EXHIBIT 7 – COST ALLOCATION

2019 Cost of Service

Lakeland Power Distribution Ltd. EB-2018-0050

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7.1 COST ALLOCATION STUDY REQUIREMENTS

1 7.1.1 OVERVIEW OF COST ALLOCATION

2 LPDL has prepared and is filing a Cost Allocation informational filing consistent with its

3 understanding of the Directions and Policies in the Board's reports of November 28, 2007

4 "Application of Cost Allocation for Electricity Distributors", and March 31, 2011 "Review of

5 Electricity Distribution Cost Allocation Policy" (EB-2010-0219) (the "Cost Allocation Reports") and

6 all subsequent updates.

7 In this application, LPDL has used the most up to date 2019 OEB-approved Cost Allocation

8 Model^{1 2} Version 3.6 released by the OEB on July 12, 2018, and followed the instructions and

9 guidelines issued by the OEB to enter the 2019 data into this model. The 2019 demand values

10 were determined based on the Load Profiles section of this Exhibit. The various weighting

11 factors used are also explained.

12 The main objectives of the original informational filing in 2006 were to provide information on

13 any apparent cross-subsidization among a distributor's rate classifications and to support future

14 rate applications. This information is updated to reflect new parameters and inputs and then

15 used to adjust any cross-subsidization in the proposed rates.

16 The previously Board Approved ratios are presented as a point of reference to the proposed

17 2019 ratios. As part of its last Cost of Service Rate Application ("CoS"), LPDL updated the cost

18 allocation revenue to cost ratios with 2013 base revenue requirement information. The revenue

19 to cost ratios from the 2013 application are presented below, utilizing both LPDL and PSP

20 approved values. The values for LPDL are the ratios approved in its 2013 CoS EB-2012-0145 and

¹ MFR - Completed cost allocation study using the OEB-approved methodology or a comparable model must be filed reflecting future loads and costs and be supported by appropriate explanations and live Excel spreadsheets. Sheets 11 and 12 of the RRWF must also be completed. Live Excel version of 2017 cost allocation model will be filed (updated load profiles or scaled version of HONI CAIF). Model must be consistent with test year load forecast, changes to customer classes and load profiles.

² MFR - Explanation provided if a distributor is unable to update its load profiles and confirm that it intends to put plans in place to update its load profiles the next time a cost allocation model is filed.

- 1 for former PSP, they are the ratios approved in IRM EB-2012-0159, reflecting the movement as
- 2 per CoS EB-2010-0140.
- 3

4

Table 1: Previously Approved Ratios (2013 COS)

| Class | LPDL | LPDL | LPDL | PSP | PSP | PSP | Blended | Blended | Ble |
|-------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|-----------------------|
| | Most Recent Year: 2013 | Most Recent Year: 2013 | Me Rec Ye 20 |
| | % | Row 25 | Row 40 | % | Row 25 | Row 40 | % | Row 25 | Row |
| Residential | 96.15% | 3,200,858 | 3,329,186 | 101.90% | 1,509,224 | 1,481,083 | 97.92% | 4,710,082 | 4,810 |
| General Service < 50 kW | 100.52% | 1,241,657 | 1,235,264 | 85.19% | 481,295 | 564,967 | 95.71% | 1,722,952 | 1,800 |
| General Service 50 to 4999 kW | 110.44% | 912,573 | 826,341 | 124.40% | 581,835 | 467,713 | 115.48% | 1,494,408 | 1,294 |
| Unmetered Scattered Load | 181.31% | 9,266 | 5,111 | 80.00% | 14,004 | 17,505 | 102.89% | 23,270 | 22 |
| Sentinel Lighting | 81.52% | 5,062 | 6,210 | 70.00% | 1,437 | 2,053 | 78.65% | 6,499 | 8 |
| Street Lighting | 117.25% | 222,214 | 189,520 | 70.00% | 127,135 | 181,621 | 94.13% | 349,349 | 371 |
| | | 5,591,630 | 5,591,632 | | 2,714,930 | 2,714,942 | | 8,306,560 | 8,306 |

5

6 The Cost Allocation Study for 2019 allocates the 2019 test year costs (i.e., the 2019 forecast

7 revenue requirement) to the various customer classes using allocators that are based on the

8 forecast class loads (kW and kWh) by class, customer counts, etc.

9 7.1.2 LOAD PROFILE (DEMAND DATA SHEET I8)

On June 12, 2015, the OEB asked distributors to be mindful of material changes to load profiles and propose updates, as appropriate, in CoS rate applications. LPDL is not aware of any reason for the load profiles to have materially changed between the classes. As a result, LPDL has not updated its load profile at this time. LPDL intends to put plans in place to update its load profile prior to its next cost of service application.

- 15 LPDL proposes to use the same method as was used in its 2013 CoS application for LPDL to
- 16 determine the demand data for the 2019 Cost Allocation Model. The method involves applying
- a scaling factor to the 2004 demand data to determine the 2019 demand data for cost
- 18 allocation. The scaling factor represents by class, the percentage of 2019 weather normalized
- 19 volumes compared to the 2004 weather normalized volumes. The scaling factors used to

- 1 estimate the 2019 demand data for the Cost Allocation Model are shown in Tables 2 through 4
- 2 below.
- 3

4

Table 2: Load Profile Scaling Factors

| Classes | 2004 Weather Normal Values - | 2004 Weather Normal Values - | 2004 Weather Normal Values - | 2019 Weather Normal Values - | % |
|-------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------|
| | LPDL (kWh) | PSP (kWh) | Blended (kWh) | Blended (kWh) | |
| Residential | 88,474,021 | 38,698,151 | 127,172,172 | 103,566,100 | 81.44% |
| General Service < 50 kW | 50,572,035 | 17,831,120 | 68,403,155 | 58,157,023 | 85.02% |
| General Service 50 to 4999 kW | 94,771,207 | 33,907,164 | 128,678,371 | 113,634,985 | 88.31% |
| Unmetered Scattered Load | 313,209 | 140,517 | 453,726 | 166,068 | 36.60% |
| Sentinel Lighting | 44,756 | 16,530 | 61,286 | 42,775 | 69.80% |
| Street Lighting | 1,972,318 | 921,749 | 2,894,067 | 1,154,724 | 39.90% |
| Total | 236, 147, 546 | 91,515,231 | 327,662,777 | 276,721,675 | 84.45% |

5

| Classes | 2004 Weather Normal Values - LPDL (kWh) | 2004 Weather Normal Values - PSP (kWh) | 2004 Weather Normal Values - Blended (kWh) | % | 2019 Weather Normal Values - Blended (kWh) | % |
|-------------------------------|---|--|--|---------|--|---------|
| Residential | 88,474,021 | 38,698,151 | 127, 172, 172 | 38.81% | 103,566,100 | 37.43% |
| General Service < 50 kW | 50,572,035 | 17,831,120 | 68,403,155 | 20.88% | 58,157,023 | 21.02% |
| General Service 50 to 4999 kW | 94,771,207 | 33,907,164 | 128,678,371 | 39.27% | 113,634,985 | 41.06% |
| Unmetered Scattered Load | 313,209 | 140,517 | 453,726 | 0.14% | 166,068 | 0.06% |
| Sentinel Lighting | 44,756 | 16,530 | 61,286 | 0.02% | 42,775 | 0.02% |
| Street Lighting | 1,972,318 | 921,749 | 2,894,067 | 0.88% | 1,154,724 | 0.42% |
| Total | 236,147,546 | 91,515,231 | 327,662,777 | 100.00% | 276,721,675 | 100.00% |

6

| Classes | 4NCP - LPDL EB- 2012-0145 | 4NCP - PSP EB- 2010-0140 | Blended | % | 2019 4NCP | % |
|-------------------------------|------------------------------|-----------------------------|---------|---------|-----------|---------|
| Residential | 76,780 | 37,227 | 114,007 | 45.10% | 102,982 | 44.27% |
| General Service < 50 kW | 42,520 | 18,492 | 61,012 | 24.14% | 59,323 | 25.50% |
| General Service 50 to 4999 kW | 50,004 | 25,119 | 75,123 | 29.72% | 69,150 | 29.72% |
| Unmetered Scattered Load | 59 | 31 | 90 | 0.04% | 92 | 0.04% |
| Sentinel Lighting | 36 | 15 | 51 | 0.02% | 39 | 0.02% |
| Street Lighting | 1,671 | 808 | 2,479 | 0.98% | 1,048 | 0.45% |
| Total | 171,070 | 81,692 | 252,762 | 100.00% | 232,634 | 100.00% |

Table 3: 4NCP Load Profiles from Last CoS versus 2019

1

Table 4: I8 Demand Data for 2019 Test Year (adjusted for 2019 Load Forecast)³

| | | | 1 | 2 | 3 | 7 | 8 | 9 |
|--|------------------------|-----------------------|-----------------|-------------|-------------------|--------------------|----------|------------------------------------|
| Customer Clas | Customer Classes Total | | Residenti al | _ GS <50 | GS>50- Regular | Street Lighting | Sentinel | Unmetere d Scattered Load |
| | | CP Sanity Check | Pass | Pass | Pass | Pass | Pass | Pass |
| CO-INCIDENT P | EAK | | | | | | | |
| 1 CP | | | | | | | | |
| Transformation CP | TCP1 | 52,768 | 23,385 | 13,026 | 16,127 | 197 | 7 | 26 |
| Bulk Delivery CP | BCP1 | 52,768 | 23,385 | 13,026 | 16,127 | 197 | 7 | 26 |
| Total Sytem CP | DCP1 | 52,768 | 23,385 | 13,026 | 16,127 | 197 | 7 | 26 |
| 4 CP | | | | | | - | - | |
| Transformation CP | TCP4 | 198,455 | 90,366 | 48,747 | 58,775 | 459 | 17 | 91 |
| Bulk Delivery CP | BCP4 | 198,455 | 90,366 | 48,747 | 58,775 | 459 | 17 | 91 |
| Total Sytem CP | DCP4 | 198,455 | 90,366 | 48,747 | 58,775 | 459 | 17 | 91 |
| 12 CP | | | | | | | | |
| Transformation CP | TCP12 | 509,118 | 194,991 | 135,147 | 178,278 | 459 | 17 | 227 |
| Bulk Delivery CP | BCP12 | 509,118 | 194,991 | 135,147 | 178,278 | 459 | 17 | 227 |
| Total Sytem CP | DCP12 | 509,118 | 194,991 | 135,147 | 178,278 | 459 | 17 | 227 |
| NON CO INCIDEN | | | | | | | | |
| | | NCP | | | | | | |
| | | Sanity Check | Pass | Pass | Pass | Pass | Pass | Pass |
| 1 NCP | | | | | | | | |
| Classification NCP from Load Data Provider | DNCP1 | 61,902 | 28,221 | 15,858 | 17,526 | 262 | 10 | 26 |
| Primary NCP | PNCP1 | 61,902 | 28,221 | 15,858 | 17,526 | 262 | 10 | 26 |
| Line Transformer NCP | LTNCP1 | 52,578 | 28,221 | 15,858 | 8,202 | 262 | 10 | 26 |
| Secondary NCP | SNCP1 | 59,454 | 28,221 | 15,858 | 15,077 | 262 | 10 | 26 |
| 4 NCP Classification NCP from Load Data Provider | DNCP4 | 232,634 | 102,982 | 59,323 | 69,150 | 1,048 | 39 | 92 |
| Primary NCP | PNCP4 | 232,634 | 102,982 | 59,323 | 69,150 | 1,048 | 39 | 92 |
| Line Transformer NCP | LTNCP4 | 195,844 | 102,982 | 59,323 | 32,360 | 1,048 | 39 | 92 |
| Secondary NCP | SNCP4 | 222,973 | 102,982 | 59,323 | 59,489 | 1,048 | 39 | 92 |
| 12 NCP | | , | , | , | | .,,,,,, | | |
| Classification NCP from Load Data Provider | DNCP12 | 596,971 | 234,711 | 158,611 | 200,160 | 3,145 | 117 | 227 |
| Primary NCP | PNCP12 | 596,971 | 234,711 | 158,611 | 200,160 | 3,145 | 117 | 227 |
| Line Transformer NCP | LTNCP12 | 490,481 | 234,711 | 158,611 | 93,671 | 3,145 | 117 | 227 |
| Secondary NCP | SNCP12 | 569,007 | 234,711 | 158,611 | 172,197 | 3.145 | 117 | 227 |

2

3

³ MFR - Hard copy of sheets I-6, I-8, O-1 and O-2 (first page).

1 7.1.3 WEIGHTING FACTORS (SHEET I5.2)

- 2 LPDL populated the information on Sheet I3, Trial Balance Data with the 2019 forecasted data,
- 3 Target Net Income, PILs, Deemed interest on long term debt, and the targeted Revenue
- 4 Requirement and Rate Base.

On Sheet I4, Break-out of Assets, LPDL updated the allocation of the accounts based on 2019
values.

7 On Sheet I5.1, Miscellaneous data, LPDL updated the deemed equity component of rate base,

8 kilometer of roads in the service area, working capital allowance and the proportion of pole

- 9 rental revenue from secondary poles.
- 10 As instructed by the Board, in Sheet I5.2, Weighting Factors, LPDL has used LDC specific factors
- 11 rather than continue to use OEB approved default factors. The utility has applied service and
- 12 billing & collecting weightings for each customer classification.
- 13 These weightings are based on a review of time and costs incurred in servicing its customer
- 14 classes; they are discussed further below:⁴
- 15

Table 5: Weighting Factors

| | 1 | 2 | 3 | 7 | 8 | 9 |
|---|-------------|--------|-----------------------|-----------------|----------|--------------------------------|
| | Residential | GS <50 | GS > 50 to 2999 kW | Street Light | Sentinel | Unmetered Scattered Load |
| Insert Weighting Factor for Services Account 1855 | 1.0 | 2.6 | 6.1 | 0.0 | 0.0 | 0.0 |
| Insert Weighting Factor for Billing and Collecting | 1.0 | 1.0 | 1.2 | 1.2 | 0.6 | 0.6 |

16

⁴ MFR - Description of weighting factors, and rationale for use of default values (if applicable).

1 **Proposed Services Weighting Factors**

Residential: the Services weighting factor was set to "1", per the Cost Allocation instruction
sheet.

General Service less than 50 kW: The proposed Services weighting factor of 2.6 reflects
that these customers require greater capacity than residential customers as well increased
levels of planning and engineering and larger size of conductor, which are more costly and
require more material.

8 General Service greater than 50 kW (GS 50-2,999 kW and GS 3,000-4,999 kW): The

9 proposed Services weighting factor of 6.1 reflects that these customers require greater

10 capacity than residential customers as well increased levels of planning, engineering as well

as larger size of conductor, which is more costly and requires more material.

Street Lighting, Sentinel and USL: A Services weighting factor of 0.0 is proposed for all
 three customer classes as the utility does not service these classes.

14 **Proposed Billing and Collecting Weighting Factors**

Residential: The Billing and Collecting weighting factor is set at 1, per the Cost Allocation
 instruction sheet.

General Service less than 50 kW: The proposed Billing and Collecting weighting factor is
 also 1. LPDL doesn't experience a significant difference between time required to bill this
 class when compared to the residential class.

- 20 General Service greater than 50 kW and Street Lighting: The proposed Billing and
- 21 Collecting weighting factor for both classes is 1.2. All customers within this classification are
- 22 mandated to be moved to MIST meters no later than 2020. LPDL has done this, with the
- result being meters settled through a 3rd Party vendor with a retail meter account. This
- allows the customer access to their daily data so they can track their consumption.

- 1 **Sentinel Lights and USL:** The proposed Billing and Collecting weighting factor for both
- 2 classes, is 0.6. These classes do not give rise to Collecting costs. The customers in these
- 3 classes require manual intervention if connections are added or removed and thus have a
- 4 higher allocation when compared to the residential class.

5 7.1.4 REVENUE, CUSTOMER DATA, METER CAPITAL & READING, DIRECT

- 6 ALLOCATION (SHEETS I6.1, I6.2 I7.1, I7.2, I9)
- 7 In Sheet I6.1 Revenue has been populated with the 2019 Test Year forecast data as well as
- 8 existing rates.
- 9 Sheet I6.2 has been updated with the required Bad Debt and Late Payment revenue data as well
- 10 as number of customer/connections.
- 11 LPDL updated the capital cost meter information on Sheet I7.1 and the meter reading
- 12 information on I7.2 to reflect its completed deployment of smart meters.
- 13 No Direct Allocations were entered on Sheet I9.

14 7.1.5 CUSTOMER CLASSES

- 15 **Embedded Distributor Class**⁵
- 16 LPDL is not a host to any distributor.

17 Unmetered Scattered Loads (including Street Lights)⁶

- 18 LPDL communicates with USL customers to assist them in understanding the regulatory
- 19 requirements in which LPDL operates. Since LPDL's largest customers in this category are the
- 20 municipal shareholders, LPDL communicates with them frequently about load and potential rate

⁵ MFR - Host Distributor - evidence of consultation with embedded Dx.

⁶ MFR - Unmetered Loads (including Street Lighting) - Confirmation of communication with unmetered load customers when proposing changes to the level of the rates and charges or the introduction of new rates and charges.

- 1 impacts . LPDL will also communicate the rate increase forecasted for this rate application and
- 2 the impacts to its customers.

3 MicroFIT⁷

- 4 LPDL has requested an increase in the MircoFIT rate from the current \$5.40 per month to \$10.00
- 5 per month to cover the cost of the settlement process.

6 Standby Rates⁸

7 LPDL is not seeking approval on a final basis, or changes to standby charges.

8 New or Eliminated Customer Classes⁹

9 LPDL is not proposing to include any new or eliminate any existing customer classes.

10 7.1.6 SUMMARY OF DATA AND OUTPUTS

- 11 The Customer Data tab of the Cost Allocation model updated for the 2019 Test Year are
- 12 provided in Tables 6 and 7, at the next page.

⁷ MFR - microFIT - if the applicant believes that it has unique circumstances which would justify a certain rate, appropriate documentation must be provided.

⁸ MFR - Standby Rates - if seeking approval on final basis, provide evidence that affected customers have been advised. If seeking changes to standby charges, provide rationale and evidence that affected customer have been advised.

⁹ MFR - New customer class or eliminated customer class - rationale and restatement of revenue requirement from previous CoS.

| | | | 1 | 2 | 3 | 7 | 8 | 9 |
|---|------|-----------|-------------|----------|-------------------|--------------------|----------|-----------------------------|
| | ID | Total | Residential | GS <50 | GS>50- Regular | Street Lighting | Sentinel | Unmetered Scattered Load |
| Billing Data | | · | | · | | | | |
| Bad Debt 3 Year Historical Average | BDHA | \$57,369 | \$53,478 | \$3,891 | \$0 | \$0 | \$0 | \$0 |
| Late Payment 3 Year Historical Average | LPHA | \$101,502 | \$55,887 | \$23,560 | \$21,564 | \$456 | \$3 | \$32 |
| Number of Bills | CNB | 197,232 | 134,496 | 25,776 | 1,632 | 34,188 | 528 | 612 |
| Number of Devices | CDEV | | | | | 2,849 | | 51 |
| Number of Connections (Unmetered) | CCON | 2,944 | | | | 2,849 | 44 | 51 |
| Total Number of Customers | CCA | 16,436 | 11,208 | 2,148 | 136 | 2,849 | 44 | 51 |
| Bulk Customer Base | ССВ | - | | | | | | |
| Primary Customer Base | ССР | 13,606 | 11,208 | 2,148 | 136 | 114 | | |
| Line Transformer Customer Base | CCLT | 13,682 | 11,208 | 2,148 | 117 | 114 | 44 | 51 |
| Secondary Customer Base | CCS | 16,417 | 11,208 | 2,148 | 117 | 2,849 | 44 | 51 |
| Weighted - Services | CWCS | 17,464 | 11,208 | 5,542 | 714 | - | - | - |
| Weighted Meter -Capital | СММС | 4,041,679 | 2,868,791 | 903,788 | 269,100 | - | - | - |
| Weighted Meter Reading | CWMR | 13,343 | 11,169 | 2,144 | 30 | - | - | - |
| Weighted Bills | CWNB | 203,940 | 134,496 | 25,776 | 1,958 | 41,026 | 317 | 367 |

Table 6: Sheet I6-2 of the Cost Allocation Model

| Bad Debt Data | | Total | Residential | GS<50 | | | | |
|--------------------|------|--------|-------------|-------|---|---|---|---|
| Historic Year: | 2015 | 64,860 | 61,224 | 3,636 | | | | |
| Historic Year: | 2016 | 63,012 | 60,456 | 2,556 | | | | |
| Historic Year: | 2017 | 44,236 | 38,754 | 5,482 | | | | |
| Three-year average | | 57,369 | 53,478 | 3,891 | - | - | - | - |

Street Lighting Adjustment Factors

| NCP Test Results | 4 NCP |
|------------------|-------|
|------------------|-------|

| | Primary Asset I | Line Transformer Asset Data | | | |
|--------------|-----------------------|-----------------------------|-----------------------|---------|--|
| Class | Customers/ Devices | 4 NCP | Customers/ Devices | 4 NCP | |
| Residential | 11,208 | 102,982 | 11,208 | 102,982 | |
| Street Light | 2,849 | 1,048 | 2,849 | 1,048 | |

| Street Lighting Adjustment Factors | | | | | | |
|------------------------------------|---------|--|--|--|--|--|
| Primary | 24.9664 | | | | | |
| Line Transformer | 24.9664 | | | | | |

Table 7: Sheet I6-1 of the Cost Allocation Model

| Total kWhs from Load Forecast | 276,721,676 |
|--|-------------|
| | |
| Total kWs from Load Forecast | 279,523 |
| | |
| Deficiency/sufficiency (RRWF 8. cell F51) | 344,498 |

| cell F48) 682,214 |
|-------------------|
|-------------------|

| | | | 1 | 2 | 3 | 7 | 8 | 9 |
|--|----------|-------------------------|---------------------|---------------------|-------------------------|------------------|----------------|-----------------------------|
| | ID | Total | Residential | GS <50 | GS>50-Regular | Street Light | Sentinel | Unmetered Scattered Load |
| Billing Data | | • | • • • | | | • | | |
| Forecast kWh | CEN | 276,721,676 | 103,566,100 | 58,157,023 | 113,634,985 | 1,154,724 | 42,775 | 166,068 |
| Forecast kW | CDEM | 279,523 | | | 276,220 | 3,183 | 119 | |
| Forecast kW, included in CDEM, of customers receiving line transformer allowance | | 129,265 | | | 129,265 | | | |
| Optional - Forecast kWh, included in CEN, from customers that receive a line transformation allowance on a kWh basis. In most cases this will not be applicable and will be left blank. | | _ | | | | | | |
| KWh excluding KWh from Wholesale Market Participants | CEN EWMP | 276,721,676 | 103,566,100 | 58,157,023 | 113,634,985 | 1,154,724 | 42,775 | 166,068 |
| | | | | | | | | |
| Existing Monthly Charge Existing Distribution kWh Rate | | | \$31.61 \$0.0048 | \$43.03 \$0.0108 | \$284.85 | \$4.46 | \$6.28 | \$16.83 \$0.0520 |
| Existing Distribution kW Rate Existing TOA Rate | | | | | \$3.1967 \$0.60 | \$20.4675 | \$21.9542 | |
| Additional Charges | | | | | | | AT 0000 | 1 10.005 |
| Distribution Revenue from Rates Transformer Ownership Allowance | | \$8,080,834 \$77,559 | \$4,752,554 \$0 | \$1,737,887 \$0 | \$1,347,877 \$77,559 | \$217,642 \$0 | \$5,939 \$0 | \$18,935 \$0 |
| Net Class Revenue | CREV | \$8,003,275 | \$0 \$4,752,554 | \$0 \$1,737,887 | \$1,270,318 | \$0 \$217,642 | \$5,939 | \$0 \$18,935 |

- 1 The revenue to cost ratios calculated on Sheet O1 and O2 of the Cost Allocation Model, updated
- 2 for the 2019 Test Year, are provided in Tables 8 and 9.
- 3

Table 8: Sheet O-1 of the Cost Allocation Model

| | Total | Residential | GS <50 | GS>50-Regular | Street Light | Sentinel | Unmetered Scattered Load |
|--|-------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------------|-----------------------|-----------------------------|
| Distribution Revenue at Existing Rates | \$8,003,275 | \$4,752,554 | \$1,737,887 | \$1,270,318 | \$217,642 | \$5,939 | \$18,935 |
| Miscellaneous Revenue (mi) | \$682,214 | \$397,962 | \$147,192 | \$110,326 | \$25,058 | \$759 | \$917 |
| | | ellaneous Reven | | | | | |
| Total Revenue at Existing Rates | \$8,685,489 | \$5,150,516 | \$1,885,078 | \$1,380,643 | \$242,700 | \$6,698 | \$19,853 |
| Factor required to recover deficiency (1 + D) | 0.9570 | | | | A | | A |
| Distribution Revenue at Status Quo Rates | \$7,658,777 | \$4,547,982 | \$1,663,080 | \$1,215,637 | \$208,274 | \$5,683 | \$18,120 |
| Miscellaneous Revenue (mi) Total Revenue at Status Quo Rates | \$682,214 \$8,340,991 | \$397,962 \$4,945,944 | \$147,192 \$1,810,272 | \$110,326 \$1,325,963 | \$25,058 \$233,332 | \$759 \$6,442 | \$917 \$19.038 |
| | | | | . ,, | | | |
| Expenses | | | | | | | |
| Distribution Costs (di) | \$1,729,194 | \$1,014,871 | \$463,873 | \$225,015 | \$23,064 | \$1,082 | \$1,289 |
| Customer Related Costs (cu) | \$1,085,774 | \$746,160 | \$147,632 | \$15,732 | \$173,360 | \$1,339 | \$1,552 |
| General and Administration (ad) | \$2,313,578 | \$1,436,492 | \$505,995 | \$213,484 | \$153,274 | \$1,991 | \$2,343 |
| Depreciation and Amortization (dep) | \$1,337,806 | \$772,107 | \$315,760 | \$225,977 | \$21,721 | \$1,008 | \$1,233 |
| PILs (INPUT) | \$241,379 | \$134,315 | \$57,666 | \$44,577 | \$4,369 | \$204 | \$248 |
| Interest Total Expenses | \$551,073 \$7,258,805 | \$306,645 \$4,410,589 | \$131,653 \$1,622,578 | \$101,770 \$826,555 | \$9,974 \$385,762 | \$465 \$6,088 | \$567 \$7,232 |
| Total Expenses | \$1,230,003 | \$4,410,505 | \$1,022,570 | \$020,333 | \$305,702 | \$0,000 | φ1,232 |
| Direct Allocation | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Allocated Net Income (NI) | \$1,082,187 | \$602,183 | \$258,537 | \$199,854 | \$19,587 | \$913 | \$1,113 |
| Revenue Requirement (includes NI) | \$8,340,991 | \$5,012,772 | | \$1,026,409 | \$405,349 | \$7,001 | \$8,345 |
| | Revenue Reo | quirement Input e | quals Output | | | | |
| Rate Base Calculation | | | | | | | |
| Net Assets | | | | | | | |
| Distribution Plant - Gross | \$53,848,380 | \$30,201,361 | \$12,889,476 | \$9,648,176 | \$1,005,484 | \$46,994 | \$56,889 |
| General Plant - Gross | \$6,592,167 | \$3,681,926 | \$1,570,650 | \$1,199,515 | \$127,113 | \$5,860 | \$7,104 |
| Accumulated Depreciation | (\$24,212,645) | (\$13,637,902) | (\$5,823,610) | (\$4,275,391) | (\$430,750) | (\$20,351) | (\$24,641 |
| Capital Contribution Total Net Plant | (\$9,036,436) \$27,191,466 | (\$5,109,754) \$15,135,631 | (\$2,141,936) \$6,494,580 | (\$1,557,127) \$5,015,173 | (\$206,886) \$494,962 | (\$9,464) \$23,038 | (\$11,269 \$28,082 |
| | \$0 | | | | | • | \$20,002 |
| Directly Allocated Net Fixed Assets | 20 | \$0 | \$0 | \$0 | \$0 | \$0 | φU |
| Cost of Power (COP) | \$33,128,401 | \$12,441,569 | \$6,957,855 | \$13,566,189 | \$137,855 | \$5,107 | \$19,826 |
| OM&A Expenses | \$5,128,546 | \$3,197,522 | \$1,117,500 | \$454,230 | \$349,698 | \$4,412 | \$5,184 |
| Directly Allocated Expenses | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal | \$38,256,947 | \$15,639,092 | \$8,075,354 | \$14,020,419 | \$487,554 | \$9,518 | \$25,010 |
| Working Capital | \$2,869,271 | \$1,172,932 | \$605,652 | \$1,051,531 | \$36,567 | \$714 | \$1,876 |
| Total Rate Base | \$30,060,737 | \$16,308,563 | \$7,100,231 | \$6,066,704 | \$531,528 | \$23,752 | \$29,958 |
| | Rate B | ase Input equals | Output | | | | |
| Equity Component of Rate Base | \$12,024,295 | \$6,523,425 | \$2,840,092 | \$2,426,682 | \$212,611 | \$9,501 | \$11,983 |
| Net Income on Allocated Assets | \$1,082,187 | \$535,355 | \$187,693 | \$499,408 | (\$152,430) | \$354 | \$11,806 |
| Net Income on Direct Allocation Assets | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Net Income | \$1,082,187 | \$535,355 | \$187,693 | \$499,408 | (\$152,430) | \$354 | \$11,806 |
| RATIOS ANALYSIS | | | | | | | |
| REVENUE TO EXPENSES STATUS QUO% | 100.00% | 98.67% | 96.23% | 129.18% | 57.56% | 92.02% | 228.139 |
| EXISTING REVENUE MINUS ALLOCATED COSTS | \$344,498 | \$137,744 | \$3,963 | \$354,234 | (\$162,649) | (\$303) | \$11,508 |
| | Deficie | ncy Input equals | Output | | | | |
| STATUS QUO REVENUE MINUS ALLOCATED COSTS | (\$0) | (\$66,827) | (\$70,844) | \$299,554 | (\$172,017) | (\$559) | \$10,693 |
| RETURN ON EQUITY COMPONENT OF RATE BASE | 9.00% | 8.21% | 6.61% | 20.58% | -71.69% | 3.73% | 98.52% |

| <u>Summary</u> | Residential | GS <50 | GS>50-Regular | Street Light | Sentinel | Unmetered Scattered Load |
|---|-------------|---------|---------------|--------------|----------|-----------------------------|
| Customer Unit Cost per month - Avoided Cost | \$5.52 | \$6.79 | \$12.69 | \$3.34 | \$1.67 | \$1.63 |
| Customer Unit Cost per month - Directly Related | \$8.77 | \$10.49 | \$20.83 | \$5.97 | \$3.06 | \$3.02 |
| Customer Unit Cost per month - Minimum System with PLCC Adjustment | \$25.85 | \$38.08 | \$67.54 | \$11.51 | \$13.21 | \$9.49 |
| Existing Approved Fixed Charge | \$31.61 | \$43.03 | \$284.85 | \$4.46 | \$6.28 | \$16.83 |

Table 9: Sheet O-2 of the Cost Allocation Model

1 7.2 CLASS REVENUE REQUIREMENTS

2 7.2.1 CLASS REVENUE ANALYSIS¹⁰

- 3 Table 10 below shows the results of the Cost Allocation updated 2019 study. These results are
- 4 used to compare, analyze the allocation under each option and help the utility determine its
- 5 2019 proposed ratios.

¹⁰ MFR - To support a proposal to rebalance rates, the distributor must provide information on the revenue by class that would apply if all rates were changed by a uniform percentage. Ratios must be compared with the ratios that will result from the rates being proposed by the distributor.

Table 10: Results of the Cost Allocation Study

| Cost Allocation Results | | REVENUE ALLOCATION (sheet O1) | | | | | | | MER UNIT C NTH (sheet | | | |
|-------------------------------|-----------------|-------------------------------|---------|--------------------|-----------|---------|------------------------|---|--------------------------|--|-------------------|--|
| Customer Class Name | Service (rov | Rev Req v40) | | venue (mi) v19) | Base R | ev Req | Rev2Cost Expenses % | Avoided Costs (Minimum Charge) | Directly Related | Minimum System with PLCC * adjustment | Maximum Charge | Maximum Charge or Existing Rate |
| Residential | 5,012,772 | 60.10% | 397,962 | 58.33% | 4,614,810 | 60.26% | 98.67% | \$5.52 | \$8.77 | \$25.85 | \$25.85 | \$31.61 |
| General Service < 50 kW | 1,881,115 | 22.55% | 147,192 | 21.58% | 1,733,924 | 22.64% | 96.23% | \$6.79 | \$10.49 | \$38.08 | \$38.08 | \$43.03 |
| General Service 50 to 4999 kW | 1,026,409 | 12.31% | 110,326 | 16.17% | 916,083 | 11.96% | 129.18% | \$12.69 | \$20.83 | \$67.54 | \$67.54 | \$284.85 |
| Unmetered Scattered Load | 8,345 | 0.10% | 917 | 0.13% | 7,428 | 0.10% | 228.13% | \$1.63 | \$3.02 | \$9.49 | \$9.49 | \$16.84 |
| Sentinel Lighting | 7,001 | 0.08% | 759 | 0.11% | 6,242 | 0.08% | 92.02% | \$1.67 | \$3.06 | \$13.21 | \$13.21 | \$13.21 |
| Street Lighting | 405,349 | 4.86% | 25,058 | 3.67% | 380,291 | 4.97% | 57.56% | \$3.34 | \$5.97 | \$11.51 | \$11.51 | \$11.51 |
| TOTAL | 8,340,991 | 100.00% | 682,214 | 100.00% | 7,658,777 | 100.00% | | | | | | |

2

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Table 11 below shows the allocation percentage and base revenue requirement allocation under existing rates, cost allocation results and
 proposed 2019 proposed allocation.

Table 11: Base Revenue Requirement Under 3 Scenarios

- 3
- 4

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| | Proposed Base Revenue Requirement % | | | | | | | | | |
|-------------------------------|-------------------------------------|-----------|---------|-----------|---------------------|-----------|--|--|--|--|
| Customer Class Name | Cost Allocation Results | | Existin | g Rates | Proposed Allocation | | | | | |
| Residential | 60.26% | 4,614,810 | 59.38% | 4,547,981 | 58.91% | 4,511,969 | | | | |
| General Service < 50 kW | 22.64% | 1,733,924 | 21.71% | 1,663,080 | 21.71% | 1,663,080 | | | | |
| General Service 50 to 4999 kW | 11.96% | 916,083 | 15.87% | 1,215,637 | 14.64% | 1,121,322 | | | | |
| Unmetered Scattered Load | 0.10% | 7,428 | 0.24% | 18,122 | 0.12% | 9,096 | | | | |
| Sentinel Lighting | 0.08% | 6,242 | 0.07% | 5,678 | 0.07% | 5,678 | | | | |
| Street Lighting | 4.97% | 380,291 | 2.72% | 208,279 | 4.54% | 347,632 | | | | |
| TOTAL | 100.00% | 7,658,777 | 100.00% | 7,658,777 | 100.00% | 7,658,777 | | | | |

- 1 Table 12 below shows the revenue offset allocation which resulted from the Cost Allocation
- 2 Study (Sheet O1).

Table 12: Revenue Offset Allocation as per Cost Allocation Study

| | Revenue | e Offsets |
|-------------------------------|---------|-----------|
| Customer Class Name | % | \$ |
| Residential | 58.33% | 397,962 |
| General Service < 50 kW | 21.58% | 147,192 |
| General Service 50 to 4999 kW | 16.17% | 110,326 |
| Unmetered Scattered Load | 0.13% | 917 |
| Sentinel Lighting | 0.11% | 759 |
| Street Lighting | 3.67% | 25,058 |
| TOTAL | 100.00% | 682,214 |

- 1 Table 13 shows the allocation of the service revenue requirement under the same 3 scenarios.
- 2

Table 13: Service Revenue Requirement Under 3 Scenarios

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| | | |) | |
|---|---|---|---|--|
| 2 | • | - | • | |
| | | | | |
| | | | | |
| | | | | |

| | Service Revenue Requirement | | | | | | |
|-------------------------------|-----------------------------|--------------------|---------------------|--|--|--|--|
| Customer Class Name | Existing Rates | Cost Allocation | Rate Application | | | | |
| Residential | 4,945,943 | 5,012,772 | 4,909,931 | | | | |
| General Service < 50 kW | 1,810,272 | 1,881,115 | 1,810,272 | | | | |
| General Service 50 to 4999 kW | 1,325,962 | 1,026,409 | 1,231,647 | | | | |
| Unmetered Scattered Load | 19,040 | 8,345 | 10,014 | | | | |
| Sentinel Lighting | 6,437 | 7,001 | 6,437 | | | | |
| Street Lighting | 233,337 | 405,349 | 372,690 | | | | |
| TOTAL | 8,340,991 | 8,340,991 | 8,340,991 | | | | |

1 7.3 REVENUE-TO-COST RATIOS

2 7.3.1 COST ALLOCATION RESULTS AND ANALYSIS¹¹

3 The following tables 15, 16 & 17, show the methodology followed to achieve the revenue to cost ratios.

4

Table 14: Allocated Costs

A) Allocated Costs

| Classes | Costs Allocated from Previous Study - LPDL | Costs Allocated from Previous Study - PSP | Costs Allocated from Previous Study | % | Costs Allocated in Test Year Study (Column 7A) | % |
|-------------------------------|--|---|---|---------|---|---------|
| Residential | \$3,329,186 | \$1,363,109 | \$4,692,295 | 58.46% | \$5,012,772 | 60.10% |
| General Service < 50 kW | \$1,235,264 | \$432,537 | \$1,667,801 | 20.78% | \$1,881,115 | 22.55% |
| General Service 50 to 4999 kW | \$826,341 | \$575,163 | \$1,401,504 | 17.46% | \$1,026,409 | 12.31% |
| Unmetered Scattered Load | \$5,111 | \$13,018 | \$18,129 | 0.23% | \$8,345 | 0.10% |
| Sentinel Lighting | \$6,210 | \$1,234 | \$7,444 | 0.09% | \$7,001 | 0.08% |
| Street Lighting | \$189,520 | \$49,724 | \$239,244 | 2.98% | \$405,349 | 4.86% |
| Total | \$5,591,631 | \$2,434,786 | \$8,026,417 | 100.00% | \$8,340,991 | 100.00% |

6

¹¹ MFR - If R:C ratios outside deadband based on model - distributors must include cost allocation proposal to bring them within the OEB-approved ranges. In making any such adjustments, distributors should address potential mitigation measures if the impact of the adjustments on the rates of any particular class or classes is significant.

Table 15: Calculated Class Revenues

B) Calculated Class Revenues

| (from CA - O1 row 18) | | | | | | | | | | |
|-------------------------------|---------------|----------------|---------------|---------------|--|--|--|--|--|--|
| | Column 7B | Column 7C | Column 7D | Column 7E | | | | | | |
| Classes (same as previous | Load Forecast | L.F. X current | LF X proposed | Miscellaneous | | | | | | |
| | | | | | | | | | | |
| Residential | \$4,752,554 | \$4,547,981 | \$4,511,969 | \$397,962 | | | | | | |
| General Service < 50 kW | \$1,737,887 | \$1,663,080 | \$1,663,080 | \$147,192 | | | | | | |
| General Service 50 to 4999 kW | \$1,270,318 | \$1,215,637 | \$1,121,322 | \$110,326 | | | | | | |
| Unmetered Scattered Load | \$18,935 | \$18,122 | \$9,096 | \$917 | | | | | | |
| Sentinel Lighting | \$5,939 | \$5,678 | \$5,678 | \$759 | | | | | | |
| Street Lighting | \$217,642 | \$208,279 | \$347,632 | \$25,058 | | | | | | |
| Total | \$8,003,275 | \$7,658,777 | \$7,658,777 | \$682,214 | | | | | | |

2

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| Class | LPDL | LPDL | LPDL | PSP | PSP | PSP | Blended | Blended | Blended |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------------------|
| | Most Recent Year: | Most Recent Year: | Most Recent Year: |
| | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 |
| | % | Row 25 | Row 40 | % | Row 25 | Row 40 | % | Row 25 | Row 40 |
| Residential | 96.15% | 3,200,858 | 3,329,186 | 101.90% | 1,509,224 | 1,481,083 | 97.92% | 4,710,082 | 4,810,269 |
| General Service < 50 kW | 100.52% | 1,241,657 | 1,235,264 | 85.19% | 481,295 | 564,967 | 95.71% | 1,722,952 | 1,800,231 |
| General Service 50 to 4999 kW | 110.44% | 912,573 | 826,341 | 124.40% | 581,835 | 467,713 | 115.48% | 1,494,408 | 1,294,054 |
| Unmetered Scattered Load | 181.31% | 9,266 | 5,111 | 80.00% | 14,004 | 17,505 | 102.89% | 23,270 | 22,616 |
| Sentinel Lighting | 81.52% | 5,062 | 6,210 | 70.00% | 1,437 | 2,053 | 78.65% | 6,499 | 8,263 |
| Street Lighting | 117.25% | 222,214 | 189,520 | 70.00% | 127,135 | 181,621 | 94.13% | 349,349 | 371,141 |

Table 16: Calculated Class Revenues – Determination of Blended Revenue/Cost Ratios

2 3

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PAGE 24 OF 27

2

Table 17: Calculated Class Revenues – Rebalancing and Proposed Ratios

C) Rebalancing Revenue-to-Cost (R/C) Ratios

| Class | Previously Approved Ratios | Status Quo Ratios/Current rates | Proposed Ratios | Policy Range | |
|-------------------------------|-------------------------------|---------------------------------------|------------------|--------------|--|
| | Most Recent Year: | (7C + 7E) / (7A) | (7D + 7E) / (7A) | | |
| | 2013 | | | | |
| | % | % | % | % | |
| Residential | 97.92% | 98.67 | 97.95 | 85 - 115 | |
| General Service < 50 kW | 95.71% | 96.23 | 96.23 | 80 - 120 | |
| General Service 50 to 4999 kW | 115.48% | 129.18 | 120.00 | 80 - 120 | |
| Unmetered Scattered Load | 102.89% | 228.15 | 120.00 | 80 - 120 | |
| Sentinel Lighting | 78.65% | 91.94 | 91.94 | 80 - 120 | |
| Street Lighting | 94.13% | 57.56 | 91.94 | 80 - 120 | |

- 1 Table 18 below shows the utility's proposed Revenue to Cost reallocation based on an analysis
- 2 of the proposed results from the Cost Allocation Study vs the Board imposed floor and ceiling
- 3 ranges.
- 4
- '
- 5

Table 18: Proposed Allocation

| Customer Class Name | Calculated R/C Ratio | Proposed R/C Ratio | Variance |
|-------------------------------|-------------------------|-----------------------|----------|
| Residential | 0.99 | 0.98 | 0.01 |
| General Service < 50 kW | 0.96 | 0.96 | -0.00 |
| General Service 50 to 4999 kW | 1.29 | 1.20 | 0.09 |
| Unmetered Scattered Load | 2.28 | 1.20 | 1.08 |
| Sentinel Lighting | 0.92 | 0.92 | 0.00 |
| Street Lighting | 0.58 | 0.92 | -0.34 |

6

7 The proposed Revenue to Cost ratio is adjusted by changing the allocation percentage for each

8 class. LPDL reviews and assesses the bill impacts for each class before adjusting the Revenue to

9 Cost ratios.

10 The three classes that fell outside of the board ranges are GS 50 to 4999kW (1.29), USL (2.28)

and Street Lighting (0.58). Consequently, the classes were readjusted to bring them back into

12 the range which adjusted Residential slightly downward to maintain revenue neutrality. Where

| | 13 | possible, all | classes wer | e adjusted | to move | towards | unity. |
|--|----|---------------|-------------|------------|---------|---------|--------|
|--|----|---------------|-------------|------------|---------|---------|--------|

- 14
- 15
- 16
- 17
- 1/
- 18

APPENDICES

1

| Appendix A | Cost Allocation Model – O1 Revenue to Cost |
|------------|---|
| Appendix B | Cost Allocation Model – O2 Fixed Charge Floor Ceiling |

2019 Cost Allocation Model

EB-2018-0050

Sheet O1 Revenue to Cost Summary Worksheet - MM Run 1

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 |
|---------------------|--|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---|-------------------------|-----------------------------|
| | | | 1 | 2 | 3 | / | 0 | - |
| Rate Base Assets | | Total | Residential | GS <50 | GS>50-Regular | Street Light | Sentinel | Unmetered Scattered Load |
| crev | Distribution Revenue at Existing Rates | \$8,003,275 | \$4,752,554 | \$1,737,887 | \$1,270,318 | \$217,642 | \$5,939 | \$18,935 |
| mi | Miscellaneous Revenue (mi) | \$682,214 | \$397,962 cellaneous Revenu | \$147,192 | \$110,326 | \$25,058 | \$759 | \$917 |
| | Total Revenue at Existing Rates | \$8.685.489 | \$5,150,516 | \$1,885,078 | \$1,380,643 | \$242,700 | \$6,698 | \$19,853 |
| | Factor required to recover deficiency (1 + D) | 0.9570 | <i>\\</i> 0,100,010 | ψ1,000,070 | ψ1,000,0 1 0 | <i>\</i> <u>4</u> <u>4</u> <u>4</u> <u>4</u> <u>7</u> | φ0,000 | φ13,000 |
| | Distribution Revenue at Status Quo Rates | \$7,658,777 | \$4,547,982 | \$1,663,080 | \$1,215,637 | \$208,274 | \$5,683 | \$18,120 |
| | Miscellaneous Revenue (mi) | \$682,214 | \$397,962 | \$147,192 | \$110,326 | \$25,058 | \$759 | \$917 |
| | Total Revenue at Status Quo Rates | \$8,340,991 | \$4,945,944 | \$1,810,272 | \$1,325,963 | \$233,332 | \$6,442 | \$19,038 |
| | | | | | | | | |
| | Expenses | | | 0 100 0 7 0 | 0005.015 | | . | A 4 and |
| di | Distribution Costs (di) | \$1,729,194 \$1,085,774 | \$1,014,871 \$746,160 | \$463,873 \$147,632 | \$225,015 | \$23,064 \$173,360 | \$1,082 \$1,339 | \$1,289 \$1,552 |
| cu ad | Customer Related Costs (cu) General and Administration (ad) | \$1,065,774 | \$1,436,492 | \$147,632 | \$15,732 \$213,484 | \$173,360 \$153,274 | \$1,339 | \$2,343 |
| dep | Depreciation and Amortization (dep) | \$1,337,806 | \$772,107 | \$315,760 | \$225,977 | \$21,721 | \$1,008 | \$1,233 |
| INPUT | PILs (INPUT) | \$241,379 | \$134,315 | \$57,666 | \$44,577 | \$4,369 | \$204 | \$248 |
| INT | Interest | \$551,073 | \$306,645 | \$131,653 | \$101,770 | \$9,974 | \$465 | \$567 |
| | Total Expenses | \$7,258,805 | \$4,410,589 | \$1,622,578 | \$826,555 | \$385,762 | \$6,088 | \$7,232 |
| | Direct Allocation | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| NI | Allocated Net Income (NI) | \$1,082,187 | \$602,183 | \$258,537 | \$199,854 | \$19,587 | \$913 | \$1,113 |
| | Revenue Requirement (includes NI) | \$8,340,991 | \$5,012,772 | \$1,881,115 | \$1,026,409 | \$405,349 | \$7,001 | \$8,345 |
| | | Revenue Re | quirement Input ec | uals Output | | | | |
| | | | | | | | | |
| | Rate Base Calculation | | | | | | | |
| | Net Assets | | | | | | | |
| dp | Distribution Plant - Gross | \$53,848,380 | \$30,201,361 | \$12,889,476 | \$9,648,176 | \$1,005,484 | \$46,994 | \$56,889 |
| gp . | General Plant - Gross | \$6,592,167 | \$3,681,926 | \$1,570,650 | \$1,199,515 | \$127,113 | \$5,860 | \$7,104 |
| ccum dep | Accumulated Depreciation Capital Contribution | (\$24,212,645) (\$9,036,436) | (\$13,637,902) (\$5,109,754) | (\$5,823,610) (\$2,141,936) | (\$4,275,391) (\$1,557,127) | (\$430,750) (\$206,886) | (\$20,351) (\$9,464) | (\$24,641) (\$11,269) |
| 60 | Total Net Plant | \$27,191,466 | \$15,135,631 | \$6,494,580 | \$5,015,173 | \$494,962 | \$9,464) | \$28,082 |
| | | \$21,101,400 | ¢10,100,001 | 40,434,000 | <i>40,010,110</i> | ¥+3+,302 | <i>\</i> | \$20,002 |
| | Directly Allocated Net Fixed Assets | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| COP | Cost of Power (COP) | \$33,128,401 | \$12,441,569 | \$6,957,855 | \$13,566,189 | \$137,855 | \$5,107 | \$19,826 |
| | OM&A Expenses | \$5,128,546 | \$3,197,522 | \$1,117,500 | \$454,230 | \$349,698 | \$4,412 | \$5,184 |
| | Directly Allocated Expenses | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | Subtotal | \$38,256,947 | \$15,639,092 | \$8,075,354 | \$14,020,419 | \$487,554 | \$9,518 | \$25,010 |
| | Working Capital | \$2,869,271 | \$1,172,932 | \$605,652 | \$1,051,531 | \$36,567 | \$714 | \$1,876 |
| | Total Rate Base | \$30,060,737 | \$16,308,563 | \$7,100,231 | \$6,066,704 | \$531,528 | \$23,752 | \$29,958 |
| | | Rate B | Base Input equals (| Dutput | | | | |
| | Equity Component of Rate Base | \$12,024,295 | \$6,523,425 | \$2,840,092 | \$2,426,682 | \$212,611 | \$9,501 | \$11,983 |
| | Net Income on Allocated Assets | \$1,082,187 | \$535,355 | \$187,693 | \$499,408 | (\$152,430) | \$354 | \$11,806 |
| | | | | | | | | |
| | Net Income on Direct Allocation Assets | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

2019 Cost Allocation Model

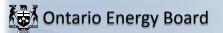
EB-2018-0050

Sheet O1 Revenue to Cost Summary Worksheet - MM Run 1

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 | |
|---------------------|--|-----------|-------------------|------------|---------------|--------------|----------|-----------------------------|
| Rate Base Assets | | Total | Residential | GS <50 | GS>50-Regular | Street Light | Sentinel | Unmetered Scattered Load |
| | RATIOS ANALYSIS | | | | | | | |
| | REVENUE TO EXPENSES STATUS QUO% | 100.00% | 98.67% | 96.23% | 129.18% | 57.56% | 92.02% | 228.13% |
| | EXISTING REVENUE MINUS ALLOCATED COSTS | \$344,498 | \$137,744 | \$3,963 | \$354,234 | (\$162,649) | (\$303) | \$11,508 |
| | | Defici | ency Input equals | Output | | | | |
| | STATUS QUO REVENUE MINUS ALLOCATED COSTS | (\$0) | (\$66,827) | (\$70,844) | \$299,554 | (\$172,017) | (\$559) | \$10,693 |
| | RETURN ON EQUITY COMPONENT OF RATE BASE | 9.00% | 8.21% | 6.61% | 20.58% | -71.69% | 3.73% | 98.52% |



2019 Cost Allocation Model

EB-2018-0050

Sheet O2 Monthly Fixed Charge Min. & Max. Worksheet - MM Run 1

Output sheet showing minimum and maximum level for Monthly Fixed Charge

| | 1 | 2 | 3 | 7 | 8 | 9 | |
|---|-------------|---------|---------------|--------------|----------|-----------------------------|--|
| <u>Summary</u> | Residential | GS <50 | GS>50-Regular | Street Light | Sentinel | Unmetered Scattered Load | |
| Customer Unit Cost per month - Avoided Cost | \$5.52 | \$6.79 | \$12.69 | \$3.34 | \$1.67 | \$1.63 | |
| Customer Unit Cost per month - Directly Related | \$8.77 | \$10.49 | \$20.83 | \$5.97 | \$3.06 | \$3.02 | |
| Customer Unit Cost per month - Minimum System with PLCC Adjustment | \$25.85 | \$38.08 | \$67.54 | \$11.51 | \$13.21 | \$9.49 | |
| Existing Approved Fixed Charge | \$31.61 | \$43.03 | \$284.85 | \$4.46 | \$6.28 | \$16.83 | |