

# EXHIBIT 7: COST ALLOCATION

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#### 1 7.1 COST ALLOCATION STUDY

#### 2 7.1.1 OVERVIEW OF COST ALLOCATION

3 CNPI has prepared and is filing a cost allocation study consistent with its understanding of the Directions

4 and Policies in the Board's Reports of November 28, 2007 Application of Cost Allocation for Electricity

5 Distributors and March 31, 2011 Review of Electricity Distribution Cost Allocation Policy (EB-2010-0219)

6 (the "Cost Allocation Reports") and all subsequent updates.

- 7 CNPI used Version 1.0 of the OEB's 2021 Cost Allocation Model, issued May 14, 2020. Inputs to the
- 8 model reflect CNPI's 2022 Test Year revenue requirement, CNPI's 2022 load forecast, and other

9 requirements outlined in the Cost Allocation Reports. CNPI scaled its class load profiles from its previous

10 cost of service applications, for the reasons discussed in Section 7.1.3 below.

11 Consistent with CNPI's 2017 cost of service application, the cost allocation study was completed on a

12 harmonized basis for CNPI's Fort Erie, Eastern Ontario Power, and Port Colborne service areas, following

13 distribution rate harmonization in 2016. CNPI's 2017 OEB-approved revenue-to-cost ratios ("R/C

- 14 ratios") are summarized in the following table:
- 15

#### Table 7 - 1: 2017 OEB-Approved Revenue-to-Cost Ratios

| 2017 Approved<br>R/C Ratio |  |  |  |  |
|----------------------------|--|--|--|--|
| 95%                        |  |  |  |  |
| 109%                       |  |  |  |  |
| 108%                       |  |  |  |  |
| 100%                       |  |  |  |  |
| 120%                       |  |  |  |  |
| 104%                       |  |  |  |  |
| 95%                        |  |  |  |  |
|                            |  |  |  |  |

16

- 17 No adjustments to CNPI's revenue-to-cost ratios were required during the 2018-2021 Incentive Rate
- 18 Mechanism (IRM) years, since the 2017 OEB-approved R/C ratios were all within the OEB's policy ranges.

19 Section 7.2 of this Exhibit provides the results of CNPI's 2022 cost allocation study. Status quo R/C ratios

- 20 continue to remain within the OEB's policy ranges for all classes except Street Lighting, where a
- reallocation of costs is required to bring the class revenue down to the 120% upper limit.
- 22

#### 1 7.1.2 COST ALLOCATION MODEL – SUMMARY OF INPUTS

- 2 CNPI populated the information in Sheet I3, Trial Balance Data with the 2022 forecasted trial balance
- 3 amounts that are consistent with Exhibits 2 through 6. Entries for target net income, PILs, interest on
- 4 long term debt, and 2022 Test Year proposed revenue requirement and rate base are all consistent with
- 5 the Revenue Requirement Work Form (RRWF) cells referenced in Sheet I3.
- 6 In Sheet I4, Break-out of Assets, CNPI updated contribution, depreciation and amortization expense
- 7 values based on 2022 forecasted values. Rate base amounts associated with poles, overhead
- 8 conductors and devices, and underground conductors and devices, were broken out into primary and
- 9 secondary costs only, consistent with CNPI's 2017 cost allocation study.
- 10 In Sheet I5.1, Miscellaneous Data, CNPI entered 2022 Test Year values for the deemed equity
- 11 component of rate base and working capital allowance consistent with values presented throughout the
- 12 current Application. Values for structure km and the proportion of pole rental revenue from secondary
- poles are consistent with CNPI's 2017 cost allocation study, adjusted for a marginal increase in structure
- 14 km since 2017.
- 15 CNPI confirms that it used LDC-specific weighting factors in Sheet I5.2, Weighting Factors, instead of
- 16 continuing to use the OEB's previous default factors. Further discussion of these weighting factors is
- 17 provided in Section 7.1.4 below.
- 18 Sheet I6.1 contains updated load forecast details by rate class, consistent with CNPI's 2022 Test Year
- 19 load forecast, as presented in Exhibit 3 of the Application. The existing rates entered in this sheet reflect
- 20 the rates approved in CNPI's 2021 IRM application.
- 21 Sheet I6.2 has been updated with the required Bad Debt and Late Payment revenue data for historical
- 22 years, as well as the number of customers (and connections, where applicable), consistent with CNPI's
- 23 2022 Test Year load forecast, as presented in Exhibit 3.
- 24 CNPI updated the capital cost per meter information in Sheet I7.1 and the meter reading information in
- 25 Sheet 17.2 to reflect its completed deployment of smart meters and MIST meters, with consideration of
- 26 additional metering activity in recent years.
- 27 The demand data entered in Sheet I8, Demand Data, reflects the continued use of the load profiles
- 28 previously provided by Hydro One, scaled for consistency with CNPI's 2022 load forecast. The
- 29 calculation of the scaling factor, and the rationale for continued use of the Hydro One load profiles in
- 30 provided in Section 7.1.3 below.
- A live Excel version of OEB's Cost Allocation Model has been filed along with this Application. CNPI
- 32 confirms that it has also populated sheets 11 and 12 of the OEB's Revenue Requirement Work Form
- 33 consistent with the output of the cost allocation model.

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#### 1 7.1.3 LOAD PROFILES

- 2 Section 2.7.1 of the Filing Requirements indicates that distributors should make best efforts to update
- all classes' load profiles using the most recent available data. In recent years, CNPI was an active
- 4 participant in a Demand Profile Working Group coordinated by Utilities Standards Forum (USF). The USF
- 5 working group ultimately developed a cost-effective methodology for weather-normalizing interval data
- 6 for the purpose of updating load profiles. The USF Demand Profile Methodology was ultimately
- 7 advanced by Wellington North Power in EB-2020-0061.
- 8 In preparing this Application, CNPI determined that it had suitable interval data for all rate classes
- 9 available for the period beginning September 26, 2018. CNPI determined that smart meter data interval

10 data prior to this date was archived in a format that made it cost-prohibitive to extract and compile the

- 11 data in a workable format.
- 12 CNPI believes that an important concept within the USF Demand Profile Methodology is that the
- 13 weather-normalized non-coincident peak (NCP) and coincident peak (CP) results for more than one year
- 14 are averaged for the purpose of determining updated NCP and CP inputs to the OEB's Cost Allocation
- model. As a result of the data limitations discussed above, CNPI did not have a complete data set for
- 16 2018, leaving 2019 and 2020 as the two years to which the USF Demand Profile Methodology could be
- 17 applied. Due to the material shift in load between rate classes resulting from the COVID-19 pandemic
- 18 (see Exhibit 3), CNPI does not consider 2020 interval data to be representative of past or future load
- 19 profiles. As a result of these circumstances, CNPI was unable to use the USF Demand Profile
- 20 Methodology.
- 21 In an attempt to overcome the limitations discussed above, CNPI attempted to develop a regression
- 22 analysis of class-specific interval data, with hourly weather data as the independent variables. CNPI
- 23 started this analysis with residential rate class, using hourly weather information available at the
- 24 Pearson Airport in Toronto. CNPI observed poor statistical results on an hourly basis, both before and
- 25 after attempting to introduce other variables similar to those included in its load forecast.
- 26 CNPI intends to extract and archive smart meter data in a format that facilitates analysis for future cost
- allocation studies and therefore expects to have a complete data set spanning the 2019-2025 period at
- the time of filing its next cost of service application in 2026. In order to update its demand inputs for the
- 29 2022 Test Year, CNPI used the values from its previous cost allocation study, with values for each
- 30 customer class scaled by the ratio of 2022 to 2017 load forecasts as illustrated in Table 7 2 below.

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#### Table 7 - 2: CP and NCP Scaling Factors

|                    | Residential | General Service<br>< 50 kW | General Service<br>50 to 4,999 kW | Street<br>Light | Sentinel<br>Light | USL       | Embedded<br>Distributor |
|--------------------|-------------|----------------------------|-----------------------------------|-----------------|-------------------|-----------|-------------------------|
| 2017 Approved kWh  | 201,294,289 | 69,390,323                 | 190,144,345                       | 2,991,556       | 629,014           | 1,462,761 | 5,205,754               |
| 2022 Test Year kWh | 207,937,091 | 66,588,571                 | 176,291,005                       | 1,449,102       | 514,043           | 1,340,169 | 5,185,553               |
| Scaling Factor     | 1.03        | 0.96                       | 0.93                              | 0.48            | 0.82              | 0.92      | 1.00                    |

2

#### 3 7.1.4 WEIGHTING FACTORS

4 As part of its 2013 and 2017 cost allocation studies, CNPI developed and reviewed weighting factors

5 based on input from staff with knowledge of each particular cost element. These weighting factors and

6 supporting rationale were further reviewed during the preparation of the 2022 cost allocation study and

7 updated where required. The weighting factors summarized below are input in Sheet I5.2 of the OEB

8 cost allocation model.

#### 9 WEIGHTING FACTOR FOR SERVICES ACCOUNT 1855

- 10 The weighting factors are consistent with the values used in CNPI's previous cost allocation studies,
- 11 which were based on analysis of the relative material costs and labour effort required to connect a new
- 12 service for a typical customer within each rate class. When the Embedded Distributor customer class
- 13 was established in CNPI's 2017 cost of service application, it was assigned the same weighting factors
- 14 throughout the cost allocation as the General Service 50 to 4,999 class. In the current application CNPI
- 15 zeroed out the Account 1855 weighting factor for the Embedded Distributor class to reflect that this is a
- 16 primary metered account and none of the components at the demarcation point would be included in
- 17 Account 1855.

#### 18 WEIGHTING FACTORS FOR BILLING AND COLLECTING

- 19 Weighting factors for billing and collecting were previously derived through input from customer service
- 20 supervisors related to the relative billing complexity between various rate classes. For its 2022 cost
- allocation study, CNPI undertook additional analysis of the costs recorded in Accounts 5315, 5320 and
- 22 5340 are and determined that in addition to billing complexity, cost drivers should also include the
- 23 following:

25

- Number of meters
  - Number of bills (without regard to billing complexity)
- Bad debt

For each cost driver, Table 7 - 3 below summarizes the allocation factor applicable to each customer
class, using an average of 2017-2020 actual data.

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#### **General Service General Service** Street Sentinel Embedded Residential USL Total < 50 kW 50 to 4,999 kW Distributor Light Light Average # of Accounts 2017-2020 Average 26,564 2,502 195 14 36 48 1 29,360 % Allocator 90.5% 8.5% 0.7% 0.0% 0.1% 0.2% 0.0% 100% # of Retail Meters 2017-2020 Average 26,564 2,502 195 0 0 0 1 29,261 % Allocator 90.8% 0.7% 0.0% 0.0% 0.0% 0.0% 100% 8.5% # of Bills 2017-2020 Average 318,768 30,020 2,338 173 436 572 12 352,317 % Allocator 90.5% 8.5% 0.7% 0.0% 0.1% 0.2% 0.0% 100% Weighting Factor (2017) 1.00 1.00 5.00 1.80 0.90 1.25 5.00 **Bill Complexity** (# of Bills x 2017 Weighting) 2017-2020 Average 318,768 30,020 311 392 714 11,688 60 361,953 % Allocator 88.1% 8.3% 3.2% 0.1% 0.1% 0.2% 0.0% 100% **Bad Debt** 2017-2020 Average \$164,788 \$8,815 \$2,290 \$0 \$0 \$0 \$0 175,892 % Allocator 93.7% 5.0% 1.3% 0.0% 0.0% 0.0% 0.0% 100%

#### Table 7 - 3: Billing and Collecting – Allocation Factors by Cost Driver

2

1

3 Table 7 - 4 summarizes the calculation of the 2022 cost allocation weighting factors that result from

4 applying the various cost driver factors to the costs in Accounts 5315, 5320 and 5340.

5

#### Table 7 - 4: Billing and Collecting – Determination of Weighting Factors

|   | 2017-2020<br>Avg | Residential | General Service<br>< 50 kW | General Service<br>50 to 4,999 kW | Street<br>Light | Sentinel<br>Light | USL     | Embedded<br>Distributor | Total              |  |  |
|---|------------------|-------------|----------------------------|-----------------------------------|-----------------|-------------------|---------|-------------------------|--------------------|--|--|
| Rate Class Allocations by Cost Driver     |                  |             |                            |                                   |                 |                   |         |                         |                    |  |  |
| # of Meters                               | \$42,797         | \$38,852    | \$3,659                    | \$285                             | \$0             | \$0               | \$0     | \$1                     | \$42,797           |  |  |
| # of Bills                                | \$388,272        | \$351,299   | \$33,084                   | \$2,576                           | \$190           | \$480             | \$630   | \$13                    | \$388,272          |  |  |
| Bill Complexity                           | \$509,215        | \$448,460   | \$42,234                   | \$16,443                          | \$437           | \$552             | \$1,005 | \$84                    | \$509,215          |  |  |
| Bad Debt                                  | \$273,197        | \$255,950   | \$13,691                   | \$3,556                           |                 |                   |         |                         | \$273 <i>,</i> 197 |  |  |
| Total                                     | \$1,213,481      | \$1,094,560 | \$92,667                   | \$22,860                          | \$627           | \$1,033           | \$1,635 | \$99                    | \$1,213,481        |  |  |
|   |                  |             |                            |                                   |                 |                   |         |                         |                    |  |  |
| Calculate Billing and Collec              | ting Factors     |             |                            |                                   |                 |                   |         |                         |                    |  |  |
| Avg Annual Acct 5315,<br>5320, 5340 Costs |                  | \$1,094,560 | \$92,667                   | \$22,860                          | \$627           | \$1,033           | \$1,635 | \$99                    | \$1,213,481        |  |  |
| Avg Annual # of Bills                     |                  | 318,768     | 30,020                     | 2,338                             | 173             | 436               | 572     | 12                      | 352,317            |  |  |
| Average Annual Cost/Bill                  |                  | \$3.43      | \$3.09                     | \$9.78                            | \$3.63          | \$2.37            | \$2.86  | \$8.26                  | \$3.44             |  |  |
| Weighting Factor<br>(Residential = 1.0)   |                  | 1.00        | 0.90                       | 2.85                              | 1.06            | 0.69              | 0.83    | 2.41                    |                    |  |  |

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#### 1 7.1.5 SELECTED INPUT AND OUTPUT SHEETS

- 2 In accordance with the Filing Requirements, distributors using the OEB-issued model must file a hard
- 3 copy of input sheets I6 and I8, and output sheets O1 and O2 (first page only). The required information
- 4 is included as Appendix 7-A to this Exhibit.
- 5 Sections 7.2.1 and 7.2.2 below provide an analysis and summary of the results from the 2020 cost
- 6 allocation study contained in output sheets O1 and O2.

#### 7 7.1.6 SPECIFIC CUSTOMER CLASSES

- 8 Information in this section addresses OEB policy guidance on cost allocation matters for specific
- 9 customer classes, as outlined in Section 2.7.1.1 of the Filing Requirements.

#### 10 EMBEDDED DISTRIBUTOR CLASS

- 11 CNPI supplies Hydro One Networks Inc. ("HONI") as an embedded distributor within its Port Colborne
- 12 service area, using distribution assets that also serve other CNPI customers (i.e. these assets are not
- 13 dedicated to supplying HONI as an embedded distributor). In CNPI's 2017 cost of service application (EB-
- 14 2016-0061), HONI requested that CNPI establish a separate embedded distributor rate, and CNPI
- 15 proceeded with its 2017 cost allocation study and rate design on that basis. CNPI has billed HONI as an
- 16 embedded distributor since 2017 and proposes to continue to maintain a distinct Embedded Distributor
- 17 class for cost allocation and rate design purposes in this Application.
- 18 CNPI informed HONI of its intent to use cost allocation and rate design methodologies consistent with its
- 19 2017 cost of service application, subject to revisions to Embedded Distributor weighting factors as
- 20 discussed above. CNPI also informed HONI of the results of its cost allocation study and rate design
- 21 process prior to filing the Application.

#### 22 UNMETERED LOADS (INCLUDING STREET LIGHTING)

- 23 CNPI acknowledges the OEB's 2015 change in cost allocation policy for the Street Lighting rate class, and
- confirms that the "street lighting adjustment factor" has been appropriately calculated by the OEB cost
- allocation model. CNPI implemented the required changes to cost allocation for its street lighting rate
- class in its 2017 cost allocation study, which was discussed with customers at that time. The 2022 cost
- allocation methodology is unchanged from the 2017 methodology.
- 28 The decrease in costs allocated to the Street Lighting customer class in 2022 results from lower demand
- 29 determinants following conversions to LED lighting. As a result of the decreased cost allocation, R/C
- 30 ratios were rebalanced to bring the Street Lighting class back to the OEB policy range, resulting in
- 31 decreased rates.

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#### 1 MICROFIT

- 2 CNPI applies the OEB's generic rate of \$4.35 per month. In accordance with the Filing Requirements
- 3 CNPI has not included microFIT as a separate class in the cost allocation model.

#### 4 STANDBY RATES

- 5 Standby customers are not a distinct customer class within CNPI's cost allocation study since these
- 6 customers are billed as General Service 50 to 4,999 kW customers, with the standby rate applying to
- 7 contracted capacity that is not utilized in a given month. CNPI has determined that a full review of its
- 8 standby charge methodology would be preferable to requesting that its existing standby charge be
- 9 made final, as further detailed in Exhibit 8.

#### 10 NEW OR ELIMINATED CUSTOMER CLASSES

11 CNPI is not proposing to add any new customer classes or eliminate any existing customer classes in this

12 Application.

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#### **1** 7.2 COST ALLOCATION RESULTS AND ANALYSIS

#### 2 7.2.1 CLASS REVENUE REQUIREMENTS

3 Table 7 - 5 summarizes CNPI's allocated costs by rate class, based on the results of CNPI's 2022 Test Year

4 cost allocation study. The output from the OEB's Cost Allocation Model presented below are consistent

5 with values populated in Table A (column "7A") and Table B (column "7E") on Sheet 11 of the RRWF.

6

| Table 7 - 5: Allocated | <b>Costs by Rate Class</b> |
|------------------------|----------------------------|
|------------------------|----------------------------|

| Customer Class       | Service RR | Misc Rev  | Base RR    |  |  |
|----------------------|------------|-----------|------------|--|--|
| Residential          | 15,195,555 | 928,059   | 14,267,495 |  |  |
| GS < 50              | 2,832,293  | 142,905   | 2,689,388  |  |  |
| GS 50 to 4,999 kW    | 4,842,632  | 235,421   | 4,607,211  |  |  |
| Embedded Distributor | 153,933    | 8,690     | 145,243    |  |  |
| Street Light         | 297,981    | 17,960    | 280,021    |  |  |
| Sentinel Light       | 59,412     | 3,841     | 55,571     |  |  |
| USL                  | 77,155     | 4,375     | 72,780     |  |  |
| Total                | 23,458,959 | 1,341,251 | 22,117,708 |  |  |

7

8 Table 7 - 6, summarizes CNPI's calculated 2022 distribution revenue by rate class, under four scenarios:

9 (a) existing rates applied to CNPI's 2022 Test Year load forecast; (b) the base revenue requirement

10 allocation resulting from the 2022 Cost Allocation Model; (c) prorating existing rates applied to CNPI's

11 2022 Test Year load forecast to yield the Test Year base revenue requirement (the "Status Quo"

scenario); and (d) CNPI's proposed class revenues for the 2022 Test Year following the revenue-to-cost

13 ratio adjustments discussed in Section 7.2.3.

14

#### Table 7 - 6: Distribution Revenue (Base Revenue Requirement) Allocation by Rate Class

| Customer Class       | Current Rates |        | OEB CA Mode | l Results | Status-Quo | Rates  | Proposed Rates |        |  |
|----------------------|---------------|--------|-------------|-----------|------------|--------|----------------|--------|--|
| Customer Class       | \$            | %      | \$          | %         | \$         | %      | \$             | %      |  |
| Residential          | 12,219,333    | 62.47% | 14,267,495  | 64.51%    | 13,817,788 | 62.47% | 13,859,017     | 62.66% |  |
| GS < 50              | 2,664,429     | 13.62% | 2,689,388   | 12.16%    | 3,012,973  | 13.62% | 3,012,973      | 13.62% |  |
| GS 50 to 4,999 kW    | 4,094,805     | 20.94% | 4,607,211   | 20.83%    | 4,630,462  | 20.94% | 4,630,462      | 20.94% |  |
| Embedded Distributor | 126,194       | 0.65%  | 145,243     | 0.66%     | 142,702    | 0.65%  | 142,702        | 0.65%  |  |
| Street Light         | 336,789       | 1.72%  | 280,021     | 1.27%     | 380,846    | 1.72%  | 339,617        | 1.54%  |  |
| Sentinel Light       | 52,357        | 0.27%  | 55,571      | 0.25%     | 59,206     | 0.27%  | 59,206         | 0.27%  |  |
| USL                  | 65,202        | 0.33%  | 72,780      | 0.33%     | 73,732     | 0.33%  | 73,732         | 0.33%  |  |
| Total                | 19,559,110    | 100%   | 22,117,708  | 100%      | 22,117,708 | 100%   | 22,117,708     | 100%   |  |

15

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#### 1 7.2.2 REVENUE-TO-COST RATIOS

Table 7 - 7, which is reproduced from Table 7C on Sheet 11 of the RRWF, compares CNPI's 2017
 approved R/C ratios to two scenarios: (a) R/C ratios resulting from the class revenue associated with

4 Status Quo scenario outlined in the previous section; and (b) CNPI's proposed R/C ratios for the 2022

5 Test Year adjusted to ensure all rate classes fall within the OEB's policy ranges as discussed in Section

6 7.2.3.

#### 7

#### Table 7 - 7: Revenue-to-Cost Ratio Summary

| Customer Class       | 2017 Approved | Status Quo | Proposed | Policy<br>Range |
|----------------------|---------------|------------|----------|-----------------|
| Residential          | 95.06%        | 97.04%     | 97.31%   | 85 - 115        |
| GS < 50              | 109.35%       | 111.42%    | 111.42%  | 80 - 120        |
| GS 50 to 4,999 kW    | 107.60%       | 100.48%    | 100.48%  | 80 - 120        |
| Embedded Distributor | 100.00%       | 98.35%     | 98.35%   | 80 - 120        |
| Street Light         | 120.00%       | 133.84%    | 120.00%  | 80 - 120        |
| Sentinel Light       | 103.78%       | 106.12%    | 106.12%  | 80 - 120        |
| USL                  | 95.05%        | 101.23%    | 101.23%  | 80 - 120        |

8

#### 9 7.2.3 REBALANCING REVENUE-TO-COST RATIOS

10 The Status Quo revenue-to-cost ratio of 133.84% for the Street Lighting rate class is above the OEB's

11 policy range of 80-120%. The status quo R/C ratios for all other rate classes are within the OEB's

12 applicable policy ranges.

13 CNPI therefore proposes to rebalance its R/C ratios for the 2022 Test Year such that the ratio for the

14 Street Lighting class is reduced to the upper limit of the OEB's policy range (i.e. 120%). In order to

achieve this rebalancing, CNPI has reduced the amount of revenue requirement allocated to the Street

16 Lighting customer class by \$41,229 as compared to the amount that would be recovered through the

use of Status Quo rates. In order to maintain revenue neutrality, an equivalent amount is added to the

allocation to the Residential customer class, since this class has the lowest R/C ratio out of any other

19 class. The proposed reallocation is shown in the following table:

20

 Table 7 - 8: Revenue Reallocation to Achieve Proposed Revenue-to-Cost Ratios

| Customer Class | \$ Reallocation |
|----------------|-----------------|
| Residential    | 41,229          |
| Street Light   | (41,229)        |
| Total          | 0               |



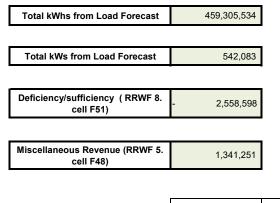
# APPENDIX 7-A: COST ALLOCATION MODEL (SELECTED SHEETS)

Ontario Energy Board

## **2021 Cost Allocation Model**

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Sheet I6.1 Revenue Worksheet -



|   |          |             | 1           | 2          | 3                    | 7            | 8        | 9                           | 10                      |
|---|----------|-------------|-------------|------------|----------------------|--------------|----------|-----------------------------|-------------------------|
|   | ID       | Total       | Residential | GS <50     | GS 50 to 4,999<br>kW | Street Light | Sentinel | Unmetered<br>Scattered Load | Embedded<br>Distributor |
| Billing Data  |          |             |             |            |                      |              |          |                             |                         |
| Forecast kWh  | CEN      | 459,305,534 | 207,937,091 | 66,588,571 | 176,291,005          | 1,449,102    | 514,043  | 1,340,169                   | 5,185,553               |
| Forecast kW   | CDEM     | 542,083     | -           | -          | 522,202              | 4,403        | 1,615    | -                           | 13,863                  |
| Forecast kW, included in CDEM, of<br>customers receiving line transformer<br>allowance<br>Optional - Forecast kWh, included in                              |          | 296,494     | -           | -          | 296,494              | -            | -        | -                           | -                       |
| CEN, from customers that receive a<br>line transformation allowance on a<br>kWh basis. In most cases this will not<br>be applicable and will be left blank. |          | _           |             |            |                      |              |          |                             |                         |
| KWh excluding KWh from Wholesale<br>Market Participants   | CEN EWMP | 459,305,534 | 207,937,091 | 66,588,571 | 176,291,005          | 1,449,102    | 514,043  | 1,340,169                   | 5,185,553               |
|   |          |             |             |            |                      |              |          |                             |                         |
| Existing Monthly Charge   |          |             | \$37.40     | \$31.58    | \$169.70             | \$4.09       | \$5.70   | \$49.79                     | \$610.63                |
| Existing Distribution kWh Rate<br>Existing Distribution kW Rate   |          |             | \$0.0000    | \$0.0257   | \$7.4535             | \$8.8982     | \$6.5951 | \$0.0271                    | \$8.5743                |

| Existing TOA Rate               |      |              |              |             | \$0.60      |           |          |               |           |
|---------------------------------|------|--------------|--------------|-------------|-------------|-----------|----------|---------------|-----------|
| Additional Charges              |      |              |              |             |             |           |          | (\$88,222.18) |           |
| Distribution Revenue from Rates |      | \$19,737,007 | \$12,219,333 | \$2,664,429 | \$4,272,702 | \$336,789 | \$52,357 | \$65,202      | \$126,194 |
| Transformer Ownership Allowance |      | \$177,896    | \$0          | \$0         | \$177,896   | \$0       | \$0      | \$0           | \$0       |
| Net Class Revenue               | CREV | \$19,559,110 | \$12,219,333 | \$2,664,429 | \$4,094,805 | \$336,789 | \$52,357 | \$65,202      | \$126,194 |
|                                 |      |              |              |             |             |           |          |               |           |
|                                 |      |              |              |             |             |           |          |               |           |

Ontario Energy Board

### 2021 Cost Allocation Model

#### EB-2021-0011 Sheet I6.2 Customer Data Worksheet -

|                                    |      |           | 1           | 2         | 3                    | 7            | 8        | 9                           | 10                      |
|------------------------------------|------|-----------|-------------|-----------|----------------------|--------------|----------|-----------------------------|-------------------------|
|                                    | ID   | Total     | Residential | GS <50    | GS 50 to 4,999<br>kW | Street Light | Sentinel | Unmetered<br>Scattered Load | Embedded<br>Distributor |
| Billing Data                       |      |           |             |           |                      |              |          |                             |                         |
| Bad Debt 3 Year Historical Average | BDHA | \$162,317 | \$153,185   | \$8,393   | \$740                | \$0          | \$0      | \$0                         | \$0                     |
| Late Payment 3 Year Historical     |      |           |             |           |                      |              |          |                             |                         |
| Average                            | LPHA | \$160,566 | \$122,546   | \$13,279  | \$24,568             | \$48         | \$21     | \$105                       | \$0                     |
| Number of Bills                    | CNB  | 360,323   | 326,720     | 30,180.58 | 2,242.03             | 168.00       | 420.00   | 580.11                      | 12.00                   |
| Number of Devices                  | CDEV |           |             |           |                      | 6,064        | 610      | 196                         |                         |
| Number of Connections (Unmetered)  | CCON | 4,442     |             |           |                      | 3,972        | 274      | 196                         |                         |
| Total Number of Customers          | CCA  | 30,027    | 27,227      | 2,515     | 187                  | 14           | 35       | 48                          | 1                       |
| Bulk Customer Base                 | CCB  | 30,027    | 27,227      | 2,515     | 187                  | 14           | 35       | 48                          | 1                       |
| Primary Customer Base              | CCP  | 30,246    | 27,227      | 2,515     | 187                  | 233          | 35       | 48                          | 1                       |
| Line Transformer Customer Base     | CCLT | 30,200    | 27,227      | 2,515     | 142                  | 233          | 35       | 48                          | -                       |
| Secondary Customer Base            | CCS  | 29,512    | 26,778      | 2,515     | 122                  | 14           | 35       | 48                          | -                       |
| Weighted - Services                | CWCS | 32,792    | 26,778      | 3,521     | 536                  | 1,589        | 192      | 176                         | -                       |
| Weighted Meter -Capital            | CWMC | 7,881,216 | 5,230,791   | 1,548,182 | 1,080,128            | -            | -        | -                           | 22,116                  |
| Weighted Meter Reading             | CWMR | 29,930    | 27,227      | 2,515     | 187                  | -            | -        | -                           | 1                       |
| Weighted Bills                     | CWNB | 361,251   | 326,720     | 27,163    | 6,390                | 178          | 290      | 481                         | 29                      |

#### Bad Debt Data

| Historic Year:     | 2017 | 304,034 | 290,345 | 11,469 | 2,219 |   |   |   |   |
|--------------------|------|---------|---------|--------|-------|---|---|---|---|
| Historic Year:     | 2018 | 110,739 | 101,760 | 8,979  | -     |   |   |   |   |
| Historic Year:     | 2019 | 72,179  | 67,448  | 4,730  | -     |   |   |   |   |
| Three-year average |      | 162,317 | 153,185 | 8,393  | 740   | - | - | - | - |

#### EB-2021-0011 Sheet IS Demand Data Worksheet -

| This is ar | n input sheet for dema | nd allocators. |
|------------|------------------------|----------------|
| С          | P TEST RESULTS         | 12 CP          |
| N          | CP TEST RESULTS        | 4 NCP          |
|            | Co-incident Peak       | Indicator      |
|            | 1 CP                   | CP 1           |
|            | 4 CP                   | CP 4           |
|            | 12 CP                  | CP 12          |
| No         | on-co-incident Peak    | Indicator      |
|            | 1 NCP                  | NCP 1          |
|            | 4 NCP                  | NCP 4          |
|            | 12 NCP                 | NCP 12         |

|  |                 |                               | 1                  | 2                 | 3                    | 7                     | 8          | 9                           | 10                      |  |
|--|-----------------|-------------------------------|--------------------|-------------------|----------------------|-----------------------|------------|-----------------------------|-------------------------|--|
| Customer Classes   |                 | Total                         | Residential        | GS <50            | GS 50 to 4,999<br>kW | Street Light          | Sentinel   | Unmetered<br>Scattered Load | Embedded<br>Distributor |  |
|  |                 | CP<br>Sanity Check            | Check 4 CP         | Pass              | Pass                 | Check 4CP and<br>12CP | Check 12CP | Check 4CP and<br>12CP       | Pass                    |  |
| CO-INCIDENT  | PEAK            |                               |                    |                   |                      |                       |            |                             |                         |  |
| 1 CP   |                 |                               |                    |                   |                      |                       |            |                             |                         |  |
| Transformation CP  | TCP1            | 78,072                        | 36.857             | 9,931             | 30.048               | -                     | 57         | 56                          | 1,123                   |  |
| Bulk Delivery CP   | BCP1            | 78,072                        | 36,857             | 9,931             | 30,048               |                       | 57         | 56                          | 1,123                   |  |
| Total Sytem CP   | DCP1            | 78,072                        | 36,857             | 9,931             | 30,048               | -                     | 57         | 56                          | 1,123                   |  |
|  |                 |                               |                    | .,                |                      |                       |            |                             |                         |  |
| 4 CP   |                 |                               |                    |                   |                      |                       |            |                             |                         |  |
| Transformation CP  | TCP4            | 308,928                       | 159,462            | 36,761            | 108,197              | 277                   | 224        | 368                         | 3,639                   |  |
| Bulk Delivery CP   | BCP4            | 308,928                       | 159,462            | 36,761            | 108,197              | 277                   | 224        | 368                         | 3,639                   |  |
| Total Sytem CP   | DCP4            | 308,928                       | 159,462            | 36,761            | 108,197              | 277                   | 224        | 368                         | 3,639                   |  |
|  |                 |                               |                    |                   |                      |                       |            |                             |                         |  |
| 12 CP  | 700/0           | 050 707                       | 100 107            | 107.117           | 0.40 500             | 4 470                 | 700        | 1 5 1 0                     | 0.044                   |  |
| Transformation CP  | TCP12           | 850,767                       | 420,487            | 107,117           | 310,528              | 1,476                 | 702        | 1,546                       | 8,912                   |  |
| Bulk Delivery CP   | BCP12           | 850,767                       | 420,487            | 107,117           | 310,528              | 1,476                 | 702        | 1,546                       | 8,912                   |  |
| Total Sytem CP   | DCP12           | 850,767                       | 420,487            | 107,117           | 310,528              | 1,476                 | 702        | 1,546                       | 8,912                   |  |
| NON CO INCIDE  | ΝΤ ΡΕΔΚ         |                               |                    |                   |                      |                       |            |                             |                         |  |
|  |                 | NCP                           |                    |                   |                      |                       |            |                             |                         |  |
|  |                 | Sanity Check                  | Pass               | Pass              | Pass                 | Pass                  | Pass       | Pass                        | Pass                    |  |
| 1 NCP  |                 |                               |                    |                   |                      |                       |            |                             |                         |  |
| Classification NCP from  |                 |                               |                    |                   |                      |                       |            |                             |                         |  |
| Load Data Provider   | DNCP1           | 90,254                        | 44,876             | 12,125            | 31,015               | 370                   | 66         | 284                         | 1,518                   |  |
| Primary NCP  | PNCP1           | 90,109                        | 44,876             | 12,125            | 30,870               | 370                   | 66         | 284                         | 1,518                   |  |
| Line Transformer NCP   | LTNCP1          | 83,992                        | 44,876             | 12,125            | 26,271               | 370                   | 66         | 284                         |                         |  |
| Secondary NCP  | SNCP1           | 83,992                        | 44,876             | 12,125            | 26,271               | 370                   | 66         | 284                         | -                       |  |
|  |                 |                               |                    |                   |                      |                       |            |                             |                         |  |
| 4 NCP  |                 | -                             |                    |                   |                      |                       |            |                             |                         |  |
| Classification NCP from  | DNODA           | 0.40,000                      | 470 570            | 44,951            | 400.004              | 4 477                 | 262        | 4 404                       | 5 500                   |  |
| Load Data Provider   | DNCP4<br>PNCP4  | 346,866<br>346,305            | 172,576<br>172,576 | 44,951            | 120,901<br>120,340   | 1,477<br>1,477        | 262        | 1,131<br>1.131              | 5,569                   |  |
| Drime and NCD  | PINCP4          | 340,303                       | 1/2,5/0            | 44,951            | 102,453              | 1,477                 | 262        | 1,131                       | 5,508                   |  |
| Primary NCP  | I TNCDA         |                               | 172 576            | 44.051            |                      |                       |            |                             |                         |  |
| Line Transformer NCP   | LTNCP4          | 322,849                       | 172,576            | 44,951            |                      |                       |            |                             |                         |  |
|  | LTNCP4<br>SNCP4 |                               | 172,576<br>172,576 | 44,951<br>44,951  | 102,453              | 1,477                 | 262        | 1,131                       |                         |  |
| Line Transformer NCP<br>Secondary NCP  |                 | 322,849                       |                    |                   |                      |                       |            |                             |                         |  |
| Line Transformer NCP<br>Secondary NCP<br>12 NCP  |                 | 322,849                       |                    |                   |                      |                       |            |                             |                         |  |
| Line Transformer NCP<br>Secondary NCP<br>12 NCP<br>Classification NCP from                       | SNCP4           | 322,849<br>322,849            | 172,576            | 44,951            | 102,453              | 1,477                 | 262        | 1,131                       | 13 386                  |  |
| Line Transformer NCP<br>Secondary NCP<br>12 NCP<br>Classification NCP from<br>Load Data Provider | SNCP4<br>DNCP12 | 322,849<br>322,849<br>954,975 | 458,437            | 44,951<br>124,916 | 102,453<br>349,757   | 1,477                 | 262        | 1,131<br>3,306              |                         |  |
| Line Transformer NCP<br>Secondary NCP<br>12 NCP<br>Classification NCP from                       | SNCP4           | 322,849<br>322,849            | 172,576            | 44,951            | 102,453              | 1,477                 | 262        | 1,131                       | 13,385<br>13,385        |  |

EB-2021-0011

#### Sheet O1 Revenue to Cost Summary Worksheet -

Instructions: Please see the first tab in this workbook for detailed instructions

#### Class Revenue, Cost Analysis, and Return on Rate Base

|                    |   |                                 | 1                              | 2                             | 3                             | 7                          | 8                       | 9                           | 10                         |
|--------------------|---|---------------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------|-------------------------|-----------------------------|----------------------------|
| ite Base<br>Assets |   | Total                           | Residential                    | GS <50                        | GS 50 to 4,999<br>kW          | Street Light               | Sentinel                | Unmetered<br>Scattered Load | Embedded<br>Distributor    |
| crev               | Distribution Revenue at Existing Rates        | \$19,559,110                    | \$12,219,333                   | \$2,664,429                   | \$4,094,805                   | \$336,789                  | \$52,357                | \$65,202                    | \$126,194                  |
| mi                 | Miscellaneous Revenue (mi)                    | \$1,341,251                     | \$928,059                      | \$142,905                     | \$235,421                     | \$17,960                   | \$3,841                 | \$4,375                     | \$8,690                    |
|                    |   |                                 | cellaneous Revenu              |                               |                               | AAE / 350                  |                         | 400 577                     | <u> </u>                   |
|                    | Total Revenue at Existing Rates               | \$20,900,361                    | \$13,147,392                   | \$2,807,334                   | \$4,330,226                   | \$354,750                  | \$56,198                | \$69,577                    | \$134,884                  |
|                    | Factor required to recover deficiency (1 + D) | 1.1308                          | A10 017 700                    | <b>A</b> O 010 070            | <b>*</b> 4 000 400            | <b>*</b> ****              | <b>*</b> 50.000         | A70 700                     | <b>A</b> 110 <b>7</b> 00   |
|                    | Distribution Revenue at Status Quo Rates      | \$22,117,708                    | \$13,817,788                   | \$3,012,973                   | \$4,630,462                   | \$380,846                  | \$59,206                | \$73,732                    | \$142,702                  |
|                    | Miscellaneous Revenue (mi)                    | \$1,341,251                     | \$928,059                      | \$142,905                     | \$235,421                     | \$17,960                   | \$3,841                 | \$4,375                     | \$8,690                    |
|                    | Total Revenue at Status Quo Rates             | \$23,458,959                    | \$14,745,847                   | \$3,155,878                   | \$4,865,883                   | \$398,806                  | \$63,047                | \$78,106                    | \$151,392                  |
|                    | Expenses                                      |                                 |                                |                               |                               |                            |                         |                             |                            |
| di                 | Distribution Costs (di)                       | \$3,296,015                     | \$2.032.735                    | \$389.506                     | \$766.273                     | \$58,602                   | \$10.949                | \$13.362                    | \$24,586                   |
| cu                 | Customer Related Costs (cu)                   | \$2,604,973                     | \$2,162,781                    | \$293,996                     | \$141,770                     | \$746                      | \$1,213                 | \$2,016                     | \$2,451                    |
| ad                 | General and Administration (ad)               | \$4,162,141                     | \$2,934,673                    | \$483,436                     | \$661,257                     | \$42,988                   | \$8,778                 | \$11,133                    | \$19,877                   |
| dep                | Depreciation and Amortization (dep)           | \$5,625,717                     | \$3,425,326                    | \$715,714                     | \$1,325,793                   | \$80,394                   | \$15,806                | \$20,492                    | \$42,192                   |
| INPUT              | PILs (INPUT)                                  | \$430,483                       | \$257,069                      | \$52,612                      | \$107,898                     | \$6,385                    | \$1,256                 | \$1,670                     | \$3,592                    |
| INT                | Interest                                      | \$2,951,625                     | \$1,762,607                    | \$360,739                     | \$739,810                     | \$43,780                   | \$8,610                 | \$11,454                    | \$24,625                   |
|                    | Total Expenses                                | \$19,070,954                    | \$12,575,191                   | \$2,296,004                   | \$3,742,800                   | \$232,895                  | \$46,612                | \$60,128                    | \$117,324                  |
|                    | Direct Allocation                             | \$0                             | \$0                            | \$0                           | \$0                           | \$0                        | \$0                     | \$0                         | \$0                        |
| NI                 | Allocated Net Income (NI)                     | \$4,388,005                     | \$2,620,363                    | \$536,289                     | \$1,099,831                   | \$65,085                   | \$12,800                | \$17,027                    | \$36,609                   |
|                    | Revenue Requirement (includes NI)             | \$23,458,959                    | \$15,195,555                   | \$2,832,293                   | \$4,842,632                   | \$297,981                  | \$59,412                | \$77,155                    | \$153,933                  |
|                    | Revenue Requirement (includes Ni)             |                                 | quirement Input ed             |                               | ψ4,042,032                    | φ2 <i>31</i> ,301          | φ <b>3</b> 5,412        | <i>\$11</i> ,155            | φ100,800                   |
|                    |   | Revenue Re                      | quirement input et             | Juais Output                  |                               |                            |                         |                             |                            |
|                    | Rate Base Calculation                         |                                 |                                |                               |                               |                            |                         |                             |                            |
|                    | Not Accord                                    |                                 |                                |                               |                               |                            |                         |                             |                            |
|                    | Net Assets                                    | 6400 450 007                    | 6447 000 400                   | CO0 774 040                   | ¢40 500 400                   | ¢0.004.070                 | 6504 400                | 6740.040                    | ¢4 505 400                 |
| dp                 | Distribution Plant - Gross                    | \$193,458,897                   | \$117,363,139                  | \$23,774,013                  | \$46,522,429                  | \$2,964,372                | \$581,106               | \$748,348                   | \$1,505,489                |
| gp .               | General Plant - Gross                         | \$35,798,037                    | \$21,547,528                   | \$4,354,287                   | \$8,802,166                   | \$554,393                  | \$107,643               | \$140,501                   | \$291,518                  |
|                    | Accumulated Depreciation                      | (\$80,406,898)                  | (\$49,170,451)                 | (\$10,044,667)                | (\$18,868,279)                | (\$1,191,744)              | (\$238,233)             | (\$303,070)<br>(\$92,905)   | (\$590,453                 |
| со                 | Capital Contribution Total Net Plant          | (\$21,950,842)<br>\$126,899,193 | (\$13,912,182)<br>\$75,828,033 | (\$2,580,302)<br>\$15,503,330 | (\$4,698,023)<br>\$31,758,293 | (\$438,138)<br>\$1,888,884 | (\$79,428)<br>\$371,087 | \$492,805)                  | (\$149,863)<br>\$1,056,691 |
|                    | i oldi Net Flaitt                             | \$120,033,133                   | \$75,020,033                   | \$15,503,330                  | \$31,750,293                  | \$1,000,004                | \$371,007               | \$452,075                   | \$1,050,091                |
|                    | Directly Allocated Net Fixed Assets           | \$0                             | \$0                            | \$0                           | \$0                           | \$0                        | \$0                     | \$0                         | \$0                        |
| СОР                | Cost of Power (COP)                           | \$0                             | \$0                            | \$0                           | \$0                           | \$0                        | \$0                     | \$0                         | \$0                        |
| COF                | OM&A Expenses                                 | \$10,063,129                    | \$7,130,189                    | \$1,166,939                   | \$1,569,299                   | \$102,336                  | \$20,940                | \$26,511                    | \$46,915                   |
|                    | Directly Allocated Expenses                   | \$10,003,125                    | \$7,130,189                    | \$1,100,333                   | \$1,505,255                   | \$102,330                  | \$20,540<br>\$0         | \$20,311                    | \$40,913<br>\$0            |
|                    | Subtotal                                      | \$10,063,129                    | \$7,130,189                    | \$1,166,939                   | \$1,569,299                   | \$102,336                  | \$20,940                | \$26,511                    | \$46,915                   |
|                    |   |                                 |                                |                               |                               |                            |                         |                             |                            |
|                    | Working Capital                               | \$754,735                       | \$534,764                      | \$87,520                      | \$117,697                     | \$7,675                    | \$1,570                 | \$1,988                     | \$3,519                    |
|                    | Total Rate Base                               | \$127,653,928                   | \$76,362,797                   | \$15,590,851                  | \$31,875,990                  | \$1,896,559                | \$372,658               | \$494,863                   | \$1,060,210                |
|                    |   | Rate B                          | Base Input equals (            | Dutput                        |                               |                            |                         |                             |                            |
|                    | Equity Component of Rate Base                 | \$51,061,571                    | \$30,545,119                   | \$6,236,340                   | \$12,750,396                  | \$758,624                  | \$149,063               | \$197,945                   | \$424,084                  |
|                    | Net Income on Allocated Assets                | \$4,388,005                     | \$2,170,656                    | \$859,874                     | \$1,123,082                   | \$165,911                  | \$16,436                | \$17,979                    | \$34,068                   |
|                    | Net Income on Direct Allocation Assets        | \$0                             | \$0                            | \$0                           | \$0                           | \$0                        | \$0                     | \$0                         | \$0                        |
|                    | Net Income                                    | \$4,388,005                     | \$2,170,656                    | \$859,874                     | \$1,123,082                   | \$165,911                  | \$16,436                | \$17,979                    | \$34,068                   |
|                    | RATIOS ANALYSIS                               |                                 |                                |                               |                               |                            |                         |                             |                            |
|                    |   |                                 |                                |                               |                               |                            |                         |                             |                            |
|                    | REVENUE TO EXPENSES STATUS QUO%               | 100.00%                         | 97.04%                         | 111.42%                       | 100.48%                       | 133.84%                    | 106.12%                 | 101.23%                     | 98.35%                     |

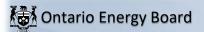
EB-2021-0011 Sheet O1 Bevenue to Cost St

Sheet 01 Revenue to Cost Summary Worksheet -

Instructions: Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

|                     |  |                                | 1             | 2          | 3                    | 7            | 8         | 9                           | 10                      |
|---------------------|--|--------------------------------|---------------|------------|----------------------|--------------|-----------|-----------------------------|-------------------------|
| Rate Base<br>Assets |  | Total                          | Residential   | GS <50     | GS 50 to 4,999<br>kW | Street Light | Sentinel  | Unmetered<br>Scattered Load | Embedded<br>Distributor |
|                     | EXISTING REVENUE MINUS ALLOCATED COSTS   | (\$2,558,598)                  | (\$2,048,162) | (\$24,959) | (\$512,405)          | \$56,769     | (\$3,214) | (\$7,578)                   | (\$19,049)              |
|                     |  | Deficiency Input equals Output |               |            |                      |              |           |                             |                         |
|                     | STATUS QUO REVENUE MINUS ALLOCATED COSTS | (\$0)                          | (\$449,707)   | \$323,585  | \$23,251             | \$100,825    | \$3,635   | \$951                       | (\$2,541)               |
|                     | RETURN ON EQUITY COMPONENT OF RATE BASE  | 8.59%                          | 7.11%         | 13.79%     | 8.81%                | 21.87%       | 11.03%    | 9.08%                       | 8.03%                   |



#### EB-2021-0011

#### Sheet O2 Monthly Fixed Charge Min. & Max. Worksheet -

Output sheet showing minimum and maximum level for Monthly Fixed Charge

|   | 1           | 2       | 3                    | 7            | 8        | 9                           | 10                      |
|---|-------------|---------|----------------------|--------------|----------|-----------------------------|-------------------------|
| <u>Summary</u>  | Residential | GS <50  | GS 50 to 4,999<br>kW | Street Light | Sentinel | Unmetered<br>Scattered Load | Embedded<br>Distributor |
| Customer Unit Cost per month - Avoided Cost                           | \$5.07      | \$11.38 | \$85.63              | \$0.00       | \$0.16   | \$0.36                      | \$338.38                |
| Customer Unit Cost per month - Directly Related                       | \$8.07      | \$17.10 | \$130.19             | \$0.01       | \$0.29   | \$0.67                      | \$496.37                |
| Customer Unit Cost per month - Minimum System<br>with PLCC Adjustment | \$27.01     | \$37.44 | \$162.89             | \$5.37       | \$17.81  | \$15.84                     | \$361.84                |
| Existing Approved Fixed Charge  | \$37.40     | \$31.58 | \$169.70             | \$4.09       | \$5.70   | \$49.79                     | \$610.63                |