



To provide year-end 2013 value of the number of third-party attachments that Hydro Ottawa has received payment for, whether it be for the full OEB rate, partial rate, or under the Hydro One agreement; also to provide the number of third-party attachments for which Hydro Ottawa received the full OEB rate in 2013.

# Response:

Table 1: Hydro Ottawa - Year-end 2013 third party attachments with an OEB rate

|                            | Number of | % of       | Number of          | Reference        |
|----------------------------|-----------|------------|--------------------|------------------|
|                            | Attachers | OEB rate   | Full Rate          |                  |
|                            |           |            | Equivalent         |                  |
|                            |           |            | Attachers <b>♦</b> |                  |
| Wireline – Full OEB        | 46,173    | 100%       | 46,173             | JTC 1.17         |
| Street lights – Full OEB   | 13,265    | 100%       | 13,265             | IR-Carrier #1(o) |
| Wireline – Clearance       | 1,952     | 50%        | 976                | JTC 1.17         |
| Wireline –                 | 6,957     | 25%        | 1739               | JTC 1.17         |
| Partial/Overlash           |           |            |                    |                  |
| Pre-March 7, 2005          |           |            |                    |                  |
| Wireless                   | 1         | 100% ▲     | 0                  | Transcripts      |
|                            |           |            |                    | Oct 16 page 98   |
| Total Equivalent Attachers |           |            | 62,153             |                  |
| HONI low voltage control   | 391       | 0%         |                    | JTC 1.6          |
| cable                      |           |            |                    |                  |
| HONI power                 | 602       | OEB        |                    | IR-Carrier #1(k) |
|                            |           | power rate |                    |                  |
| Banners                    | 36        | 0%         |                    | IR-Carrier #1(e) |
| RCMP                       | 2         | \$50 per   |                    | Transcripts      |
|                            |           | agreement  |                    | Oct 16 page 62   |

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▲ Hydro Ottawa receives no revenue for this antenna attachment since its attacher is already on that specific pole.

♦ The partial rate attachment equivalent to a full rate is calculated as follows:

Wireline weighted full rate equivalent for clearance/partial/overlash attachers = (1,952/2) + (6,957/4) = 2,715 full equivalents

Full rate equivalent comes from transcripts Sept 30<sup>th</sup>, 2015, page 86 lines 22 – 26 and Oct 16<sup>th</sup>, 2015, page 60 lines 18-24.

Table 2: Hydro Ottawa – Year-end 2013 poles

|   |   | Number of poles | Reference                     |
|---|---|-----------------|-------------------------------|
| а | Total poles with wireline and street lighting | 35,663 ★        | IR-Carrier #1(a)              |
| b | Total poles in-service                        | 48,352          | Transcripts<br>Oct 16 page 46 |
|   |   |                 | line 24                       |

★ Includes poles with wireline full, clearances, partials, overlashes, and street light attachers.

21 <u>Including wireline full rate equivalents:</u>

23 % poles with wireline and street light = 35,663 / 48,352 = 73.8%

24 Attachers per pole = (46,173 + 13,265 + 2,715) / 35,663 = 1.74 attachers / pole



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To explain the difference between the total expressed in the footnote of JTC1.5 with the total arrived at by working through the tables multiplying the number of poles times attachments.

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# Response:

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Revised JTC 1.5 Table 1(f) having expanded totals with values from August 2015.

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| Number of Attachers on the Pole | Number of Poles with<br>Multiple Attachers | Totals |
|---------------------------------|--|--------|
| 7                               | 43   | 301    |
| 6                               | 111  | 666    |
| 5                               | 113  | 565    |
| 4                               | 896  | 3,584  |
| 3                               | 4,031                                      | 12,093 |
| 2                               | 11,080                                     | 22,160 |
| 1                               | 17,595                                     | 17,595 |
| 0                               | 14,043                                     | 0      |
| Total                           | 47,912                                     | 56,964 |

1213

(1) Total of 43,825 wireline attachers

1415

+ (2) Total of 13,516 street light attachers

57,341 wireline & street light attachers

1617

Difference between the footnote total versus Table 1(f) total = 57,341 - 56,964 = 377

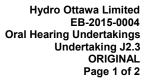
18 19

JTC 1.5 Table 1(f) did not include HONI low voltage cable in the communications space.

2021

JTC 1.5 Table 1(f) footnote (1) did include HONI low voltage cable in the

22 communications space.





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1

To provide the total number of paid <u>attachments</u> and the total number of poles as of August 2015.

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# Response:

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Hydro Ottawa is not paid by attachments but rather by attacher per pole as per the OEB Decision RP-2003-0249, and so, the undertaking response is adjusted accordingly.

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Table 1: Hydro Ottawa - August 2015 third party attachments with an OEB rate

|                            | Number of | % of       | Number of          | Reference        |
|----------------------------|-----------|------------|--------------------|------------------|
|                            | Attachers | OEB rate   | Full Rate          |                  |
|                            |           |            | Equivalent         |                  |
|                            |           |            | Attachers <b>♦</b> |                  |
| Wireline – Full OEB        | 43,825 Δ  | 100%       | 43,825             | JTC 1.7          |
| Street lights – Full OEB   | 13,516    | 100%       | 13,516             | JTC .17          |
| Wireline – Clearance       | 3,565     | 50%        | 1,783              | GIS Oct 2015 •   |
| Wireline –                 | 5,356     | 25%        | 1,339              | GIS Oct 2015 •   |
| Partial/Overlash           |           |            |                    |                  |
| Pre-March 7, 2005          |           |            |                    |                  |
| Wireless                   | 1         | 100% 🔺     | 0                  | Transcripts      |
|                            |           |            |                    | Oct 16 page 98   |
| Total Equivalent Attachers |           |            | 60,463             |                  |
| HONI low voltage control   | 377 ★     | 0%         |                    | JTC 1.6          |
| cable                      |           |            |                    |                  |
| HONI power                 | 602       | 100%       |                    | IR-Carrier #1(k) |
|                            |           | power rate |                    |                  |
| Banners                    | 36        | 0%         |                    | IR-Carrier #1(e) |
| RCMP                       | 2         | \$50 per   |                    | Transcripts      |
|                            |           | agreement  |                    | Oct 16 page 62   |

16 17 ♦ The partial rate attachment equivalent to a full rate is calculated as follows:

Wireline weighted full equivalent for clearance/partial/overlash attachers = (3.565 / 2) + (5.356 / 4) = 3.122 wireline full equivalents

Full rate equivalent comes from transcripts Sept 30<sup>th</sup>, page 86 lines 22 – 26 and Oct 16<sup>th</sup>, page 60 lines 18-24.

- ▲ Hydro Ottawa receives no revenue for this antenna attachment since its attacher is already on that specific pole.
- ★ HONI continues with its low voltage control cable removal program with several removals this summer.
- These categories were not queried in August 2015. October 2015 values would not be materially different from August 2015.

Table 2: Hydro Ottawa - August 2015 poles

|   |  | Number of poles | Reference                     |
|---|--|-----------------|-------------------------------|
| а | Total poles with full wireline and street lighting | 33,869          | JTC 1.7                       |
| b | Wireline full equivalents                          | 1,521           | GIS Oct 2015 •                |
| С | Total poles in-service                             | 48,449          | Transcripts<br>Oct 16 page 49 |
|   |  |                 | Lines 12-21                   |

2122

23

Including wireline full rate equivalents:

2526

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% poles with wireline equivalents and street light = (33,869 + 1,521) / 48,449 = 73.0%

Attachers with wireline equivalents per pole

= (43,825 + 13,516 + 3,122) / (33,869 + 1,521)

29 = 1.71 attachers / pole



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To change the WACC to use the Board-Approved rate from yesterday and apply the pre-tax amount.

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#### Response:

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On October 15, 2015, the Ontario Energy Board released the Cost of Capital Parameter Updates for 2016 Applications. Using these parameters Hydro Ottawa's pre-tax Weighted Average Cost of Capital (WACC) for 2016 to 2020 is shown in Table 1 below:

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Table 1: Hydro Ottawa's pre-tax WACC for 2016 - 2020

| 2016  | 2017  | 2018  | 2019  | 2020  |
|-------|-------|-------|-------|-------|
| 7.04% | 7.07% | 7.11% | 7.15% | 7.17% |

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Applying these percentages to VECC Exhibit #1 (Exhibit Reference K2.3), would impact the following line items as outlined in Table 2 below:

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Table 2: Impact of updated WACC on VECC K2.3 Exhibit

|         | 2016     | 2017     | 2018     | 2019     | 2020     |
|---------|----------|----------|----------|----------|----------|
| Line E2 | \$143.85 | \$155.13 | \$168.02 | \$179.77 | \$191.55 |
| Line G  | \$209.28 | \$225.71 | \$243.90 | \$261.05 | \$278.36 |
| Line H  | \$54.20  | \$58.46  | \$63.17  | \$67.61  | \$72.10  |
| Line I  | \$67.70  | \$72.24  | \$77.24  | \$81.98  | \$86.76  |

1920

With the five year average increasing by \$7.71 to \$77.18.

21

The Ontario Energy Board's Cost of Capital Parameters are attached as Attachment A and VECC Exhibit K2.3 is also attached as Attachment B.

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#### BY E-MAIL AND WEB POSTING

October 15, 2015

To: All Licensed Electricity Distributors and Transmitters

All Gas Distributors

Ontario Power Generation Inc.

All Registered Intervenors in 2016 Cost of Service and Custom Incentive Rate-

setting Applications

# Re: Cost of Capital Parameter Updates for 2016 Applications

The Ontario Energy Board (OEB) has determined the values for the Return on Equity (ROE) and the deemed Long-Term (LT) and Short-Term (ST) debt rates for use in the 2016 applications. The ROE and the LT and ST debt rates are collectively referred to as the Cost of Capital parameters. The updated Cost of Capital parameters are calculated based on the formulaic methodologies documented in the *Report of the Board on the Cost of Capital for Ontario's Regulated Utilities* (the Cost of Capital Report), issued December 11, 2009.

#### **Cost of Capital Parameters for 2016 Rates**

For rates with effective dates in 2016, the OEB has updated the Cost of Capital parameters based on: (i) the September 2015 survey from Canadian banks for the spread over the Bankers' Acceptance rate of 3-month short-term loans for R1-low or A:-(A-stable) commercial customers, for the ST debt rate; and (ii) data three months prior to January 1, 2016 from the Bank of Canada, *Consensus Forecasts*, and Bloomberg LP, for all other Cost of Capital parameters.

The OEB has determined that the updated Cost of Capital parameters for rate applications for rates effective in 2016 are:

| Cost of Capital Parameter | Value for Applications for rate changes in 2016 |
|---------------------------|---|
| ROE                       | 9.19%   |
| Deemed LT Debt rate       | 4.54%   |
| Deemed ST Debt rate       | 1.65%   |

Detailed calculations of the Cost of Capital parameters are attached.

The OEB considers the Cost of Capital parameter values shown in the above table, and the relationships between them, to be reasonable and representative of market conditions at this time.

As documented in the Report of the Board on Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario's Electricity Distributors (EB-2010-0379) issued November 21, 2013, the OEB now updates Cost of Capital parameters for setting rates once per year. For this reason, the Cost of Capital parameters above will be applicable for all cost of service and custom IR applications (as applicable) with rates effective in the 2016 calendar year.

The OEB monitors macroeconomic conditions and may issue updated parameters if economic conditions materially change. An applicant or intervenors can also file evidence in individual rate hearings in support of different Cost of Capital parameters due to the specific circumstances, but must provide strong rationale and supporting evidence for deviating from the OEB's policy.

All queries on the Cost of Capital parameters should be directed to the OEB's Industry Relations hotline, at 416 440 7604 or industryrelations@ontarioenergyboard.ca.

Yours truly,

Original Signed By

Kirsten Walli Board Secretary

Attachment

# Ontario Energy Board Commission de l'Énergie de l'Ontario

# **Attachment: Cost of Capital Parameter Calculations**

(For rate changes effective in 2016) **Cost of Capital Parameter Calculations** Return on Equity and Deemed Long-term Debt Rate

Step 1: Analysis of Business Day Information in the Month

| Month: | Septem    | ber 2015   |          |                |              |            |
|--------|-----------|------------|----------|----------------|--------------|------------|
|        | •         | Во         | nd Yield | ds (%)         | Bond Yield S | preads (%) |
|        |           | Governn    | nent of  | A-rated        | 30-yr Govt   | 30-yr Util |
|        |           | Cana       | ada      | Utility        | over 10-yr   | over 30-yr |
|        | Day       | 10-yr      | 30-yr    | 30-yr          | Govt         | Govt       |
| 1      | 1-Sep-15  | 1.43       | 2.18     | 4.06           | 0.75         | 1.88       |
| 2      | 2-Sep-15  | 1.45       | 2.21     | 4.08           | 0.76         | 1.87       |
| 3      | 3-Sep-15  | 1.46       | 2.22     | 4.09           | 0.76         | 1.87       |
| 4      | 4-Sep-15  | 1.44       | 2.20     | 4.07           | 0.76         | 1.87       |
| 5      | 5-Sep-15  |            |          |                |              | 1 1        |
| 6      | 6-Sep-15  |            |          |                |              | 1 1        |
| 7      | 7-Sep-15  |            |          |                |              |            |
| 8      | 8-Sep-15  | 1.48       | 2.24     | 4.09           | 0.76         | 1.85       |
| 9      | 9-Sep-15  | 1.49       | 2.26     | 4.09           | 0.77         | 1.83       |
| 10     | 10-Sep-15 | 1.49       | 2.26     | 4.09           | 0.77         | 1.83       |
| 11     | 11-Sep-15 | 1.47       | 2.23     | 4.05           | 0.76         | 1.82       |
| 12     | 12-Sep-15 |            |          |                |              |            |
| 13     | 13-Sep-15 |            |          |                |              | 1 1        |
| 14     | 14-Sep-15 | 1.45       | 2.21     | 4.03           | 0.76         | 1.82       |
| 15     | 15-Sep-15 | 1.56       | 2.31     | 4.12           | 0.75         | 1.81       |
| 16     | 16-Sep-15 | 1.59       | 2.33     | 4.13           | 0.74         | 1.80       |
| 17     | 17-Sep-15 | 1.53       | 2.29     | 4.08           | 0.76         | 1.79       |
| 18     | 18-Sep-15 | 1.46       | 2.22     | 4.02           | 0.76         | 1.80       |
| 19     | 19-Sep-15 |            |          |                |              |            |
| 20     | 20-Sep-15 |            |          |                |              | 1 1        |
| 21     | 21-Sep-15 | 1.54       | 2.29     | 4.09           | 0.75         | 1.80       |
| 22     | 22-Sep-15 | 1.48       | 2.23     | 4.03           | 0.75         | 1.80       |
| 23     | 23-Sep-15 | 1.48       | 2.24     | 4.04           | 0.76         | 1.80       |
| 24     | 24-Sep-15 | 1.46       | 2.22     | 4.03           | 0.76         | 1.81       |
| 25     | 25-Sep-15 | 1.53       | 2.27     | 4.11           | 0.74         | 1.84       |
| 26     | 26-Sep-15 |            |          |                |              |            |
| 27     | 27-Sep-15 |            |          | ,              |              |            |
| 28     | 28-Sep-15 | 1.44       | 2.19     | 4.03           | 0.75         | 1.84       |
| 29     | 29-Sep-15 | 1.43       | 2.18     | 4.03           | 0.75         | 1.85       |
| 30     | 30-Sep-15 | 1.45       | 2.21     | 4.06           | 0.76         | 1.85       |
| 31     |           |            |          |                |              |            |
|        |           | 1.48       | 2.24     | 4.07           | 0.756        | 1.831      |
|        | Sources:  | Bank of Ca | nada     | Bloomberg L.P. | 0            | 2          |

| Step 2: 10-Year Government of  | of Canada Bond Yiel | d Forecast                                 |                 |  |
|--|---------------------|--|-----------------|--|
| Source: Consensus<br>Forecasts   | Survey Date:        | September-07                               | -15             |  |
|  | 3-month             | 12-month A                                 | verage          |  |
| September 2015   | 1.700               | 2.200 🔞                                    | 1.950 %         |  |
| Step 3: Long Canada Bond Fo  | orecast             |  |                 |  |
| 10 Year Government of Canad  | a Concensus Foreca  | ast (from ③                                | 1.950 %         |  |
| Step 2)  | 40 0                |  | 0.750.0/        |  |
| Actual Spread of 30-year over<br>Bond Yield (from Step 1)  | 10-year Governmen   | t of Canada ①                              | 0.756 %         |  |
| Bond field (IIom Step 1)   |                     |  |                 |  |
| Long Canada Bond Forecast (  | (LCBF)              | <b>4</b>                                   | 2.706 %         |  |
| Step 4: Return on Equity (ROE  | E) forecast         |  |                 |  |
| Initial ROE  |                     |  | 9.75 %          |  |
| Change in Long Canada Bond<br>LCBF (September 2015) (fro<br>Base LCBF<br>Difference<br>0.5 X Differ  | om Step 3)          | September 2009  3 2.706 % 4.250 % -1.544 % | <u>-0.772</u> % |  |
| Change in A-rated Utility Bond Yield Spread from September 2009 A-rated Utility Bond Yield Spread  (September 2015) (from Step 1) Base A-rated Utility Bond Yield Spread  1.415  % |                     |  |                 |  |
| Difference<br>0.5 X Differ   | rence               | 0.416 %                                    | 0.208 %         |  |
| Return on Equity based on  | September 2015 da   | ata  | 9.19 %          |  |
| Step 5: Deemed Long-term D   | ebt Rate Forecast   |  |                 |  |
| Long Canada Bond Forecast f<br>3)  | or September 2015   | (from Step 4                               | 2.706 %         |  |
| A-rated Utility Bond Yield Spre  | ad September 2015   | (from Step ②                               | 1.831 %         |  |

Deemed Long-term Debt Rate based on September 2015 data

4.54 %

#### Ontario Energy Board Commission de l'Énergie de l'Ontario

# **Attachment: Cost of Capital Parameter Calculations**

(For rate changes effective in 2016)

Cost of Capital Parameter Calculations

Deemed Short-term Debt Rate

Step 1: Average Annual Spread over Bankers
Acceptance

Once a year, in September, Board staff contacts prime Canadian banks to get estimates for the spread of short-term (typically 90-day) debt issuances over Bankers' Acceptance rates. Up to six estimates are provided.

| A. |        | Average Spread<br>over 90-day<br>Bankers<br>Acceptance |     | Date of input |
|----|--------|--|-----|---------------|
|    | Bank 1 | 100.0  | bps | Sept., 2015   |
|    | Bank 2 | 100.0  | bps | Sept., 2015   |
|    | Bank 3 | 82.5   | bps | Sept., 2015   |
|    | Bank 4 | 100.0  | bps | Sept., 2015   |
|    | Bank 5 | 80.0   | bps | Sept., 2015   |
|    | Bank 6 |  |     |               |

| B. | Discard high and low<br>If less than 4 estimate<br>and low. | estimates<br>s, take average without discarding high |
|----|---|--|
|    | Number of estimates   | 5  |
|    | High estimate   | 100.0 bps  |
|    | Low estimate  | 80.0 bps   |
|    |   |  |
| C. | Average annual  | 94.167 bps •   |

Step 3: Deemed Short-Term Debt Rate Calculation

Spread

Calculate Deemed Short-term debt rate as sum of average annual spread (Step 1) and average 3-month Bankers' Acceptance Rate (Step 2)

| Average Annual<br>Spread            | 0.942 % | 0 |
|-------------------------------------|---------|---|
| Average Bankers'<br>Acceptance Rate | 0.712 % | 2 |
| Deemed Short<br>Term Debt Rate      | 1.65 %  |   |

**Step 2:** Average 3-month Bankers' Acceptance Rate

Calculation of Average 3-month Bankers'
Acceptance Rate during month of September
2015

|   | _                      | 2 1 22/5                           |    |  |  |  |
|---|------------------------|------------------------------------|----|--|--|--|
| Month:                                    |                        | September 2015                     |    |  |  |  |
|   |                        | Bankers'<br>Acceptance<br>Rate (%) |    |  |  |  |
| D   | ay                     | 3-month                            |    |  |  |  |
| 1   | 1-Sep-15               | 0.68                               | %  |  |  |  |
| 2   | 2-Sep-15               | 0.68                               | %  |  |  |  |
| 3   | 3-Sep-15               | 0.68                               | %  |  |  |  |
| 4   | 4-Sep-15               | 0.68                               | %  |  |  |  |
| 5   | 5-Sep-15               |                                    |    |  |  |  |
| 6   | 6-Sep-15               |                                    |    |  |  |  |
| 7   | 7-Sep-15               |                                    |    |  |  |  |
| 8   | 8-Sep-15               | 0.68                               | %  |  |  |  |
| 9   | 9-Sep-15               | 0.68                               | %  |  |  |  |
|   | 10-Sep-15              | 0.70                               | %  |  |  |  |
|   | 11-Sep-15              | 0.71                               | %  |  |  |  |
|   | 12-Sep-15              |                                    |    |  |  |  |
|   | 13-Sep-15              |                                    | ٠, |  |  |  |
|   | 14-Sep-15              | 0.72                               |    |  |  |  |
|   | 15-Sep-15              | 0.72                               |    |  |  |  |
|   | 16-Sep-15              | 0.73                               |    |  |  |  |
|   | 17-Sep-15              | 0.73<br>0.72                       |    |  |  |  |
|   | 18-Sep-15<br>19-Sep-15 | 0.72                               | 70 |  |  |  |
|   | 20-Sep-15              |                                    |    |  |  |  |
|   | 21-Sep-15              | 0.73                               | %  |  |  |  |
|   | 22-Sep-15              | 0.73                               |    |  |  |  |
|   | 23-Sep-15              | 0.72                               |    |  |  |  |
| -   | 24-Sep-15              | 0.73                               |    |  |  |  |
| 25 2                                      | 25-Sep-15              | 0.73                               | %  |  |  |  |
| 26 2                                      | 26-Sep-15              |                                    |    |  |  |  |
| 27 2                                      | 27-Sep-15              |                                    |    |  |  |  |
|   | 28-Sep-15              | 0.73                               | %  |  |  |  |
| 29 2                                      | 29-Sep-15              | 0.73                               |    |  |  |  |
|   | 30-Sep-15              | 0.74                               | %  |  |  |  |
| 31  |                        |                                    | ,  |  |  |  |
|   |                        | 0.712                              | %  |  |  |  |
| 2   |                        |                                    |    |  |  |  |
| Source Bank of Canada / Statistics Canada |                        |                                    |    |  |  |  |
| Series V39071                             |                        |                                    |    |  |  |  |

#### **Reference on Calculation Method:**

• Appendix D of the Report of the Board on Cost of Capital for Ontario's Regulated Utilities, issued December 11, 2009.

K 2.3

# VECC EXHIBIT #1

# SPECIFIC CHARGE FOR POLE ACCESS HYDRO OTTAWA METHODOLOGY USING FORECAST COSTS AND INPUT VALUES

| Line i   | <u>Item</u>                           | 2013              | <u>2016</u>       | <u>2017</u>       | <u>2018</u>       | <u>2019</u>       | 2020              | Basis for 2016-2-2020 Forecast   |
|----------|---------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Α        | Direct Cost                           | \$12.68           | \$13.50           | \$13.78           | \$14.07           | \$14.36           | \$14.67           | 2013-2020: 2.1%/annum per Carriers<br>#18                              |
| В        | NBV-Year End (M)                      | \$75.27           | \$96.96           | \$103.74          | \$111.31          | \$117.99          | \$124.90          | Settlement Proposal - Appendix 2-BA                                    |
| С        | In-Service Poles                      | 47,978            | 47,453            | 47,278            | 47,103            | 46,928            | 46,753            | 2013 Count Reduced by 175/year per<br>Carriers #11 f)                  |
| D        | NBV / Pole                            | \$1,568.81        | \$2,043.31        | \$2,194.19        | \$2,363.14        | \$2,514.26        | \$2,671.59        | B/C  |
| E1<br>E2 | Carrying Cost (%) Carrying Cost/Pole  | 6.70%<br>\$105.11 | 5.78%<br>\$118.10 | 5.81%<br>\$127.48 | 5.85%<br>\$138.24 | 5.89%<br>\$148.09 | 5.90%<br>\$157.62 | Settlement Proposal - RRWFs<br>D * E-1                                 |
| F1<br>F2 | Depreciation (M\$) Depreciation/Pole  | \$1.98<br>\$41.26 | \$2.55<br>\$53.78 | \$2.77<br>\$58.67 | \$3.00<br>\$63.69 | \$3.23<br>\$68.82 | \$3.46<br>\$74.06 | Settlement Proposal - Appendix 2-AB F1/C                               |
| G1       | Maintenance (K\$)                     | \$605.08          | \$552.59          | \$563,15          | \$573.90          | \$584.86          | \$596.03          | Settlement Proposal - Cost Allocation<br>Models, Tab I3, Account #5120 |
| G2       | Maintenance/Pole                      | \$12.61           | \$11.65           | \$11.91           | \$12.18           | \$12.46           | \$12.75           | G1/C   |
| G        | Total Indirect Cost/Pole              | \$158.98          | \$183.53          | \$198.07          | \$214.12          | \$229.37          | \$244.43          | E2+F2+G2   |
| Н        | Indirect Cost Allocation per Attacher | \$41.18           | \$47.53           | \$51.30           | \$55.46           | \$59.41           | \$63.31           | G * 25.9%  |
| 1        | Total Cost per Attacher               | \$53.86           | \$61.03           | \$65.08           | \$69.53           | \$73.77           | \$77.97           | A+H  |
|          | Five Year Average                     |                   |                   |                   | \$69.48           |                   |                   |  |