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Vice President
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BY COURIER

September 8, 2015

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, ON M4P 1E4

Dear Ms. Walli,

EB-2015-0141 – Rogers Communication Partnership et al. for Leave to Bring a Motion to Review and Vary Decision EB-2013-0416/EB2014-0247 – Hydro One Interrogatory Responses

Please find attached an electronic copy of responses provided by Hydro One Networks Inc. to Interrogatory questions. Two (2) hard copies will be sent to the Board shortly.

Below are the Tab numbers corresponding to each intervenor:

| Tab | Intervenor |
|------------|-------------------|
| 1 | Board Staff |
| 2 | SIA |
| 3 | VECC |
| 4 | The Carriers |

An electronic copy of the Interrogatories, have been filed using the Board's Regulatory Electronic Submission System.

Sincerely,

ORIGINAL SIGNED BY ODED HUBERT

Oded Hubert

Enc.

cc. Intervenors (electronic)

1 **Ontario Energy Board (Board Staff) INTERROGATORY #1**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab5/Schedule1/Page 31

6
7 Table 16 outlines the 4 specific cost categories (Net Embedded Cost, Depreciation per
8 Pole, Capital Carrying Cost, Maintenance) to arrive at the Total Capital Related Costs as
9 well as the Loss of Productivity and Administration costs that make up the currently
10 approved rate of \$22.35 per month and the proposed new rate of \$37.05 per month.

11
12 Please define each item and provide a detailed breakdown of each of these specific cost
13 categories and the reason for the change between the current rate and the proposed rate
14 for each item

15
16 **Response**

17
18 The costs found in Table 16 in the pre-filed evidence for proceeding EB-2013-0416 were
19 calculated using Hydro One's 2012 actual values and using the approved OEB
20 methodology for 2.5 attachers in OEB Decision and Order RP-2003-0249 (March 2005).
21 The 2012 values were the latest audited numbers at the time of the December 2013 filing.
22 In the OEB Decision and Order, the OEB relied on 1995 values from Milton Hydro to
23 arrive at the pole attachment rate of \$22.35.

24
25 **Definitions and Detailed Breakdown of Cost Categories**

26
27 **A- "Net Embedded Cost" ("NEC") =>**

28
29
$$[(\text{Acquisition Value from USofA \#1830} - \text{Accumulated Depreciation}) / \text{Quantity of}$$

30
$$\text{Dx Poles}] \times 85\%$$

31
$$[(\$2,285,926,192.14 - \$767,617,956.42) / 1,730,300 \text{ poles}] \times 85\% = \$745.86$$

32
33 *85% was used to exclude power-specific or power-only assets

34
35 **B- "Depreciation per Pole" =>**

36
37
$$\text{NEC} \times \text{Depreciation Value}$$

38
$$\$745.86 \times 1.7\% = \$12.68$$

39
40 **C- "Capital Carrying Cost" =>**

41
42
$$\text{NEC} \times \text{Weighted Average Cost of Capital (Before Tax)}$$

43
$$\$745.86 \times 8.49\% = \$63.32$$

1 **D- “Maintenance Lines and Forestry” =>**

2
3 Per Pole sum of Maintenance per year = \$ 82.41

4
5 Lines = Lines 2012 \$M, Line Patrols (\$8.65M) + Defect Correction (\$5.04M)
6 Total = \$13.69M divided by # of poles (1.73M) or \$7.91/pole for 2012

7
8 Forestry = Forestry 2012 \$M, Brush Control (\$34.7M) + Line Clearing (\$87.1M)
9 + Customer Notification (\$7.1M) =Total \$128.9M=> divided by # of poles
10 (1.73M) or \$74.50/pole for 2012

11
12 **E- “Total Capital Related Costs ” =>**

13
14 Equal to the sum of “B”+”C”+”D”

15
16 Depreciation per Pole (\$12.68) + Capital Carrying Cost per pole (\$63.32) +
17 Maintenance Lines and Forestry per pole (\$82.41) = \$158.41¹

18
19 **F- “Allocated Capital Cost” =>**

20
21 Equal to the sum of “E” (\$158.41) x 21.9% = \$34.69²

22
23
24 **G- “Loss of Productivity” =>**

25
26 Direct costs incurred by pole owner to maintain the pole and its facilities on the pole
27 due to the existence of the third party.

28
29 This cost is divided by the number of attachers (2.5). From RP-2003-0249,
30 “Appendix 2: 2.5 Attachers”, Hydro One’s Loss of Productivity was calculated by
31 using $\$3.08/2.5 = \1.23 per pole and inflating it by 3% per year for inflation

32
33 **H- “Administration” =>**

34
35 Direct costs incurred by pole owner, comprised of billing costs (i.e. disputes,
36 verifying pole counts, name changes, assignments of agreements) and costs to
37 administer the agreement (front office field staff and contract staff). From RP-2003-
38 0249, “Appendix 2:2.5 Attachers”, Hydro One’s rate was calculated by using \$0.69
39 per pole and inflating it by 3% per year for inflation.

¹ These are Indirect Costs.

² 21.9 % as per RP-2003-0249, “Appendix 2: Attachers”

1 **Ontario Energy Board (Board Staff) INTERROGATORY #2**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab5/Schedule1/Page 31

6
7 Hydro One indicates that in the calculation of the Joint Use Telecom Rate, a space
8 allocation of 21.9% is used to arrive at the Allocated Capital Cost.

- 9
10 a) How was this space allocation determined?
11 b) Why did the space allocation remain constant between the current rate and the
12 proposed rate?

13
14 **Response**

- 15
16 a) Hydro One used the space allocation factor that was approved for 2.5 attachers in
17 OEB Decision and Order RP-2003-0249 (March 7, 2005).
18 b) Hydro One elected to keep the space allocation consistent with the OEB's Decision
19 and Order RP-2003-0249.

1 **Sustainable Infrastructure Alliance of Ontario (SIA) INTERROGATORY #1**

2
3 **Interrogatory**

4
5 Ref: Exhibit G2, Tab 5, Schedule 1, page 31, Table 16

6
7 In its March 12, 2015 Decision in EB-2013-0416, the OEB approved rates for three
8 (2015-2017) of the five (2015-2019) years originally requested by HONI in its
9 application. Please confirm that as a result of this finding in the Decision, HONI would
10 only be seeking to set the pole attachment rate in this proceeding for these same three
11 years (2015-2017), rather than the full five (2015-2019) originally planned.

12
13 **Response**

14
15 Hydro One confirms it is only seeking pole attachment rates for the period 2015-2017.

1 **Sustainable Infrastructure Alliance of Ontario (SIA) INTERROGATORY #2**

2
3 **Interrogatory**

4
5 Ref: Exhibit G2, Tab 5, Schedule 1, page 31, Table 16

- 6
7 a) Please provide the basis of increase for each of the rate components listed in Table
8 16. That is, how specifically were the new values for 2015-2019 calculated.
9
10 b) For each of the items in a) above, please confirm whether the method of calculation
11 used by HONI is fully aligned with the methodology originally used in determining
12 each of these components in generating the \$22.35 rate in the CCTA Decision.
13
14 c) To the extent any component was calculated differently than in the CCTA Decision,
15 please explain the reason for the deviation from the CCTA Decision methodology.
16
17 d) Please explain the general reasons or cost drivers for the sizeable increase in the
18 maintenance component (\$7.61 to \$82.41) and the sizeable decrease in the
19 depreciation component (\$31.11 to \$12.68) between the \$22.35 CCTA Decision rate
20 and HONI's proposed 2015 rate.

21
22 **Response**

- 23
24 a) Please refer to the response in Exhibit I, Tab 1, Schedule 1 for the 2015 calculations.
25 For each subsequent year, the values were increased by 1%.
26
27 b) Please refer to the response in Exhibit I, Tab 1, Schedule 1. Hydro One confirms the
28 methodology used fully aligns with that used in determining each of the components
29 in generating the \$22.35 rate in the CCTA decision.
30
31 c) Hydro One employed the methodology used in the CCTA proceeding RP-2003-0249
32 before the OEB.
33
34 d) Please refer to the response in Exhibit I, Tab 1, Schedule 1 for the 2015 calculations
35 of all direct and indirect costs.

36
37 The components of the pole attachment rates in the CCTA Decision (RP-2003-0249)
38 were based on the Milton Hydro 1995 rates. The decrease in the depreciation
39 component results from Hydro One applying its 2012 actual rate. The increase in the
40 maintenance component is also based on Hydro One 2012 actuals.

1 **Sustainable Infrastructure Alliance of Ontario (SIA) INTERROGATORY #3**

2
3 **Interrogatory**

4
5 Ref: Exhibit G2, Tab 5, Schedule 1, page 31

6
7 HONI indicates that it is “increasing the rate by 1% for each year 2016 to 2019”.

- 8
9 a) Please explain the basis for the proposed 1% escalator.
- 10
11 b) Is this 1% escalator common with all of HONI’s other approved specific service
12 charges for 2016-2019?

13
14 **Response**

- 15
16 a) Please refer to Exhibit I Tab 7.08, Schedule 6 VECC 111 in EB-2013-0416. Hydro
17 One is proposing a 1% increase in the joint use rate from 2015-2017.
- 18
19 b) The 1% escalator was also applied to joint use fees for LDCs and Generator power
20 space.

1 **Sustainable Infrastructure Alliance of Ontario (SIA) INTERROGATORY #4**

2
3 **Interrogatory**

4
5 Ref: Exhibit G2, Tab 5, Schedule 1, page 31, Table 16

6
7 The SIA is interested in exploring the reasonability of the magnitude of the proposed
8 increase to the attachment rate by comparing it against generic benchmarks. For this
9 purpose:

- 10
11 a) What was HONI's percentage distribution rate increase over the 2005-2015 period?
12
13 b) What would be the value of the proposed 2015 pole attachment rate if the \$22.35 rate
14 were escalated by the same percentage as HONI's distribution rates in a) above?
15
16 c) What would be the value of the proposed 2015 pole attachment rate if the \$22.35 rate
17 were simply escalated by the approved OEB inflation factors in each of 2005-2015?
18

19 **Response**

- 20
21 a) Rates for all distributors were frozen from 2001 to 2005. Hydro One's approved rates
22 revenue requirement increased by 43.2% from 2006 (\$925.4M) to 2015 (\$1,325.6M).
23
24 b) If the proposed pole attachment rate of \$22.35 increased by 43.2%, it would be
25 \$32.01 in 2015.
26
27 c) The 2015 proposed pole attachment rate would be \$26.14 if escalated by the approved
28 OEB inflation factors from 2007 to 2015. This rate would not cover the costs
29 associated with Telecom Wireline attachments.

30
31 There were no OEB inflation factors for years 2005 and 2006 because the OEB used
32 a market adjustment rate of return in 2005 and a cost-of-service approach to
33 ratemaking in 2006. For consistency, the May inflation factor was used in our
34 calculations as the January inflation factor was only introduced in 2012.

1 **Sustainable Infrastructure Alliance of Ontario (SIA) INTERROGATORY #5**

2
3 **Interrogatory**

4
5 [Ref: Exhibit G2, Tab 5, Schedule 1, page 31, Table 16]

6
7 In applying the pole attachment rate to its customers, does HONI prorate it (e.g. for the
8 specific number of months or days an attachment is present on a pole) or is it applied
9 in full if any attachment is present on a HONI pole at any point during the year?

10
11 **Response**

12
13 The pole attachment rate is not prorated. Full annual rates are charged for all wireline
14 attachments in place between January and the end of June. Customers are not charged
15 for any wireline attachments first made in the second half of the year until the
16 following January, when the full annual rate is then invoiced for the upcoming year.

1 **Sustainable Infrastructure Alliance of Ontario (SIA) INTERROGATORY #6**

2
3 **Interrogatory**

4
5 Ref: Exhibit E1, Tab 1, Schedule 2, page 2, Table 1

- 6
7 a) Please confirm that the revenue collected under the current \$22.35 rate in each of
8 2011, 2012, 2013, 2014, and 2015 is shown under the "Joint Use" line in Table 1?
9 (i.e. \$6.4M, \$6.4M, \$6.5M, \$6.6M, and \$6.7M respectively) Alternatively, please
10 provide the correct values.
11
12 b) Please confirm that the revenue forecast to be collected under the proposed new rates
13 in each of 2016-2019 is also shown under the "Joint Use" line in Table 1? (i.e.
14 \$11.4M, \$11.7M, \$12.0M, \$12.4M, and \$12.7M respectively). Alternatively, please
15 provide the correct values.
16
17 c) For the values in a) and b) above, how many attachments did HONI have on its poles
18 in each of 2011-2015, and how many has it forecast for 2016-2019? Please provide
19 these values broken out into wireline and non-wireline attachments.
20
21 d) What would be the forecast amount of revenue for each of 2016-2019 if the wireline
22 rate were to remain unchanged at \$22.35?
23
24 e) Please provide the variance between forecast revenues under HONI's proposed rates
25 as confirmed in b) and the forecast revenues if the \$22.35 rate were to remain in place
26 as calculated in d).

27
28 **Response**

- 29
30 a) We confirm that the telecommunications revenue collected at \$22.35 is included
31 under the Joint Use line in Table 1. Table 1 includes all regulated joint use revenues.
32
33 b) We confirm that the new proposed rates for regulated revenue are included in Table 1
34 for years 2016 to 2019.
35
36 c) Please refer to the table below for the number of attachments Hydro One had on its
37 poles between 2011 and 2015. If "non-wireline" refers to wireless attachments, Hydro
38 One does not have any wireless attachments on its poles.

| | Historical Years | | | | Bridge Year | Test Years | | | | |
|-----------------|------------------|---------|---------|---------|-------------|------------|---------|---------|---------|---------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Telecom | 287,923 | 289,393 | 292,526 | 293,419 | 295,261 | 297,115 | 298,980 | 300,857 | 302,745 | 304,646 |
| Street Lighting | 84,880 | 84,880 | 105,842 | 105,842 | 105,842 | 105,842 | 105,842 | 105,842 | 105,842 | 105,842 |
| LDCs | 10,506 | 11,275 | 11,757 | 11,607 | 12,011 | 12,429 | 12,861 | 13,309 | 13,772 | 14,251 |

1
2
3
4
5

d) If the wireline fee remained at \$22.35, joint use revenues for 2016 to 2019 as set out in Exhibit E1, Tab 1, Schedule 2, page 2, Table 1 would be as follows:

| Joint Use Revenue | 2016 | 2017 | 2018 | 2019 |
|-------------------|--------|--------|--------|--------|
| | \$7.2M | \$7.3M | \$7.4M | \$7.6M |

6
7
8

e) The variances would be as follows:

| Joint Use Revenue Variance | 2016 | 2017 | 2018 | 2019 |
|----------------------------|--------|--------|------|--------|
| | \$4.5M | \$4.7M | \$5M | \$5.1M |

9

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #1**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31
6 EB-2013-0416, Updated Cost Allocation Model (June 2014)

- 7
8 a) Please provide the derivation of the \$745.86 2015 forecast net embedded cost per
9 distribution pole owned by Hydro One Networks (at the time of the Application).
10
11 b) Please indicate how the number of poles used in the calculation was determined.
12
13 c) Please provide an asset continuity schedule for the period January 1, 2013 through to
14 year end 2015 for Hydro One Distribution owned poles (i.e. OEB USOA #1830). As
15 part of the schedule, please indicate which values are actual as opposed to forecast.
16
17 d) Please show how the numerator used in the calculation of the \$745.86 reconciles with
18 the values provided in response to part c).
19
20 e) If the 2015 values used for the numerator differ from those reported in Hydro One
21 Networks Cost Allocation model (Tab I4, Row 40), please reconcile the differences.

22
23 **Response**

- 24
25 a) Please refer to the response in Exhibit I, Tab 1, Schedule 1.
26
27 b) Please refer to the response in Exhibit I, Tab 4, Schedule 4, part c.
28
29 c) Please refer to the response in Exhibit I, Tab 4, Schedule 4, part c.
30
31 d) Please refer to the response in Exhibit I, Tab 1, Schedule 1.
32
33 e) 2012 values were used.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #2**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31
6 EB-2013-0416, Updated Cost Allocation Model (June 2014)

- 7
8 a) Please provide the derivation of the \$12.68 Depreciation per Pole. Please reconcile
9 any differences between the 2015 depreciation expense used in this calculation and
10 the 2015 depreciation expense reported in the response to VECC #1, part c).
11
12 b) If the 2015 value used for the numerator differs from that reported in Hydro One
13 Networks Cost Allocation model (Tab I4, Row 40), please reconcile the differences.

14
15 **Response**

- 16
17 a) The derivation of the \$12.68 Depreciation per Pole is based on Hydro One 2012
18 actual numbers, not 2015 numbers, as explained in Exhibit I, Tab 1, Schedule 1.
19
20 b) A 2012 value was used for the numerator.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #3**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31

- 6
7 a) Please provide the derivation of the \$63.32 Capital Carrying cost.
8
9 b) Please reconcile the cost of capital used in the calculation with the cost of capital set
10 out in Exhibit B of the Application.
11
12 c) Does the value used for the cost of capital include a mark-up of ROE for income
13 taxes? If not, please re-do the calculation with this adjustment.

14
15 **Response**

- 16
17 a) Please refer to the response in Exhibit I, Tab 1, Schedule 1.
18
19 b) In the calculation for the proposed pole attachment rate, the cost of capital figure used
20 (8.49%) is the 2012 cost of capital before tax. In Exhibit B of the Application, the
21 cost of capital rate is the 2015 rate after tax (6.76%). Refer to Exhibit I, Tab 4,
22 Schedule 7, part a for the derivation of 8.49%.
23
24 c) The value of the cost of capital includes a mark-up of ROE for income taxes.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #4**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31
6 EB-2013-0416, Updated Cost Allocation Model (June 2014)

- 7
8 a) Please provide the derivation of the \$82.41 Maintenance cost per Pole.
9
10 b) What activities are included in the total Maintenance costs used in the numerator of
11 the calculation?
12
13 c) Does the value used for Maintenance costs include all of the costs for Maintenance as
14 reported in the Cost Allocation model (USOA #5120 - Tab I3, Row 392)? If not,
15 please explain.
16
17 d) Does the value used for Maintenance costs include any allocation of Administration
18 costs (Acct. 5615), Executive/Management costs (Acct. 5605/5610) or Maintenance
19 Supervision & Engineering Costs (Acct. 5105)?
20

21 **Response**

- 22
23 a) Please refer to the response in Exhibit I, Tab 1, Schedule 1.
24
25 b) Please refer to the response in Exhibit I, Tab 1, Schedule 1.
26
27 c) The methodology used to determine Maintenance Costs for Joint Use Rates was
28 based on specific work programs that were identified in the response to part a) and
29 part b) of this exhibit. While some of the costs for these work programs are
30 represented in USOA #5120, the account includes other work programs not used in
31 these calculations.
32
33 d) No values from Accounts 5615, 5605 or 5610 are included in Maintenance Costs.
34 Only a small portion of Account 5105 (e.g. the portion associated with the programs
35 referred in part b) is included in Maintenance Costs.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #5**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31-34 and page 38

- 6
7 a) Please confirm that the 21.9% space allocation factor used in the OEB decision was
8 based on the assumption there were 2.5 (non-utility) attachers per pole.
9
10 b) How many of Hydro One Networks' distribution poles have 3rd party attachers that
11 use the "communications "space".
12
13 c) What are the total number of 3rd party attachments on these poles that pay: i) the
14 OEB approved rate or ii) a different rate established via a separate
15 agreement/contract. In each please indicate who the parties are and the nature of their
16 attachments. Please reconcile the values provide with the volumes set out on page 38.
17
18 d) Based on the responses to parts b) and c), what are average number of attachers per
19 Hydro One Networks distribution pole that has attachments.
20
21 e) Are there any 3rd party attachers in the communications space that do not pay for an
22 attachment to Hydro One Networks poles? If so, who and why?
23
24 f) It is noted (page 32) that there are also other LDCs and generators that have power
25 line attachments to Hydro One Networks' distribution poles.
26 • How many LDCs and generators have attachments on poles that also have
27 attachments in the communications space?
28 • How many actual LDC/generator attachments does this represent?
29 • Are there any other attachments in the power space? If so, please outline
30 what they are and how many of such attachments are on poles that also
31 have attachments in the communications space.
32
33 g) Do any of the poles with attachments in the communications space also have Sentinel
34 Light attachments? If so, how many and these included in the responses provided to
35 parts (b), (c) and (f)?
36
37 h) Please provide a schedule that sets out the derivation of the communication space
38 allocation factor applicable to Hydro One Networks (equivalent to the 21.9% utilized

1 by the OEB), taking into account the number of 3rd party attachers using the
2 communication space and the number of 3rd party attachers (e.g. other LDCs and
3 generators) using the power space.

4
5 *Response*

6
7 a) Yes, this is confirmed. The assumption is 2.5 attachers in the communication space
8 on the pole.

9
10 b) Refer to Exhibit I, Tab 4, Schedule 1, part d. Hydro One has 115 wireline attachers
11 that have an executed agreement to use the communication space. Of those 115
12 wireline attachers there is 650,293 telecommunication wireline attachments. Hydro
13 One does not track poles that have “communication space attachers” only. The total
14 number of attachments on Hydro One poles for all attachers is 767,761. From a GIS
15 query performed Aug 24, 2015 there is currently 576,068 poles that contain “Joint
16 Use”. Therefore, the average number of attachers per pole will be $767,761/576,068 =$
17 1.3 attachers per Joint Use pole.

18
19 c)
20 (i) 319,055 is the total number of attachments that pay the Wireline Attachers OEB-
21 approved rate of \$22.35 to attach to the communication space on Hydro One’s poles.

22
23 (ii) regarding a different rate, than the OEB-approved rate of \$22.35, all
24 telecommunication companies that have an executed non-reciprocal agreement with
25 Hydro One that was established in 2006, current only pay \$16.76 (75% of \$22.35) for
26 an attachment on a service pole. That was established at the time and is a legacy
27 charge that moving forward in the next negotiated agreement will be changed to the
28 then approved OEB rate for telecommunication wireline attachments.

29
30 d) In its proposed rate calculation, Hydro One used the ratio adopted in the OEB
31 Decision and Order RP-2003-0249, which is 2.5 attachers per pole. Using the figures
32 provided in response b) above and in Exhibit I, Tab 4, Schedule 1, part d, there are
33 approximately 1.3 attachers per joint use pole on average.

34
35 e) None.

36
37 f) Hydro One has twelve Generator Companies that have 3,435 attachments in the
38 communication space. They pay the regulated rate of \$22.35. No LDCs have

1 attachments in the communication space. LDC Telecom affiliated companies have
2 attachments in the communication space and also pay the regulated rate of \$22.35.
3 Hydro One is not aware of LDC affiliate company relationships. Please refer to
4 Exhibit I, Tab 4, Schedule 1, part a, for the list of Generators and Wireline Attachments
5 connected in the communications space.
6

7 g) Hydro One policy states Sentinel lights are not allowed on Hydro One-owned poles
8 containing any attachment above 750V. Sentinel lights are primarily attached to
9 customer-owned poles or poles rented from Hydro One located on a customer's
10 property.
11

12 h) Please refer to the response for Exhibit I, Tab 1, Schedule 2.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #6**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31

- 6
7 a) What specific activities are included under Loss of Productivity?
8
9 b) For each of these activities please indicate how the costs associated with Loss of
10 Productivity were determined (including the numeric values used) and their
11 contribution to the overall value of \$1.51.

12
13 **Response**

- 14
15 a) Please refer to the response in Exhibit I, Tab 4, Schedule 10, part a.
16
17 b) Please refer to the response in Exhibit I, Tab 4, Schedule 10, part a.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #7**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31

- 6
7 a) What specific activities are included under Administration?
8
9 b) For each of these activities please indicate how the costs associated with
10 Administration were determined (including the numeric values used) and their
11 contribution to the overall value of \$0.85.

12
13 **Response**

- 14
15 a) Please refer to the response in Exhibit I, Tab 4, Schedule 9, part a.
16
17 b) Please refer to the response in Exhibit I, Tab 4, Schedule 9, part a.

1 **Vulnerable Energy Consumers Coalition (VECC) INTERROGATORY #8**

2
3 **Interrogatory**

4
5 Ref: EB-2013-0416, Exhibit G2/Tab 5/Schedule 1/page 31

6
7 a) Do any of the 2015 values used in Table 16 change as a result of the Board's
8 Decision re EB-2013-0416? If so, please indicate what the changes are and update
9 Table 16 accordingly.

10
11 **Response**

12
13 No. The OEB Decision in proceeding EB-2013-0416 has not affected any values in Table
14 16 of Exhibit G2, Tab 5, Schedule 1.

ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #1

Interrogatory

Ref: Exhibit G2, Tab 5, Schedule 1, p.31 of 40 (referred to herein as “Exhibit G2-5-1”)

- (a) Provide a list of the names of the Wireline Attachers that currently have Wireline Attachments on one or more Joint Use Poles. For each Wireline Attacher, indicate whether or not it pays the current OEB-approved Pole Attachment Fee of \$22.35 for all of its Wireline Attachments. If not, indicate what Pole Attachment Fee or other compensation, if any, it pays to Hydro One for its Wireline Attachments.
- (b) Provide a list of the names of Wireless Attachers that currently have Wireless Attachments on one or more Joint Use Poles. For each Wireless Attacher, indicate what Pole Attachment Fee or other compensation, if any, it pays to Hydro One for its Wireless Attachments.
- (c) Provide a list of the names of Other Attachers that currently have Other Attachments on one or more Joint Use Poles. For each Other Attacher, describe the types of Other Attachments it has installed and indicate what Pole Attachment Fee or other compensation, if any, it pays for its Other Attachments. If Hydro One does not track this information, please explain why, and, in any event, indicate what Pole Attachment Fee each Other Attacher pays to Hydro One.
- (d) Complete the table below with respect to revenues from Attachments to Joint Use Poles for each of the years 2012 to 2015 (i.e., actual revenues for 2012-14 and estimates for 2015. If there is a range of different Pole Attachment Fees for Other Attachers, then provide the revenues derived therefrom.

Table 1

| | 2012 | 2013 | 2014 | 2015 |
|--|---------|---------|---------|---------|
| Wireline Attachments | | | | |
| No. of Wireline Attachers | | | | |
| No. of Wireline Attachments | | | | |
| Pole Attachment Fee | \$22.35 | \$22.35 | \$37.05 | \$37.42 |
| Gross Revenues from Pole Attachment Fees (\$000) | | | | |
| Wireless Attachments | | | | |

| | 2012 | 2013 | 2014 | 2015 |
|--|------|------|------|------|
| No. of Wireless Attachers | | | | |
| No. of Wireless Attachments | | | | |
| Pole Attachment Fee | | | | |
| Gross Revenues from Pole Attachment Fees (\$000) | | | | |
| Other Attachments | | | | |
| No. of Other Attachers | | | | |
| No. of Other Attachments | | | | |
| Pole Attachment Fee | | | | |
| Gross Revenues from Pole Attachment Fees (\$000) | | | | |

- 1 (e) Please describe the kinds of Attachments and Attachers for which there is no Pole
 2 Attachment Fee payable. For each such kind of Attachment, explain why this is the
 3 case. For each kind of Attacher that does not pay a Pole Attachment Fee, explain
 4 why this is the case.
- 5 (f) Do you agree with the statement, “The owner of a joint-use pole should be entitled to
 6 recover the direct and indirect costs it incurs from third parties who use and occupy
 7 that pole”?
- 8 (g) Please confirm that the revenues, if any, derived from any Pole Attachment Fees in
 9 respect of Wireless Attachments and Other Attachments have not been considered or
 10 taken into account in Hydro One’s calculations for its proposed Wireline Pole
 11 Attachment Fee. If this is not the case, please explain how such revenues have been
 12 used in the calculations.
- 13 (h) On January 16, 2015, Hydro One provided its comments in respect of the Board’s
 14 December 11, 2014 Memorandum seeking comments on whether all electricity
 15 distributors should be able to charge market rates for Wireless Attachments (EB-
 16 2014-0365 - *Wireless Attachment Consultation*). In its comments, Hydro One stated
 17 that, while it supported this initiative, it wanted the flexibility to choose between
 18 implementing market rates or continuing with Board-approved cost-based rates,
 19 noting that regulated rates would be provide the most efficient and fair solution for
 20 areas with few, if any “competitors” to the local utilities for Attachments.

1 (i) Of the total population of Joint Use Poles, what percentage would Hydro One
 2 estimate would fall in areas with few, if any competitors to the local utilities for
 3 Attachments?

4 (ii) Of the Wireless Attachments currently installed on Joint Use Poles, how many
 5 would Hydro One estimate fall in areas with few, if any competitors to the local
 6 utilities for Attachments?

7 (i) Explain whether the Pole Attachment Fee for Wireline Attachers proposed by Hydro
 8 One will apply to:

9 (i) Wireless Attachments;

10 (ii) Other Attachers; or

11 (iii) poles operated or controlled by Hydro One but owned by third parties.

12 If it does not apply to any of above, provide the rates and charges that will apply.

13 (j) Has Hydro One installed any of its own Attachments or equipment within the
 14 communications space of the Joint Use Poles? If so, how many Joint Use Poles have
 15 such Attachments and describe the type of Attachments, as well as their purpose or
 16 service provided from those Attachments.

17 (k) What Pole Attachment Fee does Hydro One charge a Wireline Attacher to “overlash”
 18 its facilities to the Wireline Attachment of different Wireline Attacher (an “**Overlash**
 19 **Attachment**”)?

20 (l) Does the table in (d) include Overlash Attachments? Complete the table below with
 21 respect to revenues from Overlash Attachments to Joint Use Poles for each of the
 22 years 2012 to 2015 (i.e., actual revenues for 2012-14 and estimates for 2015).

23 **Table 2**

| | 2012 | 2013 | 2014 | 2015 |
|--|------|------|------|------|
| Overlash Attachments | | | | |
| No. of Overlash Attachers | | | | |
| No. of Overlash Attachments | | | | |
| Pole Attachment Fee | | | | |
| Gross Revenues from Pole Attachment Fees (\$000) | | | | |

1 (m) Is Hydro One aware of any plans by any entity which would significantly increase the
 2 number of Attachments on the Joint Use Poles (such as, for example, the recently
 3 announced plan by Bell Canada to install new fibre facilities on 80,000 poles in
 4 Toronto)? If so, please describe the plan and how many Joint Use Poles may be
 5 affected.

6 **Response**

7
 8 (a) Please see Attachment 1 for a list of all Wireline Attachers in the communication
 9 space with an executed Agreement for Licensed Occupancy of Power Utility
 10 Distribution Poles, which pay the OEB approved Pole Attachment Fee of \$22.35.

11
 12 (b) Hydro One does not have Wireless Attachments installed on Hydro One owned poles
 13 or any agreements in place to allow them.

14 (c) Municipalities have agreements with Hydro One to attach street and traffic lights to
 15 Hydro One-owned poles for the OEB-regulated price of \$2.04 per year per attachment.
 16 Please see Attachment 2 for the list of municipalities.

17 Generators and LDCs with wireline attachments on Hydro One-owned poles pay
 18 OEB approved rates. For 2014 the rate for LDCs was \$28.61 per pole. For 2015 to
 19 2017 the LDC and Generator rates are based on sliding scale for the amount of power
 20 space used. Refer to Exhibit G2, Tab 5, Schedule 1, Table 17 for LDC rates. Refer to
 21 Exhibit G2, Tab 5, Schedule 1, Table 18 for Generator rates. The names Generators
 22 are listed in Attachment 3 of this exhibit. The list of LDCs is found in Attachment 4.

23 (d)

| | 2012 | 2013 | 2014 | 2015 |
|--|---------|---------|---------|---------|
| Wireline Attachments | | | | |
| No. of Wireline Attachers | 89 | 90 | 93 | 115 |
| No. of Wireline Attachments | 605,181 | 611,869 | 612,259 | 650,293 |
| Pole Attachment Fee | \$22.35 | \$22.35 | \$22.35 | \$37.05 |
| Gross Revenues from Pole Attachment Fees (\$000) | \$6.4M | \$6.4M | \$6.5M | \$11.6M |
| Wireless Attachments | | | | |
| No. of Wireless Attachers | 0 | 0 | 0 | 0 |
| No. of Wireless Attachments | | | | |
| Pole Attachment Fee | | | | |

| | 2012 | 2013 | 2014 | 2015 |
|--|--|---|--|--|
| Gross Revenues from Pole Attachment Fees (\$000) | | | | |
| Other Attachments | | | | |
| No. of Other Attachers | 441 | 440 | 443 | 441 |
| No. of Other Attachments | LDC= 11757 Gen= 3274 Lights = 105842 Total =120873 | LDC= 11676 Gen= 3312 Lights = 93948 Total= 108936 | LDC= 11621 Gen= 3880 Lights = 99459 Total =114960 | LDC= 11729 Gen= 3880 Lights = 101859 Total =117468 |
| Pole Attachment Fee | LDC = \$28.61 Gen Power =(sliding scale) Lights = \$2.04 | LDC = \$28.61 Gen Power =(sliding scale) Lights = \$2.04 | LDC = \$28.61 Gen Power =(sliding scale) Lights = \$2.04 | LDC= (sliding scale) Gen Power =(sliding scale) Lights = \$2.04 |
| Gross Revenues from Pole Attachment Fees (\$000) | LDC= \$336367 Gen= \$96,845 Lights = \$215,918 Total = \$0.65M | LDC= \$334,050 Gen= \$117,388 Lights = \$ 191,654 Total = \$0.64M | LDC= \$332,476 Gen= \$118,016 Lights = \$202,897 Total = \$0.65M | LDC= \$549855 Gen= 220,195 Lights = 207,792 Total = \$0.98M |
| TOTAL REVENUE | \$7.05M | \$7.04M | \$7.15M | \$12.58M |

- 1
- 2 (e) Hydro One has Municipal owned decorative attachments (banners, flower pots,
 3 Christmas Lights) that do not pay Pole Attachment Fees. These attachments are small
 4 in numbers and often are only temporary attachments lasting the duration of a festival
 5 or a season. Others pay in accordance with reciprocal Joint Use Agreements.
- 6 (f) Yes
- 7 (g) Confirmed revenues not considered. The formula from OEB decision RP-2003-0249
 8 was used.
- 9 (h)
- 10 (i) Hydro One doesn't have Wireless Attachments on Joint Use poles. Therefore the
 11 criteria that may be used in the future to determine if market value or OEB-
 12 approved rates should be applied in a particular area has not been investigated.
- 13 (ii) Hydro One doesn't have Wireless Attachments on joint use poles.
- 14 (i)
- 15 (i) Hydro One doesn't have Wireless Attachments on joint use poles.
 16 (ii) Yes.

1 (iii) Hydro One operates Cat Lake Power and invoices attachers the regulated rate on
2 their behalf.

3 (j) Hydro One has no known attachments in the communications space. Hydro One
4 Telecom has attachments in the communications space, but as an affiliate, they have
5 an executed agreement and are charged the OEB approved rate to attach.

6 (k) Hydro One charges the same rate of \$22.35 to overlash as it does to attach.

7 (l) Yes, the table in (d) does include overlashed attachments. Hydro One does not track
8 overlashed attachments separately and is therefore cannot complete the table below.

9 **Table 2**

| | 2012 | 2013 | 2014 | 2015 |
|--|------|------|------|------|
| Overlash Attachments | | | | |
| No. of Overlash Attachers | | | | |
| No. of Overlash Attachments | | | | |
| Pole Attachment Fee | | | | |
| Gross Revenues from Pole Attachment Fees (\$000) | | | | |

10

11

12 (m) Currently Hydro One is not aware of any plans which would significantly increase
13 the number of attachments.

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List of Non-Reciprocal Telecommunication Agreements

| |
|---|
| 2197762 ONTARIO LTD, OPERATING AS FIBREXPRESS |
| 68812 ONTARIO INC. (VIANET) |
| ALBAN MASTER ANTENNA CO-OPERATIVE INC. |
| AMTELECOM CABLE INC. |
| AMTELECOM COMMUNICATIONS INC |
| ASCENT ENERGY SERVICES INC. |
| ASTROCOM CABLEVISION INC. |
| BH TELECOM CORP. |
| BARRETT XPLORE INC. |
| BELL ALIANT - CAT LAKE |
| BLUEWATER TV CABLE LTD. (TELECOM) |
| BONNECHERE CABLE 2009 |
| BRANTFORD HYDRO INC. (TELECOM) |
| BRANT MUNICIPAL ENTERPRISES INC. |
| BREAKER TECHNOLOGY LTD. |
| BROOKE TELECOM CO-OPERATIVE LTD |
| BRUCE MUNICIPAL TELEPHONE SYSTEMS (FIBRE CABLE) |
| BRUCE TELECOM |
| CABLE 1 ONTARIO INC. |
| CABLE CABLE INC. |
| CANADIAN P2P FIBRE SYSTEMS LTD. |
| CAT LAKE FIRST NATION |
| CENTRE WELLINGTON COMMUNICATIONS INC. (TELECOM) |
| COGECO CABLE CANADA INC. |
| COGECO DATA SERVICES INC. |
| COMMUNITY FIBRE COMPANY INC |
| CONSTANCE LAKE FIRST NATION |
| COUNTY OF OXFORD |
| EX-CEN CABLEVISION LTD. |
| EXECULINK CABLECOM INC. |
| EXECULINK TELECOM INC. |
| FCI BROADBAND |
| FCI COMMUNICATIONS |
| FESTIVAL HYDRO SERVICES INC. (TELECOM) |
| FIRST NATIONS CABLE INC. |
| GREATER SUDBURY TELECOMMUNICATIONS INC. |
| HASTINGS CABLE VISION LIMITED |
| HAY COMMUNICATIONS CO-OPERATIVE LIMITED |
| HCE TELECOM INC. |

| |
|--|
| HURON TELECOMMUNICATIONS CO-OPERATIVE LTD. |
| HYDRO ONE TELECOM |
| KAWARTHA PINE RIDGE DISTRICT SCHOOL BOARD |
| UTILITIES KINGSTON (TELECOM) |
| LAKELAND ENERGY LTD. |
| LONDON HYDRO INC. (TELECOM) |
| MANAGED NETWORK SYSTEMS INC. |
| MARKDALE CABLE TV (872580 ONTARIO INC) |
| MAXIMUM ISP |
| MINISTRY OF NATIONAL DEFENSE |
| MITCHELL-SEAFORTH CABLE T.V. LTD. |
| MOCREEBEC DEVELOPMENT CORP. LTD. |
| MOHAWKS OF THE BAY OF QUINTE |
| MONISYS INC. |
| MOOSE FACTORY CABLE INC. |
| MORNINGTON COMMUNICATIONS CO-OP LTD. |
| MOUNTAIN CABLEVISION LTD. |
| NEXICOM COMMUNICATIONS INC. |
| NEXICOM TELECOMMUNICATIONS INC. |
| NIAGARA REGIONAL BROADBAND NETWORK LTD. |
| NOR-DEL CABLEVISION LIMITED |
| NORFOLK ENERGY INC. (TELECOM) |
| NORTH FRONTENAC TELEPHONE COMPANY LTD. |
| NORTH LEEDS CABLECOM INC. |
| NORTH RENFREW TELEPHONE COMPANY LIMITED |
| ONTARIO POWER GENERATION INC. |
| ONTERA |
| OTTAWA RIVER ENERGY SOLUTIONS INC. (TELECOM) |
| PACKET-TEL CORP. |
| REGIONAL MUNICIPALITY OF PEEL |
| PEOPLE'S TELEPHONE CO OF FOREST INC. |
| PERSONA COMMUNICATIONS CORP |
| PERSONA COMMUNICATIONS CORP (REGIONAL CENTRAL) |
| ROGERS COMMUNICATIONS PARTNERSHIP |
| SHAW CABLESYSTEMS G.P. |
| SLATE FALLS FIRST NATION |
| SOURCE CABLE LIMITED |
| SOUTHCOTT PINES PARK ASSOCIATION |
| SPECTRUM TELECOM GROUP LTD. |
| TEKSAVVY SOLUTIONS INC. |

| |
|--|
| TELACOR (8064555 CANADA CORP) |
| TELUS COMMUNICATIONS COMPANY |
| TERRA INTERNATIONAL (CANADA), INC. |
| THE CORPORATION OF THE COUNTY OF PRINCE EDWARD |
| THE CORPORATION OF THE TOWN OF ORANGEVILLE |
| THE CORPORATION OF THE TOWN OF CALEDON |
| THE UNIVERSITY OF WESTERN ONTARIO |
| TOWNSHIP OF PICKLE LAKE |
| TUCKERSMITH COMMUNICATIONS CO-OP LIMITED |
| UPPER CANADA DISTRICT SCHOOL BOARD |
| VERIDIAN ENERGY INC. |
| VIDEOTRON (LAURENTIEN) LTEE |
| VIDEOTRON TELECOM |
| WALPOLE ISLAND FIRST NATION |
| WESTPORT TELEPHONE COMPANY LIMITED |
| WIGHTMAN TELEPHONE LIMITED |
| WIREIE HOLDINGS INTERNATIONAL INC |
| XITTEL TELECOMMUNICATIONS INC. |
| YORK, THE REGIONAL MUNICIPALITY OF |

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List of Reciprocal Telecommunication Agreements

| |
|---|
| BELL CANADA |
| LANSDOWNE RURAL TELEPHONE COMPANY LIMITED |
| NORTHERN TEL, LIMITED PARTNERSHIP |
| THUNDER BAY TELEPHONE |

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List of Telecommunication Agreements with Generators

| |
|---|
| AIM HARROW WIND FARM LP |
| AIM SOP PHASE 1 LP |
| COMBER WIND LIMITED PARTNERSHIP |
| CP RENEWABLE ENERGY (KINGSBRIDGE) LP |
| ENBRIDGE ONT. WIND POWER LP |
| GREENFIELD SOUTH POWER CORPORATION |
| GOSFIELD WIND LTD PARTNERSHIP |
| KRUGER ENERGY CHATHAM LIMITED PARTNERSHIP |
| KRUGER ENERGY PORT ALMA LIMITED PARTNERSHIP |
| PLATEAU WIND INC. |
| POINTE-AUX-ROCHES WIND LP |
| RALEIGH WIND POWER PARTNERSHIP |

5

1 **Listing of All Municipal Attachment Agreements**

| |
|---|
| ALDERVILLE FIRST NATION |
| ALGONQUINS OF PIKWAKANAGAN |
| ANISHINAABEG OF NAONGASHIING |
| AROLAND FIRST NATION |
| AUNDECK OMNI KANING FIRST NATION |
| BEAUSOLEIL FIRST NATION |
| BIG GRASSY RIVER FIRST NATION |
| BIINJITIWAABIK ZAAZING ANISHINAABEK |
| BRUNSWICK HOUSE FIRST NATION |
| CHAPLEAU CREE FIRST NATION |
| CHIPPEWAS OF GEORGINA ISLAND FIRST NATION |
| CHIPPEWAS OF THE THAMES |
| CITY OF HAMILTON |
| CITY OF OTTAWA |
| CONSTANCE LAKE FIRST NATION |
| COUCHICHING FIRST NATION |
| CURVE LAKE FIRST NATION |
| DELAWARE NATION |
| DOKIS FIRST NATION |
| GINOGAMING FIRST NATION |
| GRASSY NARROWS FIRST NATION |
| HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENSE |
| LAC SEUL FIRST NATION |
| LINCOLN PARK INC |
| LONG LAKE #58 |
| MATACHEWAN FIRST NATION |
| MATTAGAMI FIRST NATION |
| M'CHIGEENG FIRST NATION |
| MISHKEEGOGAMANG FIRST NATION |
| MISSISSAUGAS OF SCUGOG ISLAND FIRST NATION |
| MISSISSAUGAS OF THE NEW CREDIT FIRST NATION |
| MOOSE CREE FIRST NATION |
| NAOTKAMEGWINNING FIRST NATION |
| NICICKOUSEMENECANING FIRST NATION |
| NIPISSING FIRST NATION |
| OJIBWAYS OF THE PIC RIVER FIRST NATION |
| PAYS PLAT FIRST NATION |
| PIC MOBERT FIRST NATION |
| QUINTE HEALTH CARE |

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| RAINY RIVER FIRST NATION |
| SAGAMOK ANISHNAWBEK FIRST NATION |
| SAUGEEN FIRST NATION #29 |
| SERPENT RIVER FIRST NATION |
| SHEGUIANDAH FIRST NATION |
| SLATE FALLS FIRST NATION |
| STANJIKOMING FIRST NATION |
| TAYKWA TAGAMOU NATION |
| THE CITY OF GREATER SUDBURY |
| THE CORPORATION OF LOYALIST TOWNSHIP |
| THE CORPORATION OF THE CITY OF BARRIE |
| THE CORPORATION OF THE CITY OF BELLEVILLE |
| THE CORPORATION OF THE CITY OF BROCKVILLE |
| THE CORPORATION OF THE CITY OF CLARENCE - ROCKLAND |
| THE CORPORATION OF THE CITY OF CORNWALL |
| THE CORPORATION OF THE CITY OF DRYDEN |
| THE CORPORATION OF THE CITY OF ELLIOT LAKE |
| THE CORPORATION OF THE CITY OF KAWARTHA LAKES |
| THE CORPORATION OF THE CITY OF KENORA |
| THE CORPORATION OF THE CITY OF KINGSTON |
| THE CORPORATION OF THE CITY OF OSHAWA |
| THE CORPORATION OF THE CITY OF OWEN SOUND |
| THE CORPORATION OF THE CITY OF QUINTE WEST |
| THE CORPORATION OF THE CITY OF ST. THOMAS |
| THE CORPORATION OF THE CITY OF THOROLD |
| THE CORPORATION OF THE CITY OF TIMMINS |
| THE CORPORATION OF THE CITY OF WINDSOR |
| THE CORPORATION OF THE COUNTY OF BRANT |
| THE CORPORATION OF THE COUNTY OF DUFFERIN |
| THE CORPORATION OF THE COUNTY OF ELGIN |
| THE CORPORATION OF THE COUNTY OF ESSEX |
| THE CORPORATION OF THE COUNTY OF GREY |
| THE CORPORATION OF THE COUNTY OF HALIBURTON |
| THE CORPORATION OF THE COUNTY OF HURON |
| THE CORPORATION OF THE COUNTY OF LAMBTON |
| THE CORPORATION OF THE COUNTY OF LANARK |
| THE CORPORATION OF THE COUNTY OF MIDDLESEX |
| THE CORPORATION OF THE COUNTY OF NORFOLK |
| THE CORPORATION OF THE COUNTY OF NORTHUMBERLAND |
| THE CORPORATION OF THE COUNTY OF OXFORD |

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|---|
| THE CORPORATION OF THE COUNTY OF PERTH |
| THE CORPORATION OF THE COUNTY OF PETERBOROUGH |
| THE CORPORATION OF THE COUNTY OF PRINCE EDWARD |
| THE CORPORATION OF THE COUNTY OF WELLINGTON |
| THE CORPORATION OF THE MUNICIPALITY OF ARRAN - ELDERSLIE |
| THE CORPORATION OF THE MUNICIPALITY OF BAYHAM |
| THE CORPORATION OF THE MUNICIPALITY OF BILLINGS |
| THE CORPORATION OF THE MUNICIPALITY OF BRIGHTON |
| THE CORPORATION OF THE MUNICIPALITY OF BROCKTON |
| THE CORPORATION OF THE MUNICIPALITY OF CALLANDER |
| THE CORPORATION OF THE MUNICIPALITY OF CENTRAL ELGIN |
| THE CORPORATION OF THE MUNICIPALITY OF CENTRAL HURON |
| THE CORPORATION OF THE MUNICIPALITY OF CENTRE HASTINGS |
| THE CORPORATION OF THE MUNICIPALITY OF CHARLTON AND DACK |
| THE CORPORATION OF THE MUNICIPALITY OF CHATHAM - KENT |
| THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON |
| THE CORPORATION OF THE MUNICIPALITY OF DUTTON - DUNWICH |
| THE CORPORATION OF THE MUNICIPALITY OF FRENCH RIVER |
| THE CORPORATION OF THE MUNICIPALITY OF GREENSTONE |
| THE CORPORATION OF THE MUNICIPALITY OF GREY HIGHLANDS |
| THE CORPORATION OF THE MUNICIPALITY OF HASTINGS HIGHLANDS |
| THE CORPORATION OF THE MUNICIPALITY OF HIGHLANDS EAST |
| THE CORPORATION OF THE MUNICIPALITY OF HURON EAST |
| THE CORPORATION OF THE MUNICIPALITY OF HURON SHORES |
| THE CORPORATION OF THE MUNICIPALITY OF KILLARNEY |
| THE CORPORATION OF THE MUNICIPALITY OF KINCARDINE |
| THE CORPORATION OF THE MUNICIPALITY OF LAMBTON SHORES |
| THE CORPORATION OF THE MUNICIPALITY OF LEAMINGTON |
| THE CORPORATION OF THE MUNICIPALITY OF MARKSTAY - WARREN |
| THE CORPORATION OF THE MUNICIPALITY OF MARMORA AND LAKE |
| THE CORPORATION OF THE MUNICIPALITY OF MCDOUGALL |
| THE CORPORATION OF THE MUNICIPALITY OF MEAFORD |
| THE CORPORATION OF THE MUNICIPALITY OF MORRIS - TURNBERRY |
| THE CORPORATION OF THE MUNICIPALITY OF NEEBING |
| THE CORPORATION OF THE MUNICIPALITY OF NORTH GRENVILLE |
| THE CORPORATION OF THE MUNICIPALITY OF NORTH MIDDLESEX |
| THE CORPORATION OF THE MUNICIPALITY OF NORTHERN BRUCE PENINSULA |
| THE CORPORATION OF THE MUNICIPALITY OF PORT HOPE |
| THE CORPORATION OF THE MUNICIPALITY OF POWASSAN |
| THE CORPORATION OF THE MUNICIPALITY OF RED LAKE |

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| THE CORPORATION OF THE MUNICIPALITY OF SOUTH BRUCE |
| THE CORPORATION OF THE MUNICIPALITY OF SOUTH HURON |
| THE CORPORATION OF THE MUNICIPALITY OF SOUTHWEST MIDDLESEX |
| THE CORPORATION OF THE MUNICIPALITY OF ST. CHARLES |
| THE CORPORATION OF THE MUNICIPALITY OF TEMAGAMI |
| THE CORPORATION OF THE MUNICIPALITY OF THAMES CENTRE |
| THE CORPORATION OF THE MUNICIPALITY OF TRENT HILLS |
| THE CORPORATION OF THE MUNICIPALITY OF TWEED |
| THE CORPORATION OF THE MUNICIPALITY OF WEST ELGIN |
| THE CORPORATION OF THE MUNICIPALITY OF WEST GREY |
| THE CORPORATION OF THE MUNICIPALITY OF WEST NIPISSING |
| THE CORPORATION OF THE MUNICIPALITY OF WEST PERTH |
| THE CORPORATION OF THE NATION MUNICIPALITY |
| THE CORPORATION OF THE REGIONAL MUNICIPALITY OF DURHAM |
| THE CORPORATION OF THE REGIONAL MUNICIPALITY OF YORK |
| THE CORPORATION OF THE TOWN OF AMHERSTBURG |
| THE CORPORATION OF THE TOWN OF ARNPRIOR |
| THE CORPORATION OF THE TOWN OF AURORA |
| THE CORPORATION OF THE TOWN OF BANCROFT |
| THE CORPORATION OF THE TOWN OF BLIND RIVER |
| THE CORPORATION OF THE TOWN OF BRACEBRIDGE |
| THE CORPORATION OF THE TOWN OF BRADFORD WEST GWILLIMBURY |
| THE CORPORATION OF THE TOWN OF CALEDON |
| THE CORPORATION OF THE TOWN OF COBALT |
| THE CORPORATION OF THE TOWN OF COCHRANE |
| THE CORPORATION OF THE TOWN OF DEEP RIVER |
| THE CORPORATION OF THE TOWN OF DESERONTO |
| THE CORPORATION OF THE TOWN OF EAST GWILLIMBURY |
| THE CORPORATION OF THE TOWN OF ENGLEHART |
| THE CORPORATION OF THE TOWN OF ERIN |
| THE CORPORATION OF THE TOWN OF ESSEX |
| THE CORPORATION OF THE TOWN OF GEORGINA |
| THE CORPORATION OF THE TOWN OF GORE BAY |
| THE CORPORATION OF THE TOWN OF GRAVENHURST |
| THE CORPORATION OF THE TOWN OF GREATER NAPANEE |
| THE CORPORATION OF THE TOWN OF HEARST |
| THE CORPORATION OF THE TOWN OF HUNTSVILLE |
| THE CORPORATION OF THE TOWN OF INGERSOLL |
| THE CORPORATION OF THE TOWN OF IROQUOIS FALLS |
| THE CORPORATION OF THE TOWN OF KAPUSKASING |

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|--|
| THE CORPORATION OF THE TOWN OF KEARNEY |
| THE CORPORATION OF THE TOWN OF KINGSVILLE |
| THE CORPORATION OF THE TOWN OF KIRKLAND LAKE |
| THE CORPORATION OF THE TOWN OF LAKESHORE |
| THE CORPORATION OF THE TOWN OF LASALLE |
| THE CORPORATION OF THE TOWN OF LATCHFORD |
| THE CORPORATION OF THE TOWN OF LAURENTIAN HILLS |
| THE CORPORATION OF THE TOWN OF MARATHON |
| THE CORPORATION OF THE TOWN OF MIDLAND |
| THE CORPORATION OF THE TOWN OF MINTO |
| THE CORPORATION OF THE TOWN OF MISSISSIPPI MILLS |
| THE CORPORATION OF THE TOWN OF MONO |
| THE CORPORATION OF THE TOWN OF MOOSONEE |
| THE CORPORATION OF THE TOWN OF NEW TECUMSETH |
| THE CORPORATION OF THE TOWN OF NEWMARKET |
| THE CORPORATION OF THE TOWN OF NORTH PERTH |
| THE CORPORATION OF THE TOWN OF NORTHEASTERN MANITOULIN AND THE ISLANDS |
| THE CORPORATION OF THE TOWN OF PELHAM |
| THE CORPORATION OF THE TOWN OF PENETANGUISHENE |
| THE CORPORATION OF THE TOWN OF PERTH |
| THE CORPORATION OF THE TOWN OF PETAWAWA |
| THE CORPORATION OF THE TOWN OF PLYMPTON - WYOMING |
| THE CORPORATION OF THE TOWN OF RAINY RIVER |
| THE CORPORATION OF THE TOWN OF RICHMOND HILL |
| THE CORPORATION OF THE TOWN OF SAUGEEN SHORES |
| THE CORPORATION OF THE TOWN OF SHELBURNE |
| THE CORPORATION OF THE TOWN OF SMITHS FALLS |
| THE CORPORATION OF THE TOWN OF SMOOTH ROCK FALLS |
| THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA |
| THE CORPORATION OF THE TOWN OF TECUMSEH |
| THE CORPORATION OF THE TOWN OF THE BLUE MOUNTAINS |
| THE CORPORATION OF THE TOWN OF THESSALON |
| THE CORPORATION OF THE TOWN OF WHITCHURCH - STOUFFVILLE |
| THE CORPORATION OF THE TOWNSHIP OF ADDINGTON HIGHLANDS |
| THE CORPORATION OF THE TOWNSHIP OF ADELAIDE METCALFE |
| THE CORPORATION OF THE TOWNSHIP OF ADMASTON/BROMLEY |
| THE CORPORATION OF THE TOWNSHIP OF ALFRED AND PLANTAGENET |
| THE CORPORATION OF THE TOWNSHIP OF ALGONQUIN HIGHLANDS |
| THE CORPORATION OF THE TOWNSHIP OF ALNWICK/HALDIMAND |
| THE CORPORATION OF THE TOWNSHIP OF AMARANTH |

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| THE CORPORATION OF THE TOWNSHIP OF ARMOUR |
| THE CORPORATION OF THE TOWNSHIP OF ARMSTRONG |
| THE CORPORATION OF THE TOWNSHIP OF ASHFIELD - COLBORNE - WAWANOSH |
| THE CORPORATION OF THE TOWNSHIP OF ASPHODEL - NORWOOD |
| THE CORPORATION OF THE TOWNSHIP OF ASSIGINACK |
| THE CORPORATION OF THE TOWNSHIP OF ATHENS |
| THE CORPORATION OF THE TOWNSHIP OF AUGUSTA |
| THE CORPORATION OF THE TOWNSHIP OF BECKWITH |
| THE CORPORATION OF THE TOWNSHIP OF BLACK RIVER - MATHESON |
| THE CORPORATION OF THE TOWNSHIP OF BLANDFORD - BLENHEIM |
| THE CORPORATION OF THE TOWNSHIP OF BONFIELD |
| THE CORPORATION OF THE TOWNSHIP OF BONNECHERE VALLEY |
| THE CORPORATION OF THE TOWNSHIP OF BROCK |
| THE CORPORATION OF THE TOWNSHIP OF BROOKE - ALVINSTON |
| THE CORPORATION OF THE TOWNSHIP OF BRUDENELL, LYNDOSCH AND RAGLAN |
| THE CORPORATION OF THE TOWNSHIP OF CARLING |
| THE CORPORATION OF THE TOWNSHIP OF CASEY |
| THE CORPORATION OF THE TOWNSHIP OF CAVAN - MILLBROOK - NORTH MONAGHAN |
| THE CORPORATION OF THE TOWNSHIP OF CENTRAL FRONTENAC |
| THE CORPORATION OF THE TOWNSHIP OF CENTRAL MANITOULIN |
| THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON |
| THE CORPORATION OF THE TOWNSHIP OF CHAMPLAIN |
| THE CORPORATION OF THE TOWNSHIP OF CHAPPLE |
| THE CORPORATION OF THE TOWNSHIP OF CLEARVIEW |
| THE CORPORATION OF THE TOWNSHIP OF COCKBURN ISLAND |
| THE CORPORATION OF THE TOWNSHIP OF COLEMAN |
| THE CORPORATION OF THE TOWNSHIP OF CRAMAHE |
| THE CORPORATION OF THE TOWNSHIP OF DAWN - EUPHEMIA |
| THE CORPORATION OF THE TOWNSHIP OF DAWSON |
| THE CORPORATION OF THE TOWNSHIP OF DOURO - DUMMER |
| THE CORPORATION OF THE TOWNSHIP OF DRUMMOND/NORTH ELMSLEY |
| THE CORPORATION OF THE TOWNSHIP OF DYSART ET AL |
| THE CORPORATION OF THE TOWNSHIP OF EAR FALLS |
| THE CORPORATION OF THE TOWNSHIP OF EAST FERRIS |
| THE CORPORATION OF THE TOWNSHIP OF EAST GARAFRAXA |
| THE CORPORATION OF THE TOWNSHIP OF EAST HAWKESBURY |
| THE CORPORATION OF THE TOWNSHIP OF EAST LUTHER GRAND VALLEY |
| THE CORPORATION OF THE TOWNSHIP OF EAST ZORRA - TAVISTOCK |
| THE CORPORATION OF THE TOWNSHIP OF EDWARDSBURGH/CARDINAL |
| THE CORPORATION OF THE TOWNSHIP OF ELIZABETHTOWN - KITLEY |

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| THE CORPORATION OF THE TOWNSHIP OF EMO |
| THE CORPORATION OF THE TOWNSHIP OF ENNISKILLEN |
| THE CORPORATION OF THE TOWNSHIP OF ESSA |
| THE CORPORATION OF THE TOWNSHIP OF FAUQUIER - STRICKLAND |
| THE CORPORATION OF THE TOWNSHIP OF FRONTENAC ISLANDS |
| THE CORPORATION OF THE TOWNSHIP OF GALWAY - CAVENDISH - HARVEY |
| THE CORPORATION OF THE TOWNSHIP OF GAUTHIER |
| THE CORPORATION OF THE TOWNSHIP OF GEORGIAN BAY |
| THE CORPORATION OF THE TOWNSHIP OF GEORGIAN BLUFFS |
| THE CORPORATION OF THE TOWNSHIP OF GILLIES |
| THE CORPORATION OF THE TOWNSHIP OF GREATER MADAWASKA |
| THE CORPORATION OF THE TOWNSHIP OF HAMILTON |
| THE CORPORATION OF THE TOWNSHIP OF HAVELOCK - BELMONT - METHUEN |
| THE CORPORATION OF THE TOWNSHIP OF HORNEPAYNE |
| THE CORPORATION OF THE TOWNSHIP OF HORTON |
| THE CORPORATION OF THE TOWNSHIP OF HOWICK |
| THE CORPORATION OF THE TOWNSHIP OF HURON - KINLOSS |
| THE CORPORATION OF THE TOWNSHIP OF IGNACE |
| THE CORPORATION OF THE TOWNSHIP OF JAMES |
| THE CORPORATION OF THE TOWNSHIP OF KILLALOE, HAGARTY AND RICHARDS |
| THE CORPORATION OF THE TOWNSHIP OF KING |
| THE CORPORATION OF THE TOWNSHIP OF LAKE OF BAYS |
| THE CORPORATION OF THE TOWNSHIP OF LANARK HIGHLANDS |
| THE CORPORATION OF THE TOWNSHIP OF LARDER LAKE |
| THE CORPORATION OF THE TOWNSHIP OF LAURENTIAN VALLEY |
| THE CORPORATION OF THE TOWNSHIP OF LEEDS AND THE THOUSAND ISLANDS |
| THE CORPORATION OF THE TOWNSHIP OF LUCAN BIDDULPH |
| THE CORPORATION OF THE TOWNSHIP OF MACHIN |
| THE CORPORATION OF THE TOWNSHIP OF MADAWASKA VALLEY |
| THE CORPORATION OF THE TOWNSHIP OF MADOC |
| THE CORPORATION OF THE TOWNSHIP OF MAGNETAWAN |
| THE CORPORATION OF THE TOWNSHIP OF MALAHIDE |
| THE CORPORATION OF THE TOWNSHIP OF MANITOUWADGE |
| THE CORPORATION OF THE TOWNSHIP OF MAPLETON |
| THE CORPORATION OF THE TOWNSHIP OF MATACHEWAN |
| THE CORPORATION OF THE TOWNSHIP OF MCGARRY |
| THE CORPORATION OF THE TOWNSHIP OF MCKELLAR |
| THE CORPORATION OF THE TOWNSHIP OF MCKERROW BALDWIN |
| THE CORPORATION OF THE TOWNSHIP OF MCMURRICH/MONTEITH |
| THE CORPORATION OF THE TOWNSHIP OF MCNAB/BRAESIDE |

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| THE CORPORATION OF THE TOWNSHIP OF MELANCTHON |
| THE CORPORATION OF THE TOWNSHIP OF MINDEN HILLS |
| THE CORPORATION OF THE TOWNSHIP OF MONTAGUE |
| THE CORPORATION OF THE TOWNSHIP OF MOONBEAM |
| THE CORPORATION OF THE TOWNSHIP OF MORLEY |
| THE CORPORATION OF THE TOWNSHIP OF MULMUR |
| THE CORPORATION OF THE TOWNSHIP OF MUSKOKA LAKES |
| THE CORPORATION OF THE TOWNSHIP OF NAIRN AND HYMAN |
| THE CORPORATION OF THE TOWNSHIP OF NIPIGON |
| THE CORPORATION OF THE TOWNSHIP OF NIPISSING |
| THE CORPORATION OF THE TOWNSHIP OF NORTH ALGONA WILBERFORCE |
| THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS |
| THE CORPORATION OF THE TOWNSHIP OF NORTH FRONTENAC |
| THE CORPORATION OF THE TOWNSHIP OF NORTH GLENGARRY |
| THE CORPORATION OF THE TOWNSHIP OF NORTH HURON |
| THE CORPORATION OF THE TOWNSHIP OF NORTH KAWARTHA |
| THE CORPORATION OF THE TOWNSHIP OF NORTH STORMONT |
| THE CORPORATION OF THE TOWNSHIP OF NORWICH |
| THE CORPORATION OF THE TOWNSHIP OF O'CONNOR |
| THE CORPORATION OF THE TOWNSHIP OF OPASATIKA |
| THE CORPORATION OF THE TOWNSHIP OF ORO - MEDONTE |
| THE CORPORATION OF THE TOWNSHIP OF OTONABEE - SOUTH MONAGHAN |
| THE CORPORATION OF THE TOWNSHIP OF PAPINEAU - CAMERON |
| THE CORPORATION OF THE TOWNSHIP OF PELEE |
| THE CORPORATION OF THE TOWNSHIP OF PERRY |
| THE CORPORATION OF THE TOWNSHIP OF PERTH EAST |
| THE CORPORATION OF THE TOWNSHIP OF PERTH SOUTH |
| THE CORPORATION OF THE TOWNSHIP OF PICKLE LAKE |
| THE CORPORATION OF THE TOWNSHIP OF PUSLINCH |
| THE CORPORATION OF THE TOWNSHIP OF RAMARA |
| THE CORPORATION OF THE TOWNSHIP OF RIDEAU LAKES |
| THE CORPORATION OF THE TOWNSHIP OF RUSSELL |
| THE CORPORATION OF THE TOWNSHIP OF SABLES - SPANISH RIVERS |
| THE CORPORATION OF THE TOWNSHIP OF SCHREIBER |
| THE CORPORATION OF THE TOWNSHIP OF SCUGOG |
| THE CORPORATION OF THE TOWNSHIP OF SEGUIN |
| THE CORPORATION OF THE TOWNSHIP OF SEVERN |
| THE CORPORATION OF THE TOWNSHIP OF SHEDDEN |
| THE CORPORATION OF THE TOWNSHIP OF SHUNIAH |
| THE CORPORATION OF THE TOWNSHIP OF SIOUX NARROWS - NESTOR FALLS |

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| THE CORPORATION OF THE TOWNSHIP OF SMITH - ENNISMORE - LAKEFIELD |
| THE CORPORATION OF THE TOWNSHIP OF SOUTH ALGONQUIN |
| THE CORPORATION OF THE TOWNSHIP OF SOUTH DUNDAS |
| THE CORPORATION OF THE TOWNSHIP OF SOUTH FRONTENAC |
| THE CORPORATION OF THE TOWNSHIP OF SOUTH GLENGARRY |
| THE CORPORATION OF THE TOWNSHIP OF SOUTH STORMONT |
| THE CORPORATION OF THE TOWNSHIP OF SOUTHGATE |
| THE CORPORATION OF THE TOWNSHIP OF SOUTHWOLD |
| THE CORPORATION OF THE TOWNSHIP OF SPRINGWATER |
| THE CORPORATION OF THE TOWNSHIP OF ST. CLAIR |
| THE CORPORATION OF THE TOWNSHIP OF STIRLING - RAWDON |
| THE CORPORATION OF THE TOWNSHIP OF STONE MILLS |
| THE CORPORATION OF THE TOWNSHIP OF STRATHROY - CARADOC |
| THE CORPORATION OF THE TOWNSHIP OF STRONG |
| THE CORPORATION OF THE TOWNSHIP OF TAY |
| THE CORPORATION OF THE TOWNSHIP OF TAY VALLEY |
| THE CORPORATION OF THE TOWNSHIP OF TEHKUMMAH |
| THE CORPORATION OF THE TOWNSHIP OF TERRACE BAY |
| THE CORPORATION OF THE TOWNSHIP OF THE NORTH SHORE |
| THE CORPORATION OF THE TOWNSHIP OF TINY |
| THE CORPORATION OF THE TOWNSHIP OF TYENDINAGA |
| THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE |
| THE CORPORATION OF THE TOWNSHIP OF VAL RITA - HARTY |
| THE CORPORATION OF THE TOWNSHIP OF WAINFLEET |
| THE CORPORATION OF THE TOWNSHIP OF WARWICK |
| THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH |
| THE CORPORATION OF THE TOWNSHIP OF WHITE RIVER |
| THE CORPORATION OF THE TOWNSHIP OF WHITEWATER REGION |
| THE CORPORATION OF THE TOWNSHIP OF WOLLASTON |
| THE CORPORATION OF THE TOWNSHIP OF ZORRA |
| THE CORPORATION OF THE UNITED COUNTIES OF LEEDS AND GRENVILLE |
| THE CORPORATION OF THE UNITED COUNTIES OF PRESCOTT AND RUSSELL |
| THE CORPORATION OF THE UNITED COUNTIES OF STORMONT, DUNDAS AND GLEN ROBERTSON |
| THE CORPORATION OF THE VILLAGE OF MERRICKVILLE - WOLFORD |
| THE CORPORATION OF THE VILLAGE OF SOUTH RIVER |
| THE CORPORATION OF THE VILLAGE OF THORNLOE |
| THESSALON FIRST NATION |
| WABASEMOONG INDEPENDENT NATIONS |
| WAHGOSHIG FIRST NATION |
| WAHNAPITAE FIRST NATION |

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| WAHTA MOHAWKS FIRST NATION |
| WALPOLE ISLAND FIRST NATION |
| WASAUKSING FIRST NATION |
| WHITEFISH LAKE FIRST NATION |

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2

1 **List of Generators that have Agreements for Power Space**

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| AIM HARROW WIND FARM LP |
| AIM SOP PHASE I LP |
| CP RENEWABLE ENERGY (KINGSBRIDGE) LP |
| CLARINGTON WIND POWER LP |
| COMBER WIND LIMITED PARTNERSHIP |
| CONESTOGO WIND LP |
| ENBRIDGE RENEWABLE ENERGY INFRASTRUCTURE LTD |
| GOSFIELD WIND LIMITED PARTNERSHIP |
| KRUGER ENERGY CHATHAM LIMITED PARTNERSHIP |
| KRUGER ENERGY PORT ALMA LIMITED PARTNERSHIP |
| PLATEAU WIND LP |
| POINTE-AUX-ROCHES WIND LP |
| QUIXOTE ONE WIND ENERGY CORP. |
| RALEIGH WIND POWER PARTNERSHIP |
| SCHNEIRDER POWER INC. |
| SUNE RUTLEY LP |

3

1 **List of Local Distribution Companies that have Agreements with Hydro One**
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| BLUEWATER POWER DISTRIBUTION |
| BRANT COUNTY POWER |
| BRANTFORD POWER INC |
| BURLINGTON HYDRO INC. |
| CAMBRIDGE NORTH DUMFRIES HYDRO |
| CANADIAN NIAGARA POWER |
| CENTRE WELLINGTON HYDRO |
| CHAPLEAU HYDRO |
| COLLUS POWER |
| COOPERATIVE HYDRO EMBRUN INC |
| CORNWALL ELECTRIC |
| E.L.K. ENERGY INC |
| EASTERN ONTARIO POWER |
| ENERSOURCE MISSISSAUGA INC. |
| ENTEGRUS POWERLINES INC. |
| ENWIN UTILITIES |
| ERIE THAMES POWERLINES |
| ESPANOLA REGIONAL HYDRO |
| ESSEX POWERLINES CORPORATION |
| FESTIVAL HYDRO |
| FORT FRANCES POWER CORPORATION |
| GODERICH P.U.C. |
| GREATER SUDBURY HYDRO INC. |
| GUELPH HES |
| HALDIMAND COUNTY HYDRO |
| HALTON HILLS HYDRO INC. |
| HEARST POWER DISTRIBUTION COMPANY LIMITED |
| HORIZON UTILITIES CORPORATION |
| HYDRO 2000 |
| HYDRO HAWKESBURY INC. |
| HYDRO OTTAWA LIMITED |
| HYDROONE BRAMPTON |
| INNISFILL HYDRO DS |
| KINGSTON UTILITIES |
| KITCHENER WILMOT HYDRO |
| LAKEFRONT UTILITIES |
| LAKELAND POWER DISTRIBUTION |
| LONDON HYDRO INC. |
| MIDDLESEX POWER DISTRIBUTION CORPORATION |

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| MIDLAND POWER UTILITY |
| MILTON HYDRO DISTRIBUTION |
| NEWMARKET HYDRO LIMITED |
| NIAGARA PENINSULA ENERGY INC. |
| NIAGARA-ON-THE-LAKE HYDRO |
| NORFOLK POWER DISTRIBUTION INC. |
| NORTH BAY HYDRO DISTRIBUTION |
| NORTHERN ONTARIO WIRES-HYDRO ELECTRIC |
| OAKVILLE HED |
| ORANGEVILLE HYDRO |
| ORILLIA POWER DISTRIBUTION CORPORATION |
| ORILLIA POWER GENERATION CORPORATION |
| OSHAWA PUC NETWORKS |
| OTTAWA RIVER POWER |
| PARRY SOUND POWER |
| PETERBOROUGH DISTRIBUTION INC. |
| PORT COLBORNE HYDRO INC. |
| POWERSTREAM INC. |
| RENFREW HYDRO |
| RIDEAU ST. LAWRENCE DISTRIBUTION |
| SCUGOG HYDRO ENERGY |
| ST. THOMAS ENERGY INC. |
| TAY HYDRO ELECTRIC DISTRIBUTION |
| THE CORPORATION OF THE TOWNSHIP OF HORNEPAYNE |
| THUNDER BAY HYDRO ELECTRICITY DISTRIBUTION INC. |
| TILLSONBURG HYDRO INC. |
| TORONTO HYDRO ELECTRIC SYSTEM LTD. |
| VERIDIAN CONNECTIONS INC. |
| WALTHAM POWER AND COMPANY LP |
| WASAGA DISTRIBUTION INC. |
| WATERLOO NORTH HYDRO |
| WELLAND HES |
| WELLINGTON ELECTRIC DISTRIBUTION COMPANY INC. |
| WELLINGTON NORTH POWER INC. |
| WEST NIPISSING ENERGY SERVICES LIMITED |
| WESTARIO POWER |
| WHITBY HYDRO ELECTRIC CORPORATION |
| WOODSTOCK HYDRO SERVICES INC. |

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #2**

2
3 **Interrogatory**

- 4
- 5 (a) Does Hydro One currently have a joint use agreement or agreements with Bell
6 Canada under which each party has reciprocal access to the poles owned by the
7 other? If yes, please provide a copy of such agreement(s).
- 8 (b) Does Bell Canada pay Hydro One the OEB-approved Pole Attachment Fee of
9 \$22.35 for its Wireline Attachments? If not, what compensation or other
10 consideration does Bell Canada provide to Hydro One for its Wireline
11 Attachments?
- 12 (c) Will the proposed Pole Attachment Fee apply to Bell Canada and its Wireline
13 Attachments? If not, what fee will apply?
- 14 (d) Does Hydro One provide any services to Bell Canada for work done on Bell
15 Canada poles (*e.g.*, pole replacement, pole straightening, wires down, trees on
16 wire, maintenance related to vegetation, storm or emergency repairs)? If yes,
17 provide the rates and amounts received by Hydro One for any such work and
18 indicate whether the amounts received fully recover its costs for performing such
19 work.
- 20 (e) Does Hydro One provide any administrative services to Bell Canada in relation to
21 Bell Canada poles (*e.g.*, processing permit applications, GIS and inventory,
22 invoicing)? If yes, provide the rates and amounts received by Hydro One for any
23 such work and indicate whether the amounts received fully recover its costs for
24 performing such work.
- 25 (f) Does Bell Canada provide any services to Hydro One for work it performs on
26 Joint Use Poles (*e.g.*, pole replacement, pole straightening, wires down, trees on
27 wire maintenance related to vegetation, storm or emergency repairs)? If yes,
28 provide the rates and amounts received by Bell Canada for such work for each of
29 the years 2010-2015 (actual amounts for 2010-2014 and estimates for 2015).
- 30 (g) Does Bell Canada provide any administrative services to Hydro One in relation to
31 Joint Use Poles (*e.g.*, processing permit applications, GIS and inventory,
32 invoicing)? If yes, provide the rates and amounts received by Bell Canada for
33 such work for each of the years 2010-2015 (actual amounts for 2010-2014 and
34 estimates for 2015).
- 35 (h) Does Hydro One have any joint use agreements with any third party other than
36 Bell Canada that provide for reciprocal access to one another's poles? If yes,
37 please respond to the questions and provide the information requested in (a) to (e),
38 replacing "Bell Canada" with any such third party.

1 Response

2 (a) Currently Hydro One has a reciprocal joint use agreement with Bell Canada. Due to
3 the commercial sensitivity of third party information contained in this agreement,
4 Hydro One declines to disclose this agreement.

5 (b) Bell Canada does pay Hydro One the OEB pole attachment fee for purchased
6 companies that have *not* been integrated into the existing Bell/HONI agreement.
7 Within the existing Bell Canada/ HONI pole sharing agreement both companies pay
8 as negotiated within the agreement.

9 (c) Please see response to (b) above.

10 (d) Hydro One does provide services to Bell Canada based on the existing agreement and
11 fully recovers its costs.

12 (e) Hydro One does not provide administration services to Bell Canada.

13 (f) During storm restoration activities, Bell on the rare occasion has replaced Hydro One
14 owned poles when they have contractors who are replacing their own poles nearby.
15 For these rare situations, the Bell costs are not tracked. The rates and amounts would
16 be as per the Hydro One and Bell Joint Use agreement.

17 (g) Bell Canada does not perform any administrative services for Hydro One.

18 (h) Part 1 - LDCs

19 (a) Please see Exhibit I, Tab 4, Schedule 1, Attachment 4 for list of LDCs, with
20 reciprocal agreements with Hydro One. Due to the commercial sensitivity of
21 third party information contained in these agreements, Hydro One declines to
22 disclose these agreements.

23 (b) The LDCs pay Hydro One an OEB approved Pole Attachment Fee, based on the
24 OEB Decision for proceeding EB-2013-0416.

25 (c) See response to (h) part (b).

26 (d) During storm or trouble restoration activities, Hydro One would possibly perform
27 work on LDC-owned poles. This work is minimal throughout the year and is
28 therefore not tracked. The rates and amounts received by Hydro One for this
29 work are as per the Joint Use agreement with that LDC. Hydro One does not
30 provide forestry services to LDCs. As per the Joint Use agreement, the owner of
31 the pole is responsible for forestry maintenance.

32 (e) Hydro One does not provide any administrative services to LDCs.

1 Part 2 – Other Wireline Attachers Connected in the Communication Space with
2 Reciprocal Agreements

3 (a) The following Wireline Attachers have reciprocal agreements with Hydro One:
4 Lansdowne Rural Telephone Company Limited; Northern Tel Limited
5 Partnership; and Thunder Bay Telephone. Due to the commercial sensitivity of
6 third party information contained in these agreements, Hydro One declines to
7 disclose these agreements.

8 (b) These companies pay the Board-approved pole attachment fee of \$22.35.

9 (c) If approved, these companies will pay the proposed fee for their wireline
10 attachments.

11 (d) During storm or trouble restoration activities, Hydro One would possibly perform
12 work on these company-owned poles. This work is minimal throughout the year
13 and is therefore not tracked. The rates and amounts received by Hydro One for
14 this work are as per the Joint Use agreement with that company.

15 Hydro One performs some forestry services for these Wireline companies and is
16 reimbursed according to the reciprocal agreement.

17 (e) Hydro One does not provide any administrative services these Wireline
18 companies.

ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #3

Interrogatory

Ref: Exhibit G2-5-1 - Allocation factor of 21.9%.

- (a) Confirm that Hydro One has used an average of 2.5 Wireline Attachers per Joint Use Pole to generate an allocation factor of 21.9%. If not, please provide Hydro One's average or assumption respecting the number of Wireline Attachers per Joint Use Pole.
- (b) Has Hydro One conducted any studies or surveys or used the results of studies or surveys by others to calculate the average number of Wireline Attachers per Joint Use Pole? If so please provide a description of the studies or surveys used or taken into consideration, and copies of same.
- (c) Confirm that, under Hydro One's methodology, Wireline Attachers would contribute 54.8% of the common costs of a pole while Hydro One would contribute 45.2%.
- (d) Confirm that Hydro One has used the following dimensions (in feet) for the various spaces on a Joint Use Pole to generate an allocation factor of 21.9%. If not provide details of the dimensions used and their basis.

Table 3

| Space on Joint Use Pole | Length in feet |
|---------------------------------------|----------------|
| Buried Portion | 6.00 |
| Clearance Space | 17.25 |
| Communications Space | 2.00 |
| Separation Space | 3.25 |
| Power Space | 11.50 |
| Total length of Joint Use Pole | 40.00 |

- (e) Indicate whether power facilities, such as transformers, ever encroach on, or are attached within, the separation space on the Joint Use Poles.
- (f) Provide all steps in the calculation and all data inputs used to determine the allocation factor of 21.9%. Include all supporting evidence, assumptions and calculations employed otherwise not requested in (a) to (e).

1 **Response**

2
3 (a) Please refer to Exhibit I, Tab 1, Schedule 2, part a.

4 (b) Hydro One has not performed any studies or surveys nor is aware of any studies or
5 surveys performed by anyone else.

6 (c) Yes. Using the methodology adopted in OEB's Decision and Order in proceeding RP-
7 2003-0249, this is the result.

8 (d) For a typical Hydro One 40ft pole the following space allocations are made to be
9 consistent with the allocation of 21.9% for communication space.

10 **Table 3**

| Space on Joint Use Pole | Length in feet |
|---------------------------------------|-----------------------|
| Buried Portion | 6.00 |
| Clearance Space | 18.75 |
| Communications Space | 2.00 |
| Separation Space | 3.25 |
| Power Space | 10 |
| Total length of Joint Use Pole | 40.00 |

11
12 (e) In some legacy situations it is possible that power facilities may encroach in the
13 separation space. When this situation is identified and it does not allow a worker to
14 maintain their safe limits of approach, the pole layout is corrected at Hydro One's
15 expense. When this situation is identified and it does allow a worker to maintain their
16 safe limits of approach, the pole layout is corrected when the pole is replaced at its
17 end of life.

18 (f) Please refer to Exhibit I, Tab 1, Schedule 2, part a.

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #4**

2
3 **Interrogatory**

4
5 **Ref:** *Exhibit G2-5-1 – 2015 Net Embedded Cost of \$745.86 per pole.*

6 (a) Identify the number of poles used to calculate the per pole cost in each of the lines in
7 Table 16 of Exhibit G2-5-1 (“**Table 16**”) (for the years 2012 to 2019 inclusive).
8 Furthermore, identify the source of the number of poles used in each line of the
9 calculation and explain why the number of poles used in each line is relevant to the
10 calculation.

11 (b) Explain whether Hydro One used year-end number of poles or average number of
12 poles for each year in each line of Table 16 and, if year-end number of poles were
13 used, explain why average number of poles for each year was not used.

14 (c) For each of the years 2010-2015, provide Hydro One’s Average Embedded Cost per
15 pole (actual cost for 2010-2014 and estimates for 2015). Identify the categories,
16 descriptions and values of all asset accounts (both aggregate and sub-accounts) used
17 to determine the Average Embedded Cost, as well as the total number of poles and
18 types of poles (*e.g.*, Joint Use Poles, Single Use Poles, other types of poles) used to
19 determine a per Joint Use Pole cost.

20 (d) For each of the years 2010-2015, provide Hydro One’s Net Embedded Cost per pole
21 (actual cost for 2010-2014 and estimates for 2015). Identify the categories,
22 descriptions and values of all asset accounts (both aggregate and sub-accounts) used,
23 as well as the total number of poles and types of poles (*e.g.*, Joint Use Poles, Single
24 Use Poles, other types of poles) used.

25 (e) Describe in detail the methodology, including applicable cost inputs, that was used to
26 determine a Net Embedded Cost per pole of **\$745.86** as at Table 16. Confirm
27 whether the Net Embedded Cost per pole of **\$745.86** includes power-specific or
28 power-only fixtures or assets (Account # 1830 from the Board's Accounting
29 Procedures Handbook for Electricity Distributors (“**APH**”). If the cost of such
30 fixtures and assets are excluded, explain how the costs were identified and, if a factor
31 was used, identify that factor. If the cost of such power fixtures and assets are
32 included, explain the rationale for their inclusion. Include all supporting evidence,
33 assumptions and calculations employed.

34 (f) Confirm whether the Average Embedded Cost per pole and the Net Embedded Cost
35 per pole of **\$745.86** used to calculate the proposed Pole Attachment Fee include
36 Hydro One’s ongoing costs of pole replacement.

37 (g) For fiscal year ends 2012 and 2013, separately identify each of the following:

38 (i) gross assets;

- 1 (ii) accumulated depreciation;
 2 (iii) net assets; and
 3 (iv) depreciation expense.
- 4 (h) For the fiscal years 2014 to 2019, separately identify each of the following:
 5 (i) gross book value;
 6 (ii) accumulated depreciation; and
 7 (iii) depreciation expense.
- 8 (i) Confirm that the Net Embedded Cost per pole of **\$745.86** is based on the net book
 9 value of the "Poles, Towers & Fixtures" (Account # 1830 from the APH). If not,
 10 identify the source and derivation of the Net Embedded Cost.
- 11 (j) Confirm whether any costs associated with the replacement of Joint Use Poles has
 12 been included in the Net Embedded Cost per pole of **\$745.86**.
- 13 (k) Reconcile the Net Embedded Cost per pole of **\$745.86** with the net book value of the
 14 "Poles, Towers & Fixtures" (Account # 1830 from the APH) or other source. Provide
 15 all calculations and source references to enable replication of the calculations.
- 16 (l) Provide the amounts from each of the following accounts used to determine the Net
 17 Embedded Cost of **\$745.86**.

18 **Table 4**

| | |
|-------------|--|
| 1830 | Joint Use Poles, Towers and Fixtures |
| 1830-3 | Joint Use Poles, Towers and Fixtures - Subtransmission Bulk Delivery |
| 1830-4 | Joint Use Poles, Towers and Fixtures – Primary |
| 1830-5 | Joint Use Poles, Towers and Fixtures – Secondary |
| 1835 | Overhead Conductors and Devices |
| 1835-3 | Overhead Conductors and Devices - Subtransmission Bulk Delivery |
| 1835-4 | Overhead Conductors and Devices – Primary |
| 1835-5 | Overhead Conductors and Devices – Secondary |
| 1840 | Underground Conduit |
| 1840-3 | Underground Conduit - Bulk Delivery |
| 1840-4 | Underground Conduit – Primary |
| 1840-5 | Underground Conduit – Secondary |
| 1845 | Underground Conductors and Devices |
| 1845-3 | Underground Conductors and Devices - Bulk Delivery |
| 1845-4 | Underground Conductors and Devices – Primary |
| 1845-5 | Underground Conductors and Devices – Secondary |
| 1850 | Line Transformers |
| 1855 | Services |
| 1860 | Meters |

1 Response

2
 3 (a) For the pole count used for the years 2012 to 2014, see response to Exhibit I, Tab 4,
 4 Schedule 4, part c. The pole count used to calculate the Joint Use rates for 2015 to
 5 2019 in Table 16 was based on the pole count at year-end 2012 of 1,730,300.
 6 However it has since been determined that the actual pole count should have been
 7 1,535,344. A study into the Miscellaneous Charges directed by the OEB to ensure the
 8 charges recover costs is currently underway and will be submitted with the next
 9 distribution rate application. The pole count will be addressed as part of this study.
 10 Pole count is relevant as it is used in the calculations of various costs as shown in the
 11 response to Exhibit I, Tab 1, Schedule 1.

12 (b) Hydro One used the pole count as at year end 2012. The average number of poles was
 13 not used as pole count does not differ significantly throughout the year.

14 (c) The amounts below are all contained within APH Account 1830. Hydro One's system
 15 does not distinguish between Joint Use and Single Use poles.

16 Table 1 below is calculated using submitted pole numbers. Hydro One has
 17 extrapolated pole counts for years 2010, 2011, 2013-2015 using the trend of 12,000
 18 per year.

19 **Table 1**

| Net Embedded & Indirects Costs Per Pole | | | | | | |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | Forecast 2015 |
| Net Book Value | \$1,350,120,554 | \$1,440,921,900 | \$1,518,308,236 | \$1,645,299,161 | \$1,760,917,932 | \$1,896,542,154 |
| Quantity | 1,706,300 | 1,718,300 | 1,730,300 | 1,742,300 | 1,754,300 | 1,766,300 |
| Average Net Book Value | \$791.26 | \$838.57 | \$877.48 | \$944.33 | \$1,003.77 | \$1,073.74 |
| Net Embedded Cost | \$672.57 | \$712.79 | \$745.86 | \$802.68 | \$853.21 | \$912.68 |

20
 21 (d) Please see answer to part (c) above.

22 (e) The Net Embedded Cost per pole does not include any power-specific assets. As
 23 approved in RP-2003-0249, 85% of the Net Book Value was used to determine the
 24 Net Embedded Cost. The 15% that is removed from the cost represents the value that
 25 is associated with power-specific assets. Refer to calculations in Exhibit I, Tab 1,
 26 Schedule 1.

27 (f) Yes, Hydro One pole replacements are included in the cost when it is not paid for by
 28 an external party.

29 (g) Refer to the table found in part c above and Exhibit I, Tab 4, Schedule 5, part b.

30
 31 (h) This information is reported and forecasted only at the USofA level, Account 1830
 32 "Poles, Towers and Fixtures".

| | | Gross Assets | | | | | |
|----------------------|-----------------------------------|---------------------|--------|--------|--------|--------|--------|
| | | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| <i>(\$ millions)</i> | | Y/E | Y/E | Y/E | Y/E | Y/E | Y/E |
| 1830 | Poles, towers and fixtures | 2597.8 | 2757.4 | 2910.8 | 3077.8 | 3256.4 | 3438.3 |
| | Depreciation | 45.7 | 45.1 | 47.7 | 50.4 | 53.3 | 56.4 |
| | Accumulated Depreciation | 847.5 | 885.6 | 925.5 | 967.5 | 10212. | 1059.5 |

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- (i) Net Embedded Cost is 85% of the Average Net Book Value of Account 1830.
- (j) The replacement costs of poles are included in the net embedded costs per pole. However, no costs are included IF the installation is paid for by someone other than Hydro One.
- (k) Please refer to the response in Exhibit I, Tab 1, Schedule 1.
- (l) The quantity of poles, acquisition value, and accumulated depreciation were pulled from the APH Account #1830 to determine the Net Embedded Cost. The account takes into account all poles and is not Joint Use specific. Hydro One does not break Account 1830 into subcategories for the purpose of determining miscellaneous service charges.

ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #5

Interrogatory

Ref: Exhibit G2-5-1 – 2015 depreciation expense of \$12.68 for per pole.

- (a) Reconcile the Depreciation Expense per pole of **\$12.68** with the Depreciation and Amortization evidence filed or adduced in EB-2013-0416, providing specific reference to the passages in the evidence referred to. Identify the year and provide all calculations used to perform the reconciliation.
- (b) For each of the years 2010-2015, provide Hydro One’s Depreciation Expense per pole (actual amount for 2010-2014 and estimates for 2015). Identify the categories, descriptions and values of all asset accounts (both aggregate and sub-accounts) used to determine the Depreciation Expense per pole, as well as the total number of poles used to determine a per pole cost, if applicable.
- (c) Describe in detail the methodology, including applicable cost inputs, that was used to determine the Depreciation Expense per pole of **\$12.68**. Describe the manner in which the costs of power-specific or power-only assets were excluded from the calculation. Include all supporting evidence, assumptions and calculations employed.

Response

- (a) \$12.68 is the submitted amount in the Miscellaneous Charges portion of the filing and based on 2012 actuals. Refer Exhibit I, Tab 1, Schedule 1 for calculation.
- (b) The number of poles was determined as in Exhibit I, Tab 4, Schedule 4, part c. The only account used was Account #1830.

| Depreciation Expense per Pole | | | | | | |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | Forecast 2015 |
| Acquisition Value (AV) | \$2,046,838,986 | \$2,171,790,295 | \$2,285,926,192 | \$2,451,682,512 | \$2,601,540,277 | \$2,810,044,338 |
| Depreciation (AV x 85%) x 1.7% | \$29,576,823 | \$31,382,370 | \$33,031,633 | \$35,426,812 | \$37,592,257 | \$40,605,141 |
| Quantity | 1,706,300 | 1,718,300 | 1,730,300 | 1,742,300 | 1,754,300 | 1,766,300 |
| Depreciation per Pole | \$17.33 | \$18.26 | \$19.09 | \$20.33 | \$21.43 | \$22.99 |

- (c) Please refer to Exhibit I, Tab 1, Schedule 1.

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #6**

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Interrogatory

- 5 (a) Is the expected life of a Joint Use Pole 45 years? If not, provide the expected life of
6 such Joint Use Poles and indicate why it differs from 45 years. Provide any evidence
7 to support such expected life.
- 8 (b) Provide the number of Joint Use Poles that are currently at or near end-of-life.
- 9 (c) Provide the number of Joint Use Poles that remain in use and are fully depreciated.
10 Indicate whether or not these poles have been included in the count of poles used to
11 determine the net embedded cost per pole and the depreciation expense per pole.
- 12 (d) Provide the number of Joint Use Poles that have been, or will be replaced, in 2015
13 pursuant to: (i) a proactive replacement program; (ii) another capital program.
14 Identify the nature of the capital program(s) for these replacements.
- 15 (e) Complete the table below with respect to Joint Use Poles replaced as part of a
16 proactive replacement program.

17

Table 5

| | 2010 | 2011 | 2012 | 2013 | 2014 |
|--|------|------|------|------|------|
| Number of poles replaced | | | | | |
| Percentage of poles replaced | | | | | |
| Percentage of poles replaced that are beyond their expected life | | | | | |

18
19

1 (f) Complete the following table.

2 **Table 6**

| | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------|------|------|------|------|
| Number of poles to be replaced | | | | | |
| Number of poles to be replaced that are beyond their expected life | | | | | |

3 (g) Is it Hydro One's practice to automatically replace all poles that are older than their
4 expected useful life?

5
6 **Response**

7
8 (a) The expected service life of a pole on the Hydro One Networks' system is 62 years
9 based on survival analysis. The expected life of a Joint Use pole would also be 62
10 years and is not calculated differently.

11
12 (b) Currently, there are 19,500 poles with Joint Use attachments that have been assessed
13 to be in poor condition and identified for replacement through the distribution line
14 patrol program.

15
16 (c) There are approximately 85,700 poles with Joint Use attachments that are fully
17 depreciated. These poles are in the count of poles used to determine the net embedded
18 cost per pole and the depreciation expense per pole.

19
20 (d) There have been 2,788 Joint Use poles replaced in 2015 through the Planned Pole
21 Replacement Program. Poles may also be replaced through other work programs
22 such as: capital trouble calls and storm demand response, upgrades driven by load
23 growth, joint use and line relocations, and lines sustainment initiatives.
24 Approximately 13,000 poles are replaced or added to the system through these
25 programs annually, however, the presence of Joint Use is not recorded when these
26 poles are installed.

27
28 (e) Historically, the replacement of poles was not recorded. The collection of this
29 information was started two years. Going forward this information is being captured
30 and will be available.

1 (f)
2

Table 6

| | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|-------------|-------------|-------------|-------------|-------------|
| Number of poles to be replaced | 11,600 | 12,200 | 13,200 | 14,200 | 15,200 |
| Number of poles to be replaced that are beyond their expected life | 3,100 | 3,300 | 3,500 | 3,800 | 4,100 |

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(g) No, Hydro One does not automatically replace all poles that are older than their expected useful life.

ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #7

Interrogatory

Ref: Exhibit G2-5-1 - 2015 Capital Carrying Cost of \$63.32 per pole.

- (a) Confirm whether or not the Capital Carrying Cost of **\$63.32** per pole is based on a weighted average cost of capital of 8.49%. If not, identify the weighted average cost of capital that was used. Explain in detail why 8.49% or some other weighted average cost of capital has been used.
- (b) Reconcile the Capital Carrying Cost of **\$63.32** per pole with Capital Cost evidence filed or adduced in EB-2013-0416, providing specific reference to the passages in the evidence referred to. Identify the year and provide all calculations used to perform the reconciliation used for the calculation of the Capital Carrying Costs per pole of **\$63.32**.
- (c) Identify the cost of capital used to calculate the Capital Carrying Cost and provide an EB-2013-0416 proceeding reference to the calculation of the cost of capital. If the cost of capital used to calculate the proposed Pole Attachment Fee is not equal to the cost of capital used in the EB-2013-0416 proceeding to determine electricity rates, provide an explanation for the difference.

Response

- (a) In Exhibit G2, Tab 5, Schedule 1, Table 16 submitted in 2013, the Capital Carrying cost of \$63.32 for 2015 was based on a weighted average cost of capital of 8.49%. The table below shows the derivation of the 8.49% value.

| Current Weighted Average Cost of Capital (WACC) | 2012 |
|--|-------------|
| Hydro One Target Long-term Debt Ratio | 56.00% |
| Hydro One Target Short-term Debt Ratio | 4.00% |
| Hydro One Target Equity Ratio | 40.00% |
| Hydro One Medium & Long-Term Borrowing Rate | 5.60% |
| Hydro One Short-term Borrowing Rate | 2.43% |
| Hydro One Target Return on Equity | 9.66% |
| Hydro One Target BEFORE TAX Return on Equity | 13.14% |
| Hydro One Proxy Income Tax Rate | 26.50% |
| Hydro One WACC | 6.24% |
| Hydro One BEFORE TAX WACC | 8.49% |

Filed: 2015-09-08

EB-2015-0141

Exhibit I

Tab 4

Schedule 7

Page 2 of 2

- 1 (b) Refer to Exhibit I, Tab 1, Schedule 1 for the calculations used to determine the
- 2 Capital Carrying Cost of \$63.32. This calculation is based on the 2012 actual Cost of
- 3 Capital as provided in part a).

- 4 (c) Refer to table in part a). The difference is caused by the use of 2012 actuals as a base
- 5 for the Joint Use Rates submission.

ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #8

Interrogatory

Ref: Exhibit G2-5-1 – 2015 Maintenance (L&F) costs of \$82.41 per pole.

- (a) Provide a detailed description of all activities undertaken as part of “Maintenance (L&F) Costs”, including the tasks performed, the employee categories involved, the hourly wages, vehicle costs and time required to complete each task.
- (b) Provide a detailed description of the methodology, assumptions and all data inputs (and data sources), including the number of poles, used to generate Maintenance (L&F) Costs of **\$82.41** per pole.
- (c) Complete the table below with respect to the Maintenance (L&F) Costs for each of the years 2010 to 2015 for each maintenance activity (expanding the table as necessary to include each activity), using actuals for 2010-2014 and estimates for 2015. Provide the sources and supporting data for the values used to populate the table.

Table 7

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------------|------|------|------|------|------|------|
| Activity 1 | | | | | | |
| Activity 2 | | | | | | |
| Activity 3 | | | | | | |
| Activity 4 | | | | | | |
| Total (L&F) Maintenance Costs | | | | | | |
| Number of poles | | | | | | |
| Maintenance (L&F) Costs per pole | | | | | | |

- (d) Is **\$82.41** based on historical data or a forecast budget? If it is based on historical data, describe the time period over which the data was collected.
- (e) Indicate whether costs that are attributable to power-only assets were excluded from the calculation of Maintenance (L&F) Costs of **\$82.41**. If yes, explain and demonstrate how these costs were excluded. Indicate whether the costs of maintaining Single Use Poles were excluded from the same calculation. If yes, explain and demonstrate how these costs were so excluded. In both cases, provide the methodology, assumptions and calculations used.

1 (f) Indicate whether tree trimming or vegetation management costs are included in the
2 *Maintenance (L&F) Costs*. If yes, confirm that Wireline Attachers are required to
3 perform their own tree trimming or pay separately for tree trimming or vegetation
4 management in respect of their Wireline Attachments. Provide all amounts paid to
5 Hydro One by third parties for tree trimming or vegetation management for each year
6 from 2010 to 2015.

7 (g) For each year from to 2010 to 2015, provide all amounts paid to Hydro One by third
8 parties for any activities included in *Maintenance (L&F) Costs* (excluding tree
9 trimming or vegetation management) for each year from 2010 to 2015.

10

11 **Response**

12

13 (a) **Maintenance Lines Costs** includes line patrols, defect corrections pole inspections
14 (e.g. visual inspection and a hammer test), repairs and straightening of poles. All
15 poles are inspected on a 6 year cycle in the rural areas and 3 years in urban centres.

16 The **Maintenance Forestry Costs** include customer notification, brush control and
17 line clearing. The tasks involved in each are listed below:

18 Land owner Contact and Job Planning (Notification) - The landowner contact
19 program involves job planning, project layout, property owner notification and
20 negotiation to address issues concerning tree pruning, tree removal, brush cutting,
21 herbicide use, property access, and any other customer/landowner owner issues. This
22 activity prepares property level work packages for line clearing and brush control
23 programs.

24 Brush Control - The brush control program involves the management of plant
25 communities on the right of way to minimize the presence of tree species that can
26 grow tall enough to contact the overhead lines. It also provides an accessible right of
27 way to allow equipment inspection and maintenance and emergency response.

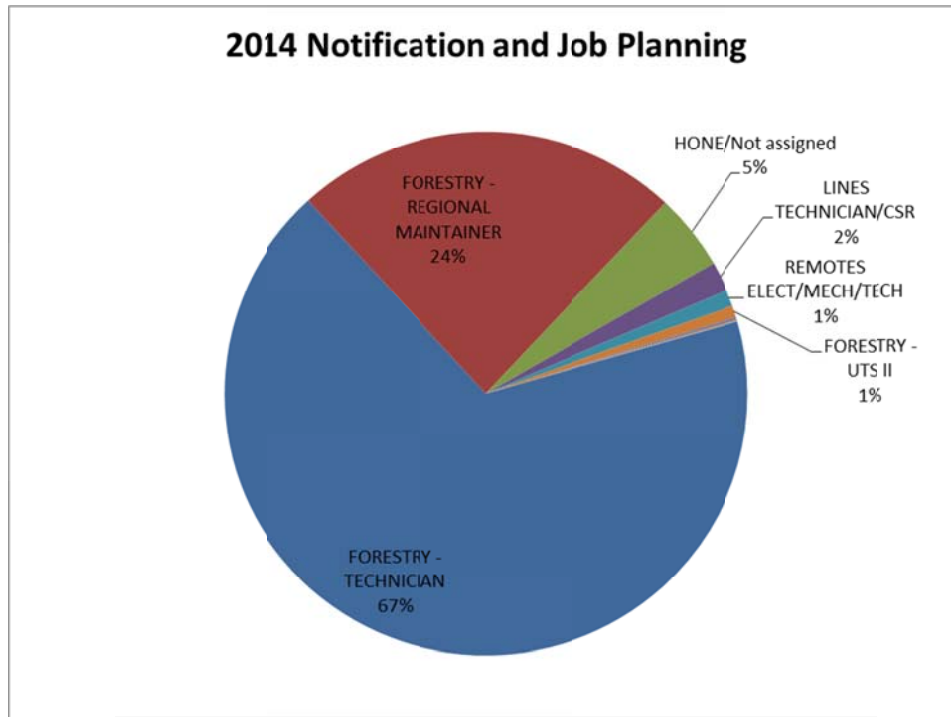
28 Line Clearing – The line clearing program involves tree risk assessment, tree removal
29 and tree pruning to provide sufficient clearances to power and telecom conductors
30 and electrical equipment and to mitigate tree risk between scheduled maintenance.

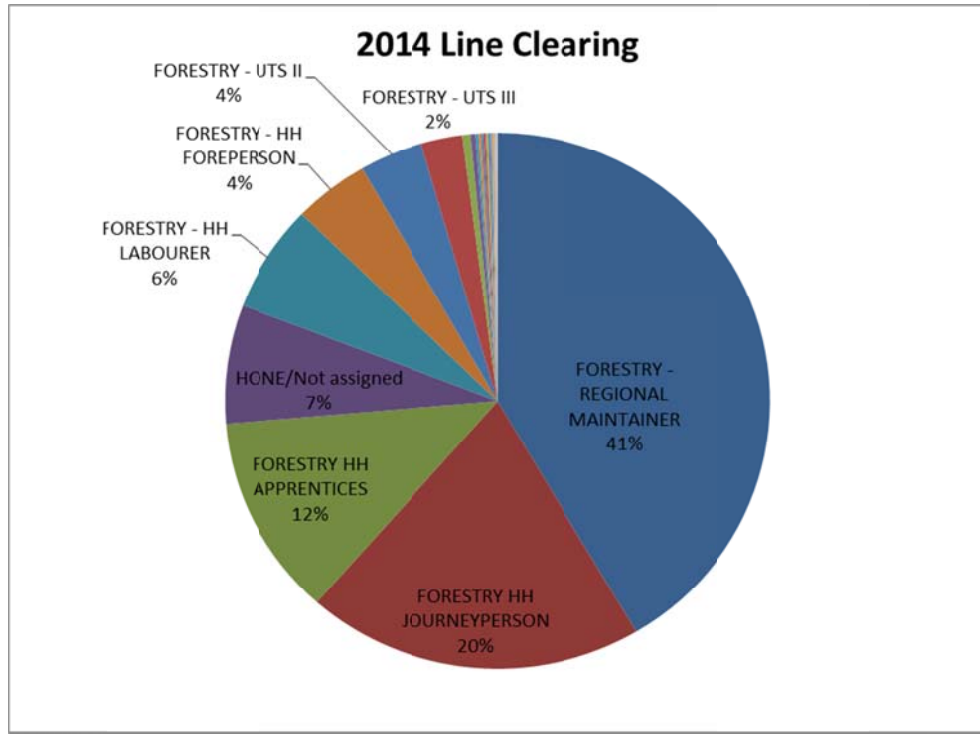
2 Table: Labour and Fleet Costs, Completion Times

| Maintenance Costs - Vegetation Management | | | | | | | | | | | | | | | |
|---|-----------------|--------|----------|-----------|---------|------------------|--------|----------|-----------|---------|------------------|--------|----------|-----------|---------|
| Year | Dx Notification | | | | | Dx Brush Control | | | | | Dx Line Clearing | | | | |
| | Hrs | Units | Hrs/Unit | Total M\$ | TWE M\$ | Hrs | Units | Hrs/Unit | Total M\$ | TWE M\$ | Hrs | Units | Hrs/Unit | Total M\$ | TWE M\$ |
| 2010 | 66,642 | 12,853 | 5.2 | 7.443 | 0.689 | 433,232 | 12,980 | 33.4 | 34.829 | 4.496 | 734,450 | 11,432 | 64.2 | 78.437 | 16.263 |
| 2011 | 62,952 | 11,459 | 5.5 | 7.269 | 0.621 | 398,283 | 11,426 | 34.9 | 31.162 | 3.695 | 730,875 | 11,097 | 65.9 | 80.542 | 15.837 |
| 2012 | 55,042 | 10,056 | 5.5 | 7.134 | 0.562 | 433,436 | 11,557 | 37.5 | 34.667 | 3.782 | 761,868 | 11,195 | 68.1 | 87.059 | 16.184 |
| 2013 | 58,268 | 10,382 | 5.6 | 7.712 | 0.604 | 421,827 | 10,448 | 40.4 | 35.553 | 4.615 | 747,581 | 10,378 | 72.0 | 82.957 | 15.541 |
| 2014 | 64,699 | 9,748 | 6.6 | 9.189 | 0.715 | 266,903 | 6,177 | 43.2 | 23.868 | 2.496 | 783,237 | 9,474 | 82.7 | 97.747 | 18.863 |
| 2015* | 49,287 | 8,000 | 6.2 | 7.000 | 0.544 | 180,598 | 5,000 | 36.1 | 16.150 | 1.689 | 774,731 | 9,400 | 82.4 | 96.685 | 18.658 |

* A \$8M dollar cut was levied to Dx vegetation management since July month end and those cuts aren't reflected here. YE \$ forecasts came from July Month end financial report. YE forecasts for Hrs, TWE spend were based on the 2014 prices and YE expected spend

4 Figure: Employee Categories





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4 (b) Maintenance L & F – Refer to Exhibit I, Tab 1. Schedule 1.

5 (c)

6 **Table 7**

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Customer Notification | \$7.4M | \$7.3M | \$7.1M | \$7.7M | \$9.2M | \$7.0M |
| Brush Control | \$34.8M | \$31.2M | \$34.7M | \$35.6M | \$23.9M | \$16.1M |
| Line Clearing | \$78.4M | \$80.5M | \$87.1M | \$83.0M | \$97.7M | \$96.7M |
| Defect Correction | \$8.8M | \$9.0M | \$5.0M | \$6.1M | \$3.3M | \$6.2M |
| Line Patrol | \$12.3M | \$7.5M | \$8.7M | \$10.3 M | \$5.4 M | \$8.4 M |
| Total (L&F) Maintenance Costs | \$141.9M | \$135.4M | \$142.6M | \$142.6M | \$139.6M | \$134.5M |
| Number of poles | 1,706,300 | 1,718,300 | 1,730,300 | 1,742,300 | 1,754,300 | 1,766,300 |
| Maintenance | \$83.16 | \$78.80 | \$82.41 | \$81.85 | \$79.58 | \$76.15 |

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------|------|------|------|------|------|------|
| (L&F) Costs per pole | | | | | | |

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(d) The table above indicates L&F costs based on pole counts and dollars spent (2010 to 2014) per year and forecast for 2015.

(e) Costs associated with power-only assets were not excluded from the calculation.

The Costs of maintaining Single Use Poles were not excluded from the same calculation.

(f) Tree trimming and vegetation management costs around Hydro One-owned poles are included in the Maintenance (L&F) Costs. Any tree trimming or vegetation management performed around a Wireline Attacher-owned pole is the responsibility of the Attacher.

(g) Hydro One does not perform any type of maintenance on third party assets.

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #9**

2
 3 **Interrogatory**

4
 5 **Ref:** *Exhibit G2-5-1 – 2015 “Admin” costs of \$0.85 per pole.*

6 (a) Provide a detailed description of all activities undertaken as part of “*Administration*
 7 *Costs*”, including the tasks performed, the employee categories involved, the hourly
 8 wages, vehicle costs and time required to complete each task.

9 (b) Provide the calculation used to determine the *Administration Costs* of **\$0.85** per pole.
 10 Confirm that the *Administration Costs* of **\$0.85** per pole was determined by dividing
 11 the total *Administration Costs* per pole by the average number of Wireline Attachers.
 12 For example, if one were to use an average of 2.5 Wireline Attachers, then the total
 13 *Administration Costs* per pole would be \$2.13, which would yield *Administration*
 14 *Costs* of **\$0.85** to be paid by each of the 2.5 Wireline Attachers. If this is not the case,
 15 please explain why.

16 (c) Indicate whether or not the *Administration Costs* stated are in respect of only Joint
 17 Use Poles with one or more Wireline Attachments.

18 (d) Complete the table below with respect to the *Administration Costs* for each of the
 19 years 2010 to 2015 for each administration activity (expanding the table as necessary
 20 to include each activity), using actuals for 2010-2014 and estimates for 2015.
 21 Provide the sources and supporting data for the values used to populate the table.

22 **Table 8**

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------------|------|------|------|------|------|------|
| Activity 1 | | | | | | |
| Activity 2 | | | | | | |
| Activity 3 | | | | | | |
| Total Admin Costs | | | | | | |
| # of poles used in calculation | | | | | | |
| Admin Costs per pole | | | | | | |

1 *Response*

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- (a) A description of activities is provided in Exhibit I, Tab 1, Schedule 1. Hydro One has not performed an analysis on “Administration Costs” to determine individual employee activities and related costs. To be consistent with the OEB Decision in RP-2003-0249, Hydro One used \$0.69 as its base rate and added 3% inflation per year from 2005 to 2012. The 2012 rate was then used as a base for our calculations.
- (b) Please refer to Exhibit I, Tab 1, Schedule 1 for the calculation.
- (c) Please refer to Exhibit I, Tab 1, Schedule 1. Hydro One adopted the OEB Decision in RP-2003-0249 and has used 2.5 attachments in our calculation.
- (d) Please refer to Exhibit I, Tab 1, Schedule 1. As the Administration Costs were not calculated based on individual tasks and associated costs, this table cannot be filled out.

ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #10

Interrogatory

Ref: Exhibit G2-5-1 – 2015 Loss of Productivity costs of \$1.51 per pole.

(a) Please describe in detail the activities that are included in the *Loss of Productivity Costs*, including:

- (i) the tasks performed;
- (ii) how the tasks performed are directly related to the presence of Wireline Attachments on the Joint Use Poles;
- (iii) the number of incidents reported requiring such task to be performed;
- (iv) the time spent performing such tasks; and
- (v) the types and categories of employees involved and the associated hourly wages.

(b) Describe in detail the methodology, data sources and data inputs used to determine the *Loss of Productivity Costs*, including but not limited to the number of hours of labour (and corresponding rates) identified for these activities.

(c) Provide the calculation used to determine the *Loss of Productivity Costs* of **\$1.51** per pole. Confirm that the *Loss of Productivity Costs* of **\$1.51** per pole was determined by dividing the total *Loss of Productivity Costs* per pole by the average number of Wireline Attachers. For example, if one were to assume an average of 2.5 Wireline Attachers per pole, then the total *Loss of Productivity Costs* per pole would be \$3.83, which would yield *Loss of Productivity Costs* of **\$1.51** to be paid by each of the 2.5 Wireline Attachers. If this is not the case, please explain why.

(d) Complete the table below with respect to the *Loss of Productivity Costs* for each of the years 2010 to 2015 for each activity (expanding the table as necessary to include each activity), using actuals for 2010-2014 and estimates for 2015. Provide the sources and supporting data for the values used to populate the table.

Table 9

| Loss of Productivity Costs | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------------------------|------|------|------|------|------|------|
| Activity 1 | | | | | | |
| Activity 2 | | | | | | |
| Activity 3 | | | | | | |
| Activity 4 | | | | | | |
| Activity 5 | | | | | | |
| # of poles affected | | | | | | |
| Total Costs per pole | | | | | | |

1 *Response*

2

3 (a) Hydro One has not performed an analysis of the individual tasks and associated costs
4 regarding Loss of Productivity. Hydro One adopted the loss of productivity cost from
5 the OEB Decision and Order RP-2003-0249 (March 2005) and escalated it by 3% per
6 year (2005-2012) to determine the rate increase proposed in its custom rate
7 application filed in 2013.

8 (b) Please refer to Exhibit I, Tab 4, Schedule 10, part a, and Exhibit I, Tab 1, Schedule 1
9 for the calculation.

10 (c) Please refer to Exhibit I, Tab 1, Schedule 1 for calculation used.

11 (d) Please refer to Exhibit I, Tab 4, Schedule 10, part a, for response.

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #11**

2
3 Interrogatory

- 4
- 5 (a) Do the costs for pole replacement and the number of Joint Use Poles replaced include
6 Joint Use Poles for which Hydro One received payment to replace (*e.g.*, customer-
7 requested replacements or relocations, make ready work to accommodate Wireline
8 Attachers)? If so, provide the amount of revenues received and the corresponding
9 number of Joint Use Poles replaced for each of the years indicated in the table above.
- 10 (b) Provide a detailed description of the differences in crew, equipment, time and number
11 of visits required to complete pole replacements of Single Use Poles or poles without
12 Wireline Attachments as compared to Joint Use Poles with Wireline Attachments.
- 13 (c) Confirm that it is Hydro One's practice to replace a group of Joint Use Poles within a
14 given area (*e.g.*, on the same street or within the same neighbourhood) at the same
15 time rather than replacing each Joint Use Pole in that area individually at separate
16 times.

17
18 Response

- 19
- 20 (a) No. Hydro One does not charge customers for poles replaced or identified under the
21 pole replacement program and Hydro One does not include the costs for replacing
22 any pole that is covered by another party in its total pole replacement costs.
- 23 (b) For all Hydro One-owned poles without Wireline Attachers, Hydro One only makes
24 one trip to install a new pole and remove the old pole. For all Hydro One poles that
25 have Wireline Attachments, Hydro One is required to make a second trip to the job
26 site to remove the old pole once the Wireline Attachers have transferred. Also it takes
27 extra time to cut and lower the top of the pole, set the pole around Wireline
28 Attachments, and to climb around the Wireline Attachments.
- 29 (c) When it is practical to do so, it is Hydro One's practice to bundle the work. If there is
30 a number of poles to be replaced in a given geographic area, Hydro One attempts to
31 complete the work in the fewest number of trips possible to limit mobilization and
32 demobilization costs.

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #12**

2
3 Interrogatory

- 4
- 5 (a) Provide a detailed description of the process, including all steps involved, for a
6 Wireline Attacher to receive approval to install:
- 7 (i) its first Wireline Attachment on a Joint Use Pole; and
- 8 (ii) each subsequent Wireline Attachment.
- 9 (b) Further to response (a), provide copies of all forms, permit applications or similar
10 documents that Hydro One requires Wireline Attachers to complete.
- 11 (c) Does Hydro One charge a Wireline Attacher a separate fee to review and process
12 applications, and issue permits, to install a Wireline Attachment on a Joint Use Pole?
- 13 (d) If the answer to (c) is “yes”, (i) what is the current value of that fee for each permit
14 application and (ii) provide the total annual revenues received in respect of such
15 permit fees for each of the years 2010 through 2014, and estimated for 2015.

16
17 Response

- 18
- 19 (a)
- 20 (i) Hydro One receives a request via a permit application based on Ontario
21 Regulation 22/04 from a wireline attacher and the following process is followed;
- 22 -1 Hydro One reviews the application for completeness
- 23 -2- Any missing or incomplete fields are communicated back to the wireline
24 attacher and appropriate corrections are made and the application is
25 resubmitted.
- 26 -3- The Hydro One Area Distribution Technician “ADET” is scheduled to review
27 this application and complete a Class ‘C’ estimate for any potential make-
28 ready work, as well as, their labour hours to complete a final detailed design.
- 29 -4- The Class ‘C’ estimate is sent to the wireline attacher for review and
30 acceptance of costs.
- 31 -5- Once the wireline attacher approves the Class ‘C’ estimate to design, Hydro
32 One then proceeds to a Class ‘A’, detailed Field Design, based on the wireline
33 attacher’s application.
- 34 -6- The ADET completes the detailed design and costs for make-ready.
- 35 -7- The detailed design and cost is sent to the wireline attacher for approval.
- 36 -8- The wireline attacher approves the make-ready costs.

- 1 -9- Hydro One completes construction of make ready work.
- 2 -10- when Hydro One make-ready is complete, the ADET will then approve and
- 3 issue the permit to the wireline attacher. Once the wireline attacher receives
- 4 the approved permit, they are now able to attach, their attachments, based on
- 5 the application/permit.
- 6 -11- wireline attacher is invoiced.
- 7 -12- Hydro One is notified by the wireline attacher when attachments are
- 8 complete.
- 9 -13- Hydro One construction crews return to remove pole butts.
- 10 -14- Hydro One's ADET, field verifies to determine that the new wireline
- 11 attachments, were constructed as per the design, and signs off for compliance
- 12 of Ontario Regulation 22/04, for 3rd party attachments.
- 13 -15-Deficiencies are communicated to wireline attacher to have corrected, and
- 14 Hydro One follows up until completed.
- 15 (ii) The process is the same as indicated above.
- 16 (b) Please see Attachment 1 for our Request for Line Change form and Attachment 2 for
- 17 our Permit Application form.
- 18 (c) A separate fee is not charged.
- 19 (d) Not applicable.

(Insert JU. Company Name Here)

Request for Line Change
Cable/Fibre/Independent Telephone/LDCs/Generators

Request for Line Change

| | | | |
|--|--|--------------------|--|
| Is this the initial request on this job? | <input type="checkbox"/> Yes <input type="checkbox"/> No | Consultation Only? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Request for Cost Estimate Only? | <input type="checkbox"/> Yes <input type="checkbox"/> No | Proceed with Work? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| | | | | |
|--------------|------------|--|----------------------|-------------------------|
| From: | Company: | | Date: | Request number: |
| | Address: | | | |
| | Address: | | Employee #: | Requested Service Date: |
| | Attention: | | Exchange (if appl.): | H1 Service Centre: |
| | E-mail: | | Telephone: | Fax #: |

| | | | | |
|------------|------------|--|--|------------------|
| To: | Company: | | Network #(if appl.): | H1 work order #: |
| | Address: | | | |
| | Address: | | Company JU permit # | H1 JU permit #: |
| | Attention: | | | |
| | E-mail: | | Pole Ownership: <input type="checkbox"/> H1 <input type="checkbox"/> Independent <input type="checkbox"/> LDC <input type="checkbox"/> Other | |
| Telephone: | Fax: | Prime Exchange: <input type="checkbox"/> H1 <input type="checkbox"/> Independent <input type="checkbox"/> To Be Determined | | |

| | | | | |
|-----------------------------|---|-----------|-------------------|--|
| Customer/Job Details | Service Request <input type="checkbox"/> Transfers <input type="checkbox"/> Remove Pole(s) <input type="checkbox"/> Provide Hole(s) <input type="checkbox"/> Set Pole(s) <input type="checkbox"/> | | | |
| | Safety Affecting <input type="checkbox"/> Connect Bonds* <input type="checkbox"/> # of bonds = _____ Provide detailed location info. | | | |
| | * This is DEMAND work required for electrical safety protection. Must be completed within 20-business days. | | | |
| | Other <input type="checkbox"/> Please specify. _____ | | | |
| | Customer/Job Name: | | Pole & Route #: | |
| | 911/Civic Address: | | Closest Trans. #: | |
| Lot: | Conc.: | Township: | | |
| Description of work/job: | | | | |

| | | |
|---------------------------|--|--|
| Joint Field Visit? | Do you require a joint field visit (JFV) with our representative? <input type="checkbox"/> YES <input type="checkbox"/> NO | If YES, state preferred date(s) for JFV? |
|---------------------------|--|--|

| | |
|----------------------------|--|
| Directions or Notes | |
|----------------------------|--|

| | | | | |
|--|---|--|---|----------------------------|
| Notes for Construction | Hydro Responsibilities: | Estimated completion date: | JU Partner Responsibilities: | Estimated completion date: |
| | <input type="checkbox"/> Rock Mounts | | <input type="checkbox"/> Rock Mounts | |
| | <input type="checkbox"/> Port-a-Holes | | <input type="checkbox"/> Port-a-Holes | |
| | <input type="checkbox"/> Install Pole(s) including backfill | | <input type="checkbox"/> Install Pole(s) including backfill | |
| | <input type="checkbox"/> Perform JU Partner Transfers | | <input type="checkbox"/> Perform JU Partner Transfers | |
| | <input type="checkbox"/> Remove/Recycle JU Partner Pole(s) | | <input type="checkbox"/> Remove/Recycle H1 Pole(s) | |
| | <input type="checkbox"/> Top Pole(s) for JU Partner | | <input type="checkbox"/> Deliver Pole(s) to H1 yard | |
| <input type="checkbox"/> Connect Bonds | | <input type="checkbox"/> Deliver Pole(s) to job site | | |

| | | |
|---------------------|---|--|
| Service Date | Can you meet "Requested Service Date" above? <input type="checkbox"/> Yes <input type="checkbox"/> No | If "No" state reason and earliest possible service date: |
|---------------------|---|--|

| | | | | |
|--------------------------------|---|--|------------------------------------|------|
| Final Completion Notice | Work as requested above has been completed as of: | | Return Final Completion Notice to: | |
| | Date: | | Company: | |
| | Company: | | Address: | |
| | Contact: | | Attention: | |
| | Title: | | E-mail: | |
| | Comments: | | Telephone: | Fax: |



APPLICATION FOR LICENSED OCCUPANCY OF POLES

* Please complete all boxes above the dotted line

| | | |
|--|-----------------|---|
| Permission is Requested By (Company Name): | | Licensee's Project/Permit/Reference #: |
| | | Supercedes Permit No. or "New" |
| Authorized Representative: | Title | Number of Poles (To Receive Attachments): |
| Phone Number: | E-Mail Address: | Date: |

Standard Designs Used: Attacher Developed

Support Strand: Owned by Licensee Owned by Other
 If other identify owner here: _____

If Support Strand is owned by Other, Do you have permission to attach? YES NO

Please complete "Permission to Overlash" form located on next tab.

Attachment Information - Provide detailed information on all attachments (strand and messenger) including quantity, size (diameter in mm), line tension (kN), and type (fiber, copper, etc.)

Location Information:

| | | | |
|------------------------|--------------------------------|-------------------------------|---------------------------|
| Lot Numbers or Address | Conc., Street or Road Name(s): | Township, Village or Town of: | County / Municipality of: |
| | | | |

Detailed Design Information: Show occasional Hydro One Transformers and civic/street addresses along defined route.

| | |
|------------------------------|---|
| Key Map/Permit Sketch | Work Instructions |
| | |
| Standard Designs | Certificate of Approval (If not included in the Work Instructions) |

For Hydro One Internal Use Only

Approved by Hydro One

| | |
|--|------------------------------|
| Authorized Representative: (SDET/ADET) | Number of full rental poles: |
| Operations Centre: | New Permit Number #: |
| | Date Approved: |

Construction Verification Site Visit (check one): Yes No

| | |
|-----------------------------------|-------|
| Performed By: (please print name) | Date: |
|-----------------------------------|-------|

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #13**

2

3 **Interrogatory**

4

5 (a) Are Wireless Attachers required to obtain a permit to install their Wireless
6 Attachments on Joint Use Poles? Does Hydro One charge a separate fee to review
7 and process applications, and issue permits for Wireless Attachments?

8 (b) Are Other Attachers required to obtain a permit to install their Wireless
9 Attachments on Joint Use Poles? Does Hydro One charge a separate fee to review
10 and process applications, and issue permits for Other Attachments?

11

12 **Response**

13

14 (a) Hydro One has no Wireless Telecom attachments on Hydro One-owned poles.

15 (b) Hydro One has no Wireless Telecom attachments on Hydro One-owned poles.

1 **ROGERS COMMUNICATIONS ET AL (The Carriers) INTERROGATORY #14**

2
3 **Interrogatory**

- 4
- 5 (a) Confirm that a request from a Wireline Attacher to install Wireline Attachments on a
6 Joint Use Pole is subject to that Joint Use Pole having sufficient space or structural
7 integrity (*i.e.*, spare capacity). Is the determination of whether there is spare capacity
8 on a Joint Use Pole made solely by Hydro One? If not, please identify any other
9 party that may participate in the determination of whether there is spare capacity on a
10 Joint Use Pole.
- 11 (b) If no spare capacity is available for the Wireline Attachment, confirm that there is a
12 process by which Hydro One will modify or replace the Joint Use Pole to
13 accommodate the Wireline Attachment, subject to the Wireline Attacher paying for
14 the costs associated with such work (“**Make-ready Work**”). Confirm whether any
15 portion of the payments Hydro One receives from Wireline Attachers for Make-ready
16 Work is included in the Average Embedded Cost and Net Embedded Cost of a Joint
17 Use Pole used for the proposed Pole Attachment Fee.
- 18 (c) Further to (b), provide the total annual payments received from Wireline Attachers
19 for Make-ready Work for each of the years 2010 through 2014, and estimated for
20 2015.

21 **Response**

- 22
- 23 (a) The ability to attach is subject to capacity and must be designed to an engineering
24 standard as per Ontario Regulation 22/04 made under the *Electricity Act, 1998*. Spare
25 capacity on a joint use pole is not calculated solely by Hydro One. Spare capacity can
26 be calculated either by the permit applicant’s engineer or Hydro One, using
27 applicable Hydro One standards, information about Hydro One’s pole(s), and
28 information about the permit applicant’s attachments.
- 29 (b) Yes, there is a process to modify or replace the Joint Use pole to accommodate the
30 Wireline Attachment, subject to the Wireline Attacher paying for the Make-ready
31 Work. As indicated in Exhibit I, Tab 4, Schedule 4, part j, Make-ready Work is not
32 included in the Average Embedded Cost and Net Embedded Cost of a Joint Use Pole
33 used for the proposed Pole Attachment Fee.
- 34 (c) The table below is for jobs over \$75,000 only. Hydro One tracks revenue from
35 smaller jobs as part of revenue from all external requests.

| Year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 Estimate |
|-------|-------------|-------------|-------------|-------------|-------------|---------------|
| Total | \$1,555,704 | \$2,722,068 | \$3,578,134 | \$6,474,986 | \$2,345,699 | \$2,025,000 |

