)
2	Distribution Revenue	\$28,371,080	\$28,371,081	\$28,665,192	\$28,665,191	\$28,665,192	\$28,665,191
3	Other Operating Revenue Offsets - net	\$1,596,475	\$1,596,475	\$1,602,522	\$1,602,522	\$1,602,522	\$1,602,522
4	Total Revenue	\$29,967,555	\$30,971,328	\$30,267,714	\$30,149,779	\$30,267,714	\$30,149,779
5	Operating Expenses	\$21,978,459	\$21,978,459	\$21,459,069	\$21,459,069	\$21,459,069	\$21,459,069
6	Deemed Interest Expense	\$3,567,234	\$3,567,234	\$3,251,447	\$3,251,447	\$3,251,447	\$3,251,447
8	Total Cost and Expenses	\$25,545,693	\$25,545,693	\$24,710,515	\$24,710,515	\$24,710,515	\$24,710,515
9	Utility Income Before Income Taxes	\$4,421,862	\$5,425,635	\$5,557,198	\$5,439,264	\$5,557,198	\$5,439,264
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$4,814,861)	(\$4,814,861)	(\$4,598,147)	(\$4,598,147)	(\$4,598,147)	(\$4,598,147)
11	Taxable Income	(\$392,999)	\$610,774	\$959,052	\$841,117	\$959,052	\$841,117
12	Income Tax Rate	20.33%	20.33%	26.50%	26.50%	26.50%	26.50%
13	Income Tax on Taxable Income	(\$79,911)	\$124,192	\$254,149	\$222,896	\$254,149	\$222,896
14	Income Tax Credits	(\$81,003)	(\$81,003)	(\$81,003)	(\$81,003)	(\$81,003)	(\$81,003)
15	Utility Net Income	\$4,582,775	\$5,382,446	\$5,384,053	\$5,297,371	\$5,384,053	\$5,297,371
16	Utility Rate Base	\$143,761,898	\$143,761,898	\$142,402,448	\$142,402,448	\$142,402,448	\$142,402,448
17	Deemed Equity Portion of Rate Base	\$57,504,759	\$57,504,759	\$56,960,979	\$56,960,979	\$56,960,979	\$56,960,979
18	Income/(Equity Portion of Rate Base)	7.97%	9.36%	9.45%	9.30%	9.45%	9.30%
19	Target Return - Equity on Rate Base	9.36%	9.36%	9.30%	9.30%	9.30%	9.30%
20	Deficiency/Sufficiency in Return on Equity	-1.39%	0.00%	0.15%	0.00%	0.15%	0.00%
21	Indicated Rate of Return	5.67%	6.23%	6.06%	6.00%	6.06%	6.00%
22	Requested Rate of Return on Rate Base	6.23%	6.23%	6.00%	6.00%	6.00%	6.00%
23	Deficiency/Sufficiency in Rate of Return	-0.56%	0.00%	0.06%	0.00%	0.06%	0.00%
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$5,382,445 \$799,670 \$1,003,772 <b>(1)</b>	\$5,382,445 \$0	\$5,297,371 (\$86,682) (\$117,934) (1)	\$5,297,371 (\$1)	\$5,297,371 (\$86,682) (\$117,934) (1)	\$5,297,371 ( <mark>\$1)</mark>

Notes: (1)

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

## Revenue Requirement Workform (RRWF) for 2015 Filers

## **Revenue Requirement**

Line No.	Particulars	Application		Settlement Agreement		Per Board Decision	
1	OM&A Expenses	\$16,754,348		\$16,137,763		\$16,137,763	
2	Amortization/Depreciation	\$4,936,879		\$5,034,074		\$5,034,074	
3	Property Taxes	\$287,232		\$287,232		\$287,232	
5	Income Taxes (Grossed up)	\$43,189		\$141,893		\$141,893	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$3,567,234		\$3,251,447		\$3,251,447	
	Return on Deemed Equity	\$5,382,445		\$5,297,371		\$5,297,371	
8	Service Revenue Requirement (before Revenues)	\$30,971,328		\$30,149,780		\$30,149,780	
9 10	Revenue Offsets Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)	\$1,596,475 \$29,374,853		\$1,602,522 \$28,547,258		<u>\$ -</u> \$30,149,780	
11	Distribution revenue	\$29,374,853		\$28,547,257		\$28,547,257	
12	Other revenue	\$1,596,475		\$1,602,522		\$1,602,522	
				<i><b></b></i>		<i><b></b></i>	
13	Total revenue	\$30,971,328		\$30,149,779		\$30,149,779	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	\$0	(1)	(\$1)	(1)	(\$1)	(1)

Notes (1)

Line 11 - Line 8