



EXHIBIT 3 - REVENUES

2019 Cost of Service

Hydro 2000 Inc
EB-2019-0041

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3.1 LOAD AND REVENUE FORECAST

3.1.1 INTRODUCTION

The evidence presented in this exhibit provides information supporting the revenues derived from activities regulated by the Ontario Energy Board. Actual operating revenues from regulated operations are derived mainly from fixed and variable tariff charges as well as pass through charges and specific service charges. Revenues are collected from five (5) customer classes: Residential, General Service less than 50 kW, General Service greater than 50 kW, Unmetered Scattered Load (USL), and Street Lighting. Hydro 2000 does not anticipate any significant changes in its customer classes.

This exhibit also describes Hydro 2000's load and customer forecasts. The load forecast methodology and assumptions are described in detail at 3.1.4 Load Forecast Methodology.

The evidence herein is organized per the following topics:

- 1) Revenue and Load Forecast
- 2) Impact and Persistence from Historical CDM Programs
- 3) Accuracy of Load Forecast and Variance Analysis, and
- 4) Other Revenues

3.1.2 OVERVIEW OF CURRENT REVENUES

Table 1 - Revenues at Current Rates below shows revenues from current distribution charges for 2019. Distribution Revenues are derived from a combination of fixed monthly charges and volumetric charges applied to the utility's proposed Load Forecast. Fixed rate revenues are determined by applying the current fixed monthly charge to the number of customers or connections in each of the customer classes in each month. Variable rate revenue is based on a volumetric rate applied to meter readings for consumption or demand volume.

Hydro 2000's 2020 forecasted revenues recovered through its currently approved distribution rates are projected at \$538,444 (exclusive of all rate riders). The revenues at proposed distribution rates are presented in Exhibit 6 and Exhibit 8.

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Table 1 - Revenues at Current Rates

Projected Revenues at Current Rates

| 2019 Rates at 2020 Load | | | | | | | | |
|-----------------------------------------------|-----------------------------------|--------------------------------|-----------------------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|
| Revenue from Existing Variable Charges | | | | | | | | |
| Customer Class Name | Variable Distribution Rate | per | Test Year Volume | Gross Variable Revenue | Transform. Allowance Rate | Transform. Allowance kW's | Transform. Allowance \$'s | Net Variable Revenue |
| Residential | \$0.0062 | kWh | 12,367,886 | \$76,681 | | | \$0.00 | \$76,681 |
| General Service < 50 kW | \$0.0099 | kWh | 3,861,286 | \$38,227 | | | \$0.00 | \$38,227 |
| General Service > 50 to 4999 kW | \$1.4631 | kW | 10,671 | \$15,613 | | | \$0.00 | \$15,613 |
| Street Lighting | \$7.2916 | kW | 421 | \$3,066 | | | \$0.00 | \$3,066 |
| Unmetered Scattered Load | \$0.0443 | kWh | 17,280 | \$766 | | | \$0.00 | \$766 |
| 0 | | | 0 | \$0 | | | \$0.00 | \$0 |
| Total Variable Revenue | | | 16,257,544 | \$134,352 | 0 | 0 | 0 | \$134,352 |
| 2019 Rates at 2020 Load | | | | | | | | |
| Revenue from Existing Fixed Charges | | | | | | | | |
| Customer Class Name | Fixed Rate | Customers (Connections) | Fixed Charge Revenue | Variable Revenue | TOTAL | % Fixed Revenue | % Variable Revenue | % Total Revenue |
| Residential | \$25.92 | 1,113 | \$346,047.55 | 76,681 | \$422,728 | 81.86% | 18.14% | 78.51% |
| General Service < 50 kW | \$22.77 | 141 | \$38,526.84 | 38,227 | \$76,754 | 50.20% | 49.80% | 14.25% |
| General Service > 50 to 4999 kW | \$84.54 | 13 | \$13,208.53 | 15,613 | \$28,821 | 45.83% | 54.17% | 5.35% |
| Street Lighting | \$1.25 | 370 | \$5,556.75 | 3,066 | \$8,623 | 64.44% | 35.56% | 1.60% |
| Unmetered Scattered Load | \$15.68 | 4 | \$752.64 | 766 | \$1,518 | 49.58% | 50.42% | 0.28% |
| 0 | | | \$0.00 | - | \$0 | | | |
| Total Fixed Revenue | | 1,641 | \$404,092.31 | 134,352 | \$538,444 | | | |

2

| 2020 Rates at 2020 Load | | | | | | | | |
|-----------------------------------------------|-----------------------------------|--------------------------------|-----------------------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|
| Revenue from Proposed Variable Charges | | | | | | | | |
| Customer Class Name | Variable Distribution Rate | per | Test Year Volume | Gross Variable Revenue | Transform. Allowance Rate | Transform. Allowance kW's | Transform. Allowance \$'s | Net Variable Revenue |
| Residential | \$0.0034 | kWh | 12,367,886 | \$41,850 | | | \$0.00 | \$41,850 |
| General Service < 50 kW | \$0.0105 | kWh | 3,861,286 | \$40,520 | | | \$0.00 | \$40,520 |
| General Service > 50 to 4999 kW | \$1.4590 | kW | 10,671 | \$15,569 | 0.60 | | \$0.00 | \$15,569 |
| Street Lighting | \$7.4372 | kW | 421 | \$3,127 | | | \$0.00 | \$3,127 |
| Unmetered Scattered Load | \$0.0146 | kWh | 17,280 | \$252 | | | \$0.00 | \$252 |
| Total Variable Revenue | | | 16,257,544 | \$101,318 | 0.6 | 0 | \$0.00 | \$101,318 |
| 2020 Rates at 2020 Load | | | | | | | | |
| Revenue from Proposed Fixed Charges | | | | | | | | |
| Customer Class Name | Fixed Rate | Customers (Connections) | Fixed Charge Revenue | Variable Revenue | TOTAL | % Fixed Revenue | % Variable Revenue | % Total Revenue |
| Residential | \$31.45 | 1,113 | \$419,876.37 | \$41,850 | \$461,727 | 90.94% | 9.06% | 79.45% |
| General Service < 50 kW | \$24.14 | 141 | \$40,837.88 | \$40,520 | \$81,358 | 50.20% | 49.80% | 14.00% |
| General Service > 50 to 4999 kW | \$84.54 | 13 | \$13,208.53 | \$15,569 | \$28,777 | 45.90% | 54.10% | 4.95% |
| Street Lighting | \$1.27 | 370 | \$5,667.70 | \$3,127 | \$8,795 | 64.44% | 35.56% | 1.51% |
| Unmetered Scattered Load | \$5.65 | 4 | \$271.13 | \$252 | \$523 | 51.83% | 48.17% | 0.09% |
| Total Fixed Revenue | | 1,641 | \$479,861.62 | \$101,318 | \$581,180 | | | |

A completed Appendix 2-IB Load Forecast Analysis is presented at Appendix A of this Exhibit and in Tab 10 of the RRWF.¹

Hydro 2000 does not foresee or plan for any changes in the composition of its customer classes.

3.1.3 PROPOSED LOAD FORECAST

The following section of the application covers the approach taken to determine the Load Forecast. This section also covers economic assumptions and data sources for customer and load forecasts. It explains wholesale purchases and subsequent adjustments to the wholesale purchases. It also provides the rationale behind each variable used in the regression analysis. Lastly, it presents the regression results and explains how they were used to determine the forecast for the bridge and test year.

¹ MFR - Completed Appendix 2-IB; the customer and load forecast for the test year must be entered on RRWF, Tab 10

1 Table 2 - Customer and Volume Trend **Table** below presents the actual and forecast trends for
2 customer/connection counts, kWh consumption and billed kW demand. The forecast trend is
3 what Hydro 2000 has based its proposed rates on.

4

5

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Table 2 - Customer and Volume Trend Table

2

| | Year | 2012 BA | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2020 CDM Adjusted |
|-------------------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|
| Residential | Cust/Conn | 1061 | 1,064 | 1,069 | 1,072 | 1,075 | 1,068 | 1,083 | 1,085 | 1,087 | 1,113 | 1,113 |
| | kWh | 14578597 | 13,741,372 | 14,121,205 | 13,907,110 | 13,022,914 | 12,346,401 | 12,078,410 | 12,791,618 | 12,775,525 | 12,657,112 | 12,367,886 |
| | kW | | | | | | | | | | | |
| | | | | | | | | | | | | |
| General Service < 50 kW | Cust/Conn | 142 | 142 | 141 | 142 | 142 | 143 | 142 | 141 | 141 | 141 | 141 |
| | kWh | 4672050 | 4,027,546 | 4,342,696 | 4,287,878 | 4,333,237 | 4,261,434 | 3,971,545 | 4,062,996 | 3,995,372 | 4,049,207 | 3,861,286 |
| | kW | | | | | | | | | | | |
| | | | | | | | | | | | | |
| General Service > 50 to 4999 kW | Cust/Conn | 12 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 13 | 13 | 13 |
| | kWh | 4632461 | 4,474,560 | 4,601,708 | 4,359,419 | 4,194,222 | 3,976,846 | 4,195,330 | 4,274,766 | 4,084,117 | 4,111,838 | 3,984,230 |
| | kW | 11847 | 12,187 | 12,095 | 11,224 | 10,151 | 13,326 | 12,007 | 10,589 | 10,939 | 11,013 | 10,671 |
| | | | | | | | | | | | | |
| Unmetered Scattered Load | Cust/Conn | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | kWh | 18329 | 18,188 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 |
| | kW | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Street Lighting | Cust/Conn | 368 | 368 | 368 | 369 | 370 | 370 | 370 | 370 | 370 | 370 | 370 |
| | kWh | 343757 | 348,332 | 327,162 | 179,624 | 152,105 | 152,560 | 153,257 | 153,342 | 152,908 | 153,000 | 153,000 |
| | kW | 959 | 972 | 949 | 512 | 420 | 420 | 420 | 420 | 420 | 421 | 421 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Total | Cust/Conn | 1,589 | 1,591 | 1,593 | 1,597 | 1,602 | 1,596 | 1,611 | 1,612 | 1,615 | 1,641 | 1,641 |
| | kWh | 24,245,194 | 22,609,998 | 23,410,051 | 22,751,311 | 21,719,758 | 20,754,521 | 20,415,822 | 21,300,002 | 21,025,202 | 20,988,437 | 20,383,683 |
| | kW | 12,806 | 13,159 | 13,044 | 11,736 | 10,571 | 13,746 | 12,427 | 11,009 | 11,359 | 11,434 | 11,092 |

3

3.1.4 LOAD FORECAST METHODOLOGY AND DETAIL²

Hydro 2000's load forecast is prepared in two phases. The first phase, a billed energy forecast by customer class for 2020, is developed using a total purchase (**Wholesale**) basis regression analysis. Then, in the second phase, usage associated with the known change in customers for 2020 is determined and added (if applicable) (**Adjusted Wholesale**). The methodology proposed in this application predicts wholesale consumption (**Predicted**) using a multiple regression analysis that relates historical monthly wholesale kWh usage to carefully selected variables. The one-way analysis of variance (**ANOVA**) is used to determine whether there are any statistically significant differences between the means of three or more independent (unrelated) groups. The ANOVA compares the means between the groups you are interested in and determines whether any of those means are statistically significantly different from each other. The utility did not test the NAC method because NAC is generally seen as an alternative when sound historical data is not available.³

The most significant variables used in weather related regressions are monthly historical heating degree days and cooling degree days. Heating degree-days provide a measure of how much (in degrees), and for how long (in days), the outside temperature was below that base temperature. The most readily available heating degree days come with a base temperature of 18°C. Cooling degree-day figures also come with a base temperature, and provide a measure of how much, and for how long, the outside temperature was above that base temperature.

For degree days, daily observations as reported in Ottawa are used. The regression model also uses other variables which are tested to see their relationship and contribution to the fluctuating wholesale purchases. Each variable is discussed in detail later in this section.

² MFR - Explanation of weather normalization methodology

³ MFR - NAC Model - rationale for choice, data supporting NAC variables, description of accounting for CDM including license conditions, discussion of weather normalization considerations

Explanation of Multiple Regression Analysis

Multiple regression can be utilized for forecasting purposes by analyzing how several variables have affected a depended variable historically. From this, the relationship between these variables and the depended variable can be expressed as:

$$Y=A+B_1X_1+B_2X_2...+b_Nx_N + E$$

Where:

Y = Predicted depended variable value

A = the value of Y when all Xs are zero

X = the independent variable

B = the coefficients corresponding to the independent variables

n = the number of independent variables

E = an error term

By forecasting the independent variables, the dependent variable can be predicted. However, to ascertain that the relationship is not coincidental, the utility must first assess the correlation between the dependent and individual independent variables. This can be accomplished by the Person Correlation Coefficient (otherwise known as "R") to each independent variable. This depicts how much of the change in depended variable can be explained by the change in independent variables. Those variables with a high R-squared should then be used for multiple regression. The same correlation coefficient can be applied to multiple independent variables to ascertain how much of the change in a dependent variable can be explained by changes in all independent variables.

$$R \text{ Squared}=(B'X'Y - n\text{AVG}(Y)^2)/Y'Y-n\text{AVG}(Y)^2)$$

Where:

B',X',Y' = Matrixes of all combinations of B,X&Y respectively

^2 = Squared

The adjusted R-squared is calculated by “correcting” for the number of independent variables in a multiple regression analysis. The formula: $\text{Adj RSq} = (1 - (1 - \text{RSq}) * ((n - 1) / (n - k)))$. It is often used to compare models involving a different number of coefficients. The statistical significance of the multiple regression can be tested with the F-test which is derived from a normal probability distribution. A critical point along the distribution can be found given the degree of confidence required, the number of variables and the number of observations. If the F-statistic is at this point, then the analysis can be deemed statistically significant at the level of confidence.

$$\text{F-statistic} = (\text{R Squared} / (k - 1)) / (1 - \text{R Squared}) / (n - k)$$

Where:

K = number of independent variables

n = number of observations

Independent variables that are highly correlated themselves can lead to high variances in slope estimation (B). This is known as “Multicollinearity.” For this reason, independent variables with a high level of multicollinearity to the other independent variables should consider being omitted from the analysis.

The formula behind the monthly weather normalized values is as follows; (coefficient for the intercept) + (monthly HDD*coefficient for HDD) + (monthly CDD*coefficient for CDD) + (monthly Number of Days*coefficient for monthly Number of Days) + (monthly Employment Stats*coefficient for monthly Employment Stats) + (monthly Daylight Hours*coefficient for monthly Daylight Hours). When the regression line is linear ($y = ax + b$), the regression coefficient is the constant (a) that represents the rate of change of one variable (y) as a function of changes in the other (x); it is the slope of the regression line. The intercept is the predicted value of the dependent variable when all predictor variables are set to 0.

3.1.5 ECONOMIC OVERVIEW

Hydro 2000's economic overview is also presented in section 2.1 of the Business Plan and duplicated below for ease of reference.

Principal Demographic and Geographic Characteristics

Information based on the StatsCan 2016 census.

| | |
|-------------------------------|----------------------------------------------------------------------|
| Area | 391.7 km ² |
| Population | More than 9,680 |
| Towns and villages | Alfred, Plantagenet, Curran, Wendover, Treadwell, Lefaire, Pendleton |
| Predominant language | French |
| Bilingualism (English French) | 70% |
| Population density | 24.7 |
| Average age | 43.4 |

Made up of seven essentially Francophone villages including Alfred, Curran, Lefaire, Pendleton, Plantagenet, Treadwell and Wendover, our Municipality is strategically located between two major urban centres: Ottawa, 45 minutes to the west and Montreal 75 minutes to the east. The United States border crossing in Cornwall, Ontario is only 45 minutes to the south. A ferry at Lefaire provides direct access to the province of Quebec. On January 1, 1997, the villages of Alfred and Plantagenet, along with the Township of Alfred and the Township of Plantagenet, were merged to form the Township of Alfred and Plantagenet. Hydro 2000 serves two of the seven villages those of Alfred and Plantagenet. The other villages are served by Hydro One.

Strategic Choice Location

Part of the United Counties of Prescott and Russell, the Township is advantageously located for residents and businesses alike.

Principal Economic Characteristics

Agriculture

The primary economic engine is agriculture. As with the majority of the townships that make up the United Counties of Prescott and Russell, agriculture makes up a large part of the economic activity within the township of Alfred and Plantagenet. Based on 2001 census data, almost 10% of active residents in the Township are employed by agriculture or related industries. In fact, within the United Counties of Prescott-Russell and based on population percentage, Alfred and Plantagenet has the third highest number of residents employed in agriculture, behind East Hawkesbury and The Nation. Population densities of these three townships (20 residents per km², 14.5 residents and 16.1 residents respectively), illustrates the importance agriculture related industries play.

The agriculture industry in Eastern Ontario differs considerably from that of the southwest of the province. There is less commercial growing and more dairy farming. In general, the topography and soil are less suited to intensive farming as to dairy farming. This fact is particularly noticeable in the Township of Alfred and Plantagenet where dairy producers are reputed for having the highest daily output across Canada.

With almost 40% of all the farms specialized in dairy production, the dairy industry constitutes the principal activity of overall farming agriculture operations in the region. In 2003, dairy farms of the United Counties of Prescott and Russell delivered 178,095 kilolitres of milk to dairy producers, that being close to 27% of total deliveries in Eastern Ontario. This being said, the region also possesses a number of grain farms.

These farming operations are mostly "family corporations" and are subject to the same constraints' dairy farmers face in the rest of Canada (raised prices of milk quotas, the problem regarding succession, the tendency towards consolidation among farms, etc.). The increased price of milk quotas levied by the province has had a profound impact on the industry. Milk quotas represent additional costs that dairy producers must assume to do business and constitute a significant barrier to market. These raised prices for quotas have encouraged farmers to sell their operations and is the main contributor the

1 increasing consolidation of the agricultural industry. As elsewhere, the last several years
2 the region has seen a decrease in the number of operational farms. In May 2002 there
3 remained 1,048 in operation, a loss of 350 since 1986. Statistics show that from 1991 to
4 2001, the number of dairy producers decreased by 52% in Ontario.

5 The agricultural sector continues to be an important part of the active population total in
6 the region (5.9%) compared to Ontario (3.2%). With 21% of the farms occupying land
7 operating between 240-399 acres of land, the average size of the farms is superior to the
8 provincial average and the value of average sales per farm is also higher than the
9 provincial average. In effect, the average revenue of farms is estimated at 159,639 \$ in
10 2001, which places the region in the top position for Eastern Ontario.

11 **Manufacturing and Construction**

12 Composed primarily of small and medium sized enterprises, these sectors provided
13 employment for 20% of active residents in 2001.

14 In total, there are close to 600 companies that are made up of the following: over 350
15 commercial and industrial companies and approximately 200 agricultural-based
16 companies. The relatively high number of small and medium sized enterprises
17 constitutes one of Alfred and Plantagenet's greatest strengths. ⁴

⁴ MFR - Explanation of causes, assumptions and adjustments for volume forecast. Economic assumptions and data sources for customer and load forecasts

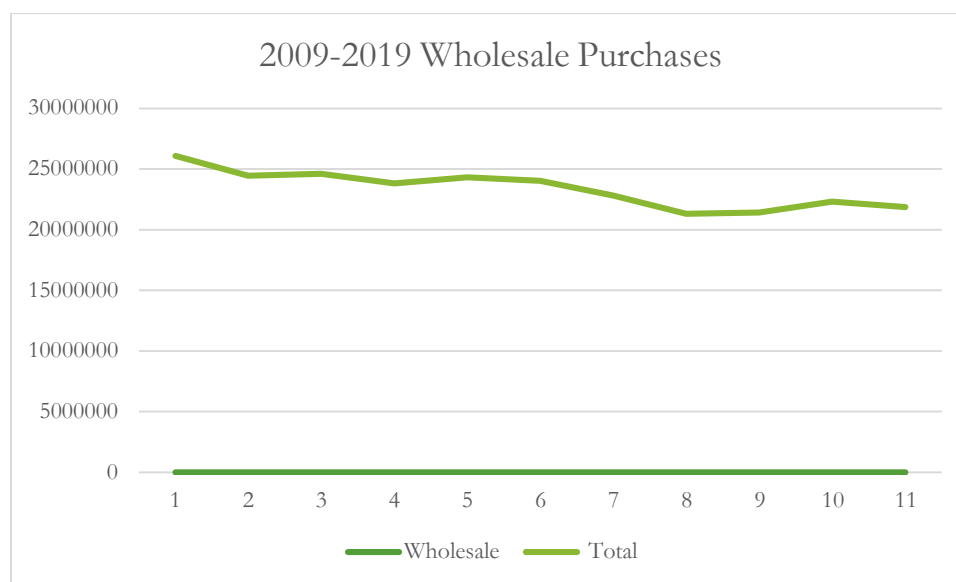
3.1.6 OVERVIEW OF WHOLESALE PURCHASES

Hydro 2000 is fully embedded into the Hydro One service territory and as such the utility purchases its electricity solely from Hydro One.

The following table outlines the unadjusted monthly wholesale purchases:

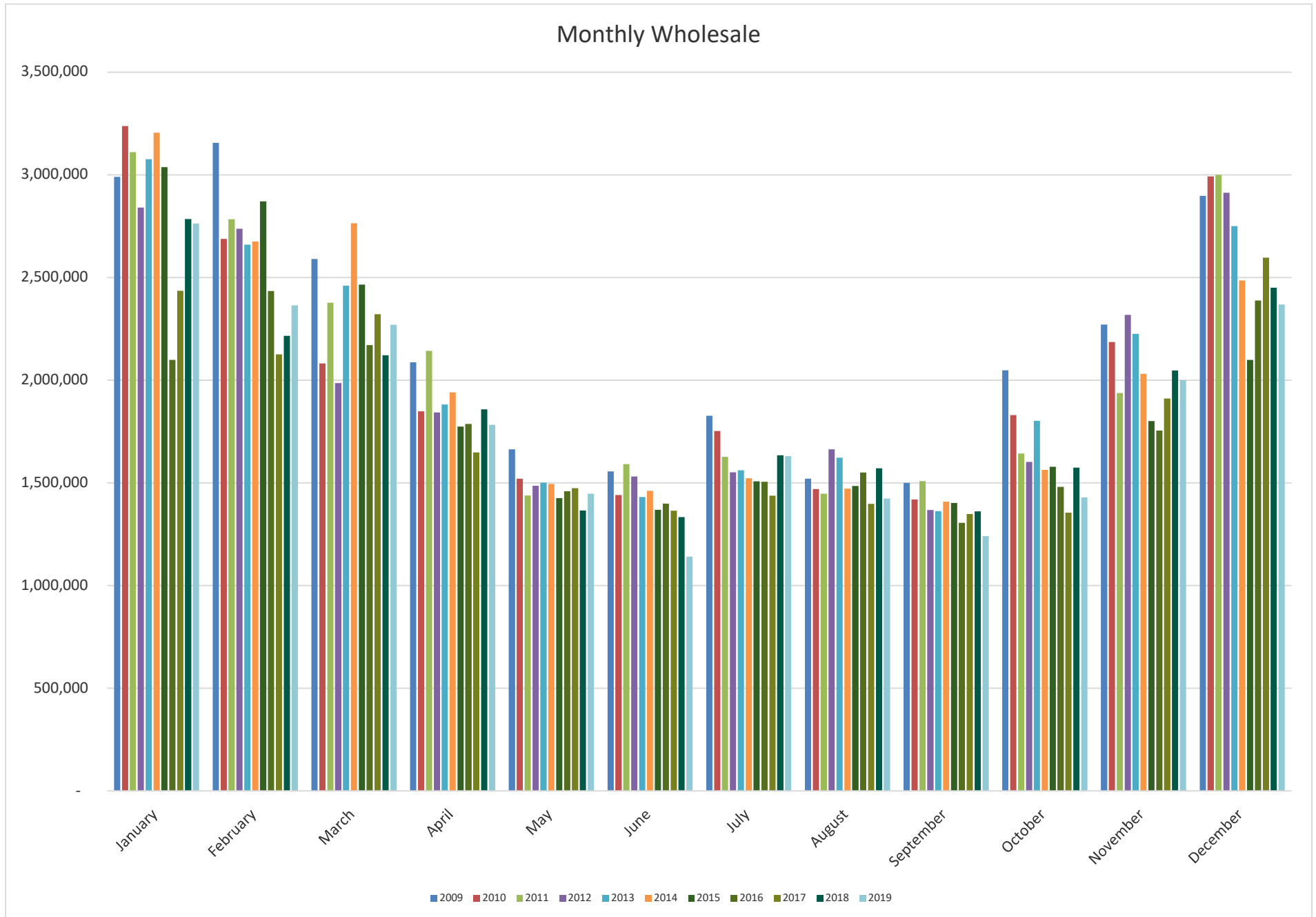
Table 3 - Wholesale Purchases 2009-2019

| Wholesale | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| January | 2,990,133 | 3,237,231 | 3,110,493 | 2,839,960 | 3,076,090 | 3,204,744 | 3,036,791 | 2,098,892 | 2,435,278 | 2,784,143 | 2,762,873 |
| February | 3,155,897 | 2,687,704 | 2,783,197 | 2,737,158 | 2,659,734 | 2,674,609 | 2,870,547 | 2,434,314 | 2,125,449 | 2,215,308 | 2,363,914 |
| March | 2,590,349 | 2,080,994 | 2,377,354 | 1,985,996 | 2,459,434 | 2,764,407 | 2,465,488 | 2,170,505 | 2,320,633 | 2,121,288 | 2,269,499 |
| April | 2,086,804 | 1,847,490 | 2,142,403 | 1,842,709 | 1,881,642 | 1,940,314 | 1,774,323 | 1,786,825 | 1,647,935 | 1,857,442 | 1,782,927 |
| May | 1,663,474 | 1,520,140 | 1,438,386 | 1,485,112 | 1,500,658 | 1,494,578 | 1,425,737 | 1,458,408 | 1,474,072 | 1,365,168 | 1,447,177 |
| June | 1,555,455 | 1,440,184 | 1,590,622 | 1,531,008 | 1,430,358 | 1,460,615 | 1,368,363 | 1,398,730 | 1,364,676 | 1,332,794 | 1,140,434 |
| July | 1,826,282 | 1,752,650 | 1,626,309 | 1,551,044 | 1,560,879 | 1,521,756 | 1,506,729 | 1,504,828 | 1,437,222 | 1,634,233 | 1,630,187 |
| August | 1,519,550 | 1,469,072 | 1,447,319 | 1,663,519 | 1,621,696 | 1,471,888 | 1,484,864 | 1,550,560 | 1,397,740 | 1,570,665 | 1,422,814 |
| Sept | 1,499,953 | 1,419,476 | 1,508,226 | 1,367,899 | 1,361,587 | 1,408,058 | 1,401,687 | 1,304,709 | 1,347,496 | 1,361,042 | 1,240,359 |
| October | 2,048,198 | 1,830,169 | 1,642,410 | 1,601,701 | 1,802,259 | 1,562,660 | 1,578,629 | 1,479,876 | 1,354,464 | 1,574,267 | 1,428,945 |
| November | 2,270,238 | 2,185,596 | 1,937,540 | 2,317,358 | 2,225,872 | 2,030,947 | 1,800,601 | 1,753,902 | 1,910,301 | 2,047,331 | 1,999,819 |
| December | 2,897,509 | 2,991,478 | 2,999,142 | 2,912,277 | 2,749,774 | 2,486,007 | 2,098,892 | 2,388,233 | 2,596,405 | 2,450,234 | 2,368,865 |
| Total | 26,103,842 | 24,462,184 | 24,603,401 | 23,835,741 | 24,329,984 | 24,020,582 | 22,812,651 | 21,329,782 | 21,411,671 | 22,313,915 | 21,857,813 |



1 Hydro 2000's load has seen a slight decline over the past ten years with the largest total
2 wholesale being in (2009). Wholesale purchases, on the whole, have decreased by 16.27% since
3 2009.

4



3.1.7 OVERVIEW OF VARIABLES USED⁵

In Hydro 2000's case, variation in monthly electricity consumption is influenced by 4 main factors – weather (e.g. heating and cooling), which is by far the most dominant effect on most systems; the spring and fall flag; and labour force. Specifics relating to each variable used in the regression analysis are presented in the next section.

Variables Tested and Rational for including and excluding variables

During the process of testing the regression analysis, many different variables and times periods are tested to arrive at the best R-Squared. The utility's rational behind selecting or dropping certain variables involves a "no-worse" rational. In other words, if a variable is justified and does not worsen the results, it is generally kept as one of the regression variables. In this case, the Days per Month only slightly improved the R-Square. However, the utility still opted to keep them as part of the regression analysis.

The list of variables tested include *Customer Numbers, Number of Days in Month, Spring/Fall Flag, Employment, Employment Rate, Full-Time Employment, Labour Force, Participation Rate, Part-time Employment, Population, Unemployment and Unemployment Rate*. Hydro 2000 ultimately selected the following four variables to end up with an Adjusted R-Square of 92.87%

Heating and Cooling:

To determine the relationship between observed weather and energy consumption, monthly weather observations describing the extent of heating or cooling required within the month are necessary. Environment Canada publishes monthly observations on heating degree days (HDD) and cooling degree days (CDD) for selected weather stations across Canada. Heating degree-days for a given day are the number of Celsius degrees that the mean temperature is below

⁵ MFR - Multivariate Regression Model - rationale for choice, regression statistics, explanation of weather normalization methodology, sources of data for endogenous and exogenous variables, any binary variables used to either account for individual data points or to account for seasonal or cyclical trends or for discontinuities in the historical data, explanation of any specific adjustments made; data used in load forecast must be provided in Excel format, including derivation of constructed variables

18°C. Cooling degree-days for a given day are the number of Celsius degrees that the mean temperature is above 18°C. For Hydro 2000, the monthly HDD and CDD as reported in Ottawa were used. Hydro 2000 has adopted the 11-year average from 2009 to 2019 as the definition of weather normal. Our view is that a ten-year average based on the most recent ten calendar years available is a reasonable compromise that likely reflects the “average” weather experienced in recent years. Many other LDCs have also adopted this definition for the purposes of cost-of-service rebasing. The following table outlines the monthly weather data used in the regression analysis.

Table 4 - HDD and CDD as reported at Utility Location

| HDD | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| <i>January</i> | 986.70 | 771.10 | 881.80 | 817.90 | 828.80 | 895.00 | 953.50 | 790.40 | 725.50 | 844.80 | 934.90 |
| <i>February</i> | 694.00 | 630.30 | 716.80 | 655.40 | 709.80 | 776.20 | 946.40 | 747.20 | 637.70 | 478.40 | 762.20 |
| <i>March</i> | 584.60 | 443.10 | 632.70 | 440.00 | 605.90 | 762.30 | 704.00 | 582.70 | 713.30 | 597.20 | 666.10 |
| <i>April</i> | 321.10 | 248.90 | 335.00 | 339.40 | 364.20 | 378.60 | 344.50 | 423.90 | 309.50 | 439.90 | 398.80 |
| <i>May</i> | 165.30 | 107.00 | 136.80 | 82.70 | 111.10 | 116.80 | 84.30 | 132.00 | 170.20 | 87.30 | 213.20 |
| <i>June</i> | 49.60 | 30.80 | 14.00 | 26.80 | 46.90 | 15.70 | 36.00 | 34.50 | 37.30 | 26.70 | 52.70 |
| <i>July</i> | 9.00 | 5.00 | 0.00 | 0.00 | 5.20 | 5.80 | 6.60 | 1.10 | 2.20 | 0.00 | 0.00 |
| <i>August</i> | 23.20 | 11.90 | 0.40 | 3.70 | 5.70 | 21.00 | 4.90 | 1.70 | 16.30 | 2.20 | 6.30 |
| <i>September</i> | 96.10 | 100.10 | 48.20 | 97.30 | 115.20 | 97.30 | 42.90 | 60.90 | 59.10 | 84.60 | 104.00 |
| <i>October</i> | 343.00 | 296.40 | 240.40 | 231.70 | 238.80 | 240.00 | 309.80 | 267.90 | 171.70 | 321.70 | 286.80 |
| <i>November</i> | 402.50 | 468.50 | 374.90 | 513.70 | 529.20 | 499.30 | 391.40 | 427.70 | 507.10 | 568.80 | 590.60 |
| <i>December</i> | 748.30 | 723.10 | 651.10 | 695.50 | 838.30 | 676.50 | 500.50 | 708.50 | 721.00 | 738.30 | 717.20 |
| <i>Total</i> | 4423.40 | 3836.20 | 4032.10 | 3904.10 | 4399.10 | 4484.50 | 4324.80 | 4178.50 | 4070.90 | 4189.90 | 934.90 |

| CDD | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| <i>January</i> | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>February</i> | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>March</i> | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>April</i> | 3.60 | 0.20 | 0.00 | 3.20 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| <i>May</i> | 1.60 | 39.70 | 17.80 | 28.70 | 15.90 | 11.30 | 33.30 | 32.10 | 10.80 | 21.40 | 0.00 |
| <i>June</i> | 49.90 | 46.60 | 67.00 | 81.40 | 48.20 | 62.20 | 29.00 | 60.30 | 55.10 | 46.60 | 32.00 |
| <i>July</i> | 50.80 | 155.70 | 147.60 | 159.00 | 122.60 | 66.20 | 116.50 | 113.80 | 81.10 | 168.60 | 133.10 |
| <i>August</i> | 88.70 | 84.70 | 84.80 | 113.90 | 68.90 | 57.20 | 77.00 | 134.70 | 58.60 | 118.40 | 54.80 |
| <i>September</i> | 7.80 | 28.30 | 44.00 | 28.10 | 12.80 | 32.00 | 58.60 | 32.00 | 55.50 | 50.80 | 9.10 |
| <i>October</i> | 0.00 | 0.00 | 2.90 | 0.70 | 2.60 | 2.60 | 0.00 | 0.00 | 2.50 | 4.80 | 0.00 |
| <i>November</i> | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>December</i> | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Total</i> | 202.40 | 355.20 | 364.10 | 415.00 | 271.00 | 231.50 | 314.40 | 372.90 | 264.60 | 410.60 | 0.00 |

Spring Fall Flag:

Hydro 2000 also tested a “Spring/Fall Flag” variable. Although the variables did not yield particularly strong results, it did slightly improve the R-Square, and therefore Hydro 2000 opted to keep it as a variable. The variable accounts for the seasonal increase in consumption in the summer and winter months.

Labour Force:

Lastly, Hydro 2000 also tested a “Labour Force” variable. Although the variables did not yield particularly significant results, it did slightly improve the R-Square, and therefore Hydro 2000 opted to keep it as a variable. All relevant scenarios tested by the utility can be found in the regression model at tab 6.1 entitled Regression Scenarios.

Using a combination of wholesale purchases and variables listed above, a multiple regression analysis was used to develop an equation describing the relationship between monthly actual wholesale kWh and the explanatory variables. Hydro 2000 also used a correlation function to examine the relationship between the variables included in the analysis. The results of the correlation analysis for each scenario can also be found at tab 6.1 entitled Regression Scenarios.

To project the adjusted wholesale purchases for the bridge and test year, the model uses, for the most part, a simple average of the last ten years of historical data. Hydro 2000 has applied this method of prediction to all variables.

Origin of variables

- | | |
|----------------|-------------------------|
| • HDD: | Stats Canada |
| • CDD: | Stats Canada |
| • Labour Force | Stats Canada |
| • Spring/Fall | Computed by the utility |

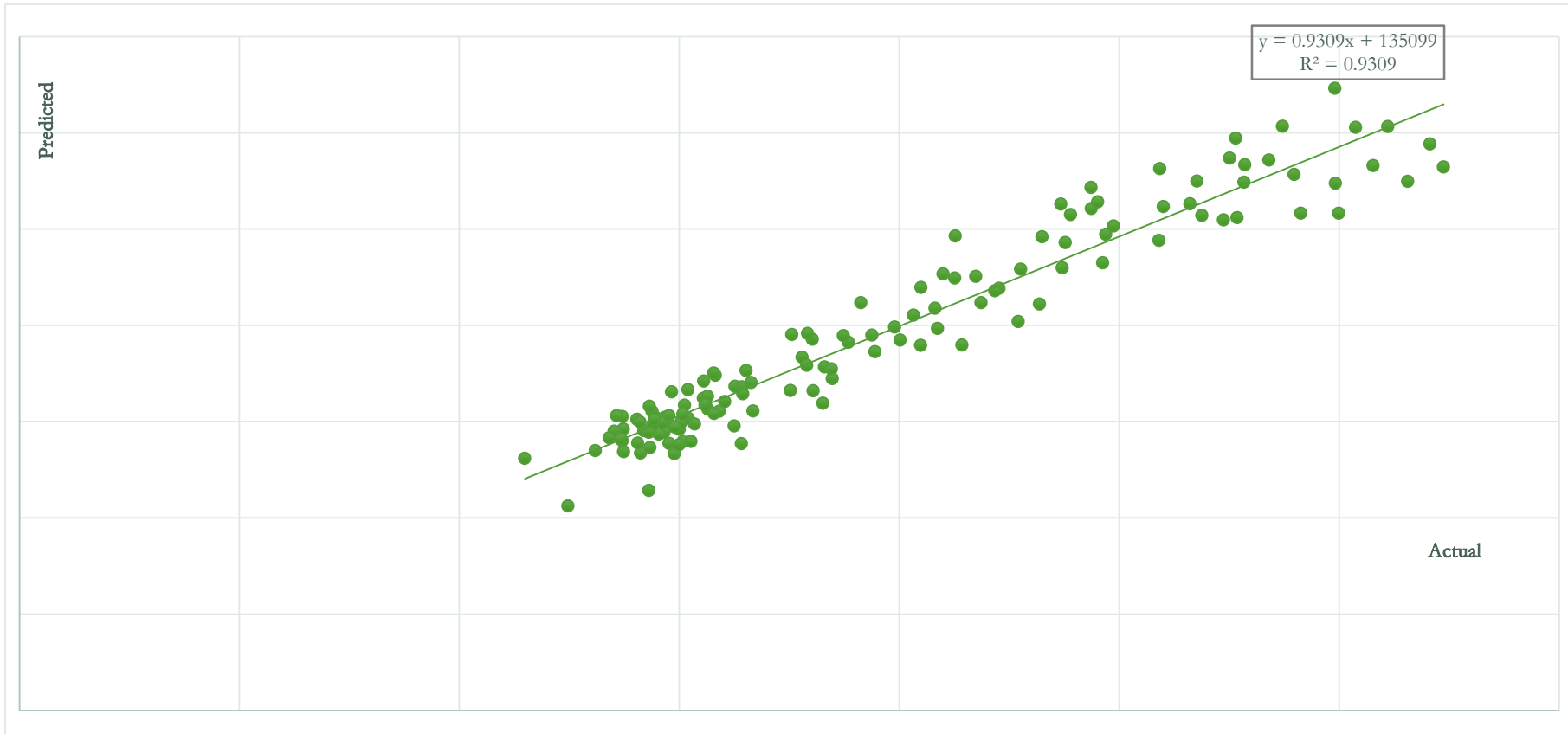
Table 5 - Correlation/Regression Results below presents the regression results used to determine the load forecast

Table 5 - Correlation/Regression Results

| Equation Parameters | | 95% Confidence/Autocorrelation | |
|---------------------|-------------|--------------------------------|---------------------------------------|
| R Squared | 0.9309 | 1.319 | Durbin-Watson Statistic |
| Adjusted R Squared | 0.9287 | 1.67 - 1.76 | Positive autocorrelation detected |
| Standard Error | 147229.7188 | 2.441 | Critical F-Statistic - 95% Confidence |
| F - Statistic | 427.4598 | 86.12% | Confidence to which analysis holds |

92.87% of the change in WS can be explained by the change in the 4 independent variables to +/- on result of Regression Equation
Therefore analysis IS Significant

| Multiple Regression Equation | | | | | Independent Analysis | | | Auto Correlation | Multicoll |
|------------------------------|---------------|----------------|--------|---------|----------------------|-------------|-------------|-------------------------------|----------------------------------------------|
| | Coefficients | Standard Error | t Stat | p Value | R Squared | Coefficient | Intercept | DI=1.70 Du=1.73 DW-Stat | Adjusted R-Squared against other Indep |
| Intercept | 5,204,105.924 | 531,172.205 | 9.797 | 0.00% | | | | | |
| HDD | 1,773.581 | 71.368 | 24.851 | 0.00% | 85.58% | 1676.34 | 1362483.25 | 0.35 | 64.08% |
| CDD | 2,352.111 | 571.252 | 4.117 | 0.01% | 24.10% | -6535.62 | 2123841.75 | 0.75 | 69.74% |
| Spring/Fall | -148,845.696 | 34,514.130 | -4.313 | 0.00% | 8.72% | -324447.05 | 2116203.50 | 1.34 | 43.57% |
| Labour force | -5,232.056 | 713.495 | -7.333 | 0.00% | 15.84% | -11495.68 | 10440838.00 | 0.15 | 8.68% |



The resulting regression equation yields an adjusted R-squared of 0.9287. When actual annual wholesale values are compared to annual values predicted by the regression equation, the mean absolute percentage error (MAPE) is 0.386 per cent. More detailed model statistics can be found in the next section.

Once Hydro 2000 calculated its preferred Regression Results, the Load Forecast model then uses the coefficients from the regression results to adjust the wholesale purchases. Table 6 as seen below, demonstrates the results of this adjustment. The table shows a comparison of the actual and predicted wholesale purchases.

Table 6 - Wholesale vs. Adjusted using the coefficients from the regression results

| Year | Wholesale | year over year | Predicted | year over year | Wholesale vs Predicted | |
|------|------------|-------------------|------------|-------------------|------------------------------|-------|
| 2009 | 26,103,842 | | 26,103,842 | | 0.00% | 0.00% |
| 2010 | 24,462,184 | -6.29% | 24,462,184 | -6.29% | 0.00% | 0.00% |
| 2011 | 24,603,401 | 0.58% | 24,603,401 | 0.58% | 0.00% | 0.00% |
| 2012 | 23,835,741 | -3.12% | 23,861,574 | -3.02% | 0.11% | 0.11% |
| 2013 | 24,329,984 | 2.07% | 24,354,290 | 2.06% | 0.10% | 0.10% |
| 2014 | 24,020,582 | -1.27% | 24,057,530 | -1.22% | 0.15% | 0.15% |
| 2015 | 22,812,651 | -5.03% | 22,851,027 | -5.02% | 0.17% | 0.17% |
| 2016 | 21,821,769 | -4.34% | 21,863,330 | -4.32% | 0.19% | 0.19% |
| 2017 | 21,411,671 | -1.88% | 21,461,565 | -1.84% | 0.23% | 0.23% |
| 2018 | 22,313,915 | 4.21% | 22,383,218 | 4.29% | 0.31% | 0.31% |
| 2019 | 21,857,813 | -2.04% | 21,923,391 | -2.05% | 0.30% | 0.30% |

Table 7 as seen below, shows the results of the mean absolute deviation (MAD), the mean square error (MSE), the root mean square (RMSE) and the mean absolute Percentage error (MAPE).

Table 7 - MAP-MSE-MAPE

| Period | Actual | Forecast | Error | Absolute Value of Error | Square of Error | Absolute Values of Errors Divided by Actual Values. |
|---------------|---------------|-----------------|--------------|--------------------------------|------------------------|------------------------------------------------------------|
| <i>t</i> | A_t | F_t | $A_t - F_t$ | $ A_t - F_t $ | $(A_t - F_t)^2$ | $ A_t - F_t /A_t$ |
| 1 | 26,103,842 | 25,253,321 | 850,521 | 850,521 | 723,385,911,196 | 0.0326 |
| 2 | 24,462,184 | 23,506,552 | 955,632 | 955,632 | 913,232,006,257 | 0.0391 |
| 3 | 24,603,401 | 24,036,602 | 566,799 | 566,799 | 321,260,761,570 | 0.0230 |
| 4 | 23,835,741 | 22,881,849 | 953,892 | 953,892 | 909,910,739,400 | 0.0400 |
| 5 | 24,329,984 | 24,041,066 | 288,918 | 288,918 | 83,473,595,473 | 0.0119 |
| 6 | 24,020,582 | 23,210,172 | 810,409 | 810,409 | 656,763,327,433 | 0.0337 |
| 7 | 22,812,651 | 23,673,379 | -860,728 | 860,728 | 740,853,454,098 | 0.0377 |
| 8 | 21,821,769 | 23,424,887 | -1,603,118 | 1,603,118 | 2,569,986,473,348 | 0.0735 |
| 9 | 21,411,671 | 23,098,608 | -1,686,937 | 1,686,937 | 2,845,755,959,767 | 0.0788 |
| 10 | 22,313,915 | 23,169,630 | -855,715 | 855,715 | 732,247,801,719 | 0.0383 |
| | Totals | | -580326.688 | 9432668.965 | 10496870030262.500 | 0.409 |

- 1
- 2 The mean absolute deviation (MAD) is the sum of absolute differences between the actual value
- 3 and the forecast divided by the number of observations.
- 4 Mean square error (MSE) is probably the most commonly used error metric. It penalizes larger
- 5 errors because squaring larger numbers has a greater impact than squaring smaller numbers.
- 6 The MSE is the sum of the squared errors divided by the number of observations.
- 7 Mean Absolute Percentage Error (MAPE) is the average of absolute errors divided by actual
- 8 observation values.
- 9 In accordance with the Filing Requirements, Hydro 2000 has also provided a 2020 forecast
- 10 assuming twenty-year normal weather conditions. Table 8 below displays 20 years of historical
- 11 Heating Degree Days and Cooling Degree Days. The impact of using both a 11-year average as
- 12 well as a 20-year average to weather normalize wholesale purchases is presented in Table 9.

Table 8 - Forecast using a twenty-year weather normalization

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 10-year avg | 20 year avg |
|------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------------|-------------|
| HDD | | | | | | | | | | | | | | | | | | | | | | |
| Jan | 875.0 | 848.0 | 709.0 | 977.0 | 1045.0 | 921.0 | 734.0 | 797.0 | 754.0 | 986.7 | 771.1 | 881.8 | 817.9 | 828.8 | 895.0 | 953.5 | 790.4 | 725.5 | 844.8 | 934.90 | 844.4 | 854.5 |
| Feb | 728.0 | 747.0 | 669.0 | 842.0 | 750.0 | 701.0 | 721.0 | 820.0 | 774.0 | 694.0 | 630.3 | 716.8 | 655.4 | 709.8 | 776.2 | 946.4 | 747.2 | 637.7 | 478.4 | 762.20 | 706.0 | 725.3 |
| Mar | 502.0 | 652.0 | 652.0 | 675.0 | 559.0 | 669.0 | 600.0 | 643.0 | 721.0 | 584.6 | 443.1 | 632.7 | 440.0 | 605.9 | 762.3 | 704.0 | 582.7 | 713.3 | 597.2 | 666.10 | 614.7 | 620.2 |
| Apr | 391.0 | 338.0 | 359.0 | 425.0 | 378.0 | 325.0 | 322.0 | 361.0 | 300.0 | 321.1 | 248.9 | 335.0 | 339.4 | 364.2 | 378.6 | 344.5 | 423.9 | 309.5 | 439.9 | 398.80 | 358.3 | 355.1 |
| May | 152.0 | 110.0 | 228.0 | 154.0 | 166.0 | 205.0 | 128.0 | 157.0 | 185.0 | 165.3 | 107.0 | 136.8 | 82.7 | 111.1 | 116.8 | 84.3 | 132.0 | 170.2 | 87.3 | 213.20 | 124.1 | 144.6 |
| Jun | 63.0 | 26.0 | 62.0 | 39.0 | 54.0 | 16.0 | 28.0 | 34.0 | 22.0 | 49.6 | 30.8 | 14.0 | 26.8 | 46.9 | 15.7 | 36.0 | 34.5 | 37.3 | 26.7 | 52.70 | 32.1 | 35.8 |
| Jul | 12.0 | 22.0 | 5.0 | 2.0 | 2.0 | 3.0 | 0.0 | 12.0 | 0.0 | 9.0 | 5.0 | 0.0 | 0.0 | 5.2 | 5.8 | 6.6 | 1.1 | 2.2 | 0.0 | 0.00 | 2.6 | 4.6 |
| Aug | 18.0 | 5.0 | 7.0 | 13.0 | 30.0 | 8.0 | 18.0 | 20.0 | 14.0 | 23.2 | 11.9 | 0.4 | 3.7 | 5.7 | 21.0 | 4.9 | 1.7 | 16.3 | 2.2 | 6.30 | 7.4 | 11.5 |
| Sep | 138.0 | 90.0 | 57.0 | 60.0 | 67.0 | 59.0 | 121.0 | 76.0 | 95.0 | 96.1 | 100.1 | 48.2 | 97.3 | 115.2 | 97.3 | 42.9 | 60.9 | 59.1 | 84.6 | 104.00 | 81.0 | 83.4 |
| Oct | 291.0 | 266.0 | 370.0 | 337.0 | 287.0 | 270.0 | 336.0 | 228.0 | 322.0 | 343.0 | 296.4 | 240.4 | 231.7 | 238.8 | 240.0 | 309.8 | 267.9 | 171.7 | 321.7 | 286.80 | 260.5 | 282.8 |
| Nov | 489.0 | 410.0 | 535.0 | 469.0 | 484.0 | 484.0 | 417.0 | 517.0 | 503.0 | 402.5 | 468.5 | 374.9 | 513.7 | 529.2 | 499.3 | 391.4 | 427.7 | 507.1 | 568.8 | 590.60 | 487.1 | 479.1 |
| Dec | 883.0 | 602.0 | 728.0 | 722.0 | 815.0 | 762.0 | 610.0 | 788.0 | 797.0 | 748.3 | 723.1 | 651.1 | 695.5 | 838.3 | 676.5 | 500.5 | 708.5 | 721.0 | 738.3 | 717.20 | 697.0 | 721.3 |
| | | | | | | | | | | | | | | | | | | | | | | |
| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 10-year avg | 20 year |
| CDD | | | | | | | | | | | | | | | | | | | | | | |
| Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 |
| Feb | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 |
| Mar | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 |
| Apr | 0.0 | 0.0 | 10.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 0.2 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.00 | 0.4 | 1.0 |
| May | 3.0 | 14.0 | 7.0 | 0.0 | 4.0 | 2.0 | 17.0 | 17.3 | 0.0 | 1.6 | 39.7 | 17.8 | 28.7 | 15.9 | 11.3 | 33.3 | 32.1 | 10.8 | 21.4 | 0.00 | 21.1 | 13.8 |
| Jun | 31.0 | 76.0 | 40.0 | 55.0 | 27.0 | 112.0 | 48.0 | 66.9 | 61.0 | 49.9 | 46.6 | 67.0 | 81.4 | 48.2 | 62.2 | 29.0 | 60.3 | 55.1 | 46.6 | 32.00 | 52.8 | 54.8 |
| Jul | 59.0 | 78.0 | 121.0 | 90.0 | 87.0 | 129.0 | 131.0 | 65.1 | 79.0 | 50.8 | 155.7 | 147.6 | 159.0 | 122.6 | 66.2 | 116.5 | 113.8 | 81.1 | 168.6 | 133.10 | 126.4 | 107.7 |
| Aug | 60.0 | 128.0 | 107.0 | 106.0 | 48.0 | 115.0 | 68.0 | 79.3 | 50.0 | 88.7 | 84.7 | 84.8 | 113.9 | 68.9 | 57.2 | 77.0 | 134.7 | 58.6 | 118.4 | 54.80 | 85.3 | 85.2 |
| Sep | 14.0 | 26.0 | 51.0 | 24.0 | 11.0 | 33.0 | 5.0 | 25.7 | 25.0 | 7.8 | 28.3 | 44.0 | 28.1 | 12.8 | 32.0 | 58.6 | 32.0 | 55.5 | 50.8 | 9.10 | 35.1 | 28.7 |
| Oct | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 6.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 2.9 | 0.7 | 2.6 | 2.6 | 0.0 | 0.0 | 2.5 | 4.8 | 0.00 | 1.6 | 1.4 |
| Nov | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 |
| Dec | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 |

1 **Table 9 - Forecast using a ten year vs. twenty-year weather normalization**

| <i>Date</i> | <i>Weather Normalized 10Year</i> | <i>Weather Normalized 20Year</i> |
|-----------------------|------------------------------------------|------------------------------------------|
| <i>2020-January</i> | 2700926.12 | 2713552.462 |
| <i>2020-February</i> | 2458835.42 | 2447138.22 |
| <i>2020-March</i> | 2146938.23 | 2155389.779 |
| <i>2020-April</i> | 1695633.37 | 1692112.194 |
| <i>2020-May</i> | 1330914.06 | 1341309.258 |
| <i>2020-June</i> | 1411215.85 | 1413878.541 |
| <i>2020-July</i> | 1541517.84 | 1542265.754 |
| <i>2020-August</i> | 1454716.68 | 1455393.874 |
| <i>2020-September</i> | 1297211.72 | 1294047.275 |
| <i>2020-October</i> | 1520413.98 | 1530932.102 |
| <i>2020-November</i> | 1896231.26 | 1899799.76 |
| <i>2020-December</i> | 2433102.65 | 2486419.354 |

2

3.1.9 DETERMINATION OF CUSTOMER FORECAST

Hydro 2000 has used a simple geometric mean function to determine the forecasted number of customers of 2019 and 2020. The geometric mean is more appropriate to use when dealing with percentages and rates of change. Although the formula is somewhat simplistic, it is reasonably representative of Hydro 2000's natural customer growth. The geometric mean results were analyzed by Hydro 2000 and then further adjusted for known particulars – in Hydro 2000's case the MicroFit related consumption was removed from the Wholesale Purchases. Historical customer counts and projected customer counts for 2019 and 2020 are presented in Table 10 below. A variance analysis of customer counts and projections is presented at 3.3.10.

1

Table 10 - Customer Forecast

| <i>Date</i> | <i>Residential</i> | | <i>General Service < 50 kW</i> | | <i>General Service > 50 to 4999 kW</i> | | <i>Unmetered Scattered Load</i> | | <i>Street Lighting</i> | |
|-------------|---------------------------------|--------------------|-----------------------------------|--------------------|-------------------------------------------|--------------------|---------------------------------|--------------------|---------------------------------|--------------------|
| | <i>Customers or Connections</i> | <i>Growth Rate</i> | <i>Customers or Connections</i> | <i>Growth Rate</i> | <i>Customers or Connections</i> | <i>Growth Rate</i> | <i>Customers or Connections</i> | <i>Growth Rate</i> | <i>Customers or Connections</i> | <i>Growth Rate</i> |
| 2009 | 979 | | 141 | | 12 | | 6 | | 368 | |
| 2010 | 991 | 1.0127 | 141 | 1.0006 | 12 | 1.0035 | 6 | 1.0000 | 368 | 1.0000 |
| 2011 | 1044 | 1.0537 | 143 | 1.0142 | 11 | 0.9273 | 6 | 1.0000 | 368 | 1.0000 |
| 2012 | 1064 | 1.0186 | 142 | 0.9942 | 11 | 0.9851 | 6 | 0.9167 | 368 | 1.0000 |
| 2013 | 1069 | 1.0052 | 141 | 0.9877 | 11 | 0.9871 | 4 | 0.7273 | 368 | 1.0000 |
| 2014 | 1072 | 1.0025 | 142 | 1.0074 | 11 | 0.9923 | 4 | 1.0000 | 369 | 1.0016 |
| 2015 | 1075 | 1.0031 | 142 | 1.0000 | 11 | 1.0494 | 4 | 1.0000 | 370 | 1.0038 |
| 2016 | 1068 | 0.9930 | 143 | 1.0103 | 11 | 0.9728 | 4 | 1.0000 | 370 | 1.0000 |
| 2017 | 1083 | 1.0142 | 142 | 0.9936 | 12 | 1.0758 | 4 | 1.0000 | 370 | 1.0000 |
| 2018 | 1085 | 1.0022 | 141 | 0.9924 | 12 | 1.0282 | 4 | 1.0000 | 370 | 1.0000 |
| Geomean | | 1.0115 | | 1.0000 | | 1.0015 | | 0.9559 | | 1.0006 |
| 2019 | 1087 | | 141 | | 13 | | 4 | | 370 | |
| 2020 | 1100 | | 141 | | 13 | | 4 | | 370 | |

2

Adjusted for known customer additions

| | | | | | | | | | | |
|-------------|------|--------|-----|--------|----|--------|---|--------|-----|--------|
| 2019 | 1087 | 1.0018 | 141 | 1.0000 | 13 | 1.0685 | 4 | 0.9559 | 370 | 1.0006 |
| 2020 | 1113 | 1.0235 | 141 | 1.0000 | 13 | 1.0015 | 4 | 0.9559 | 370 | 1.0006 |

3

3.1.10 DETERMINATION OF WEATHER NORMALIZED FORECAST

Allocation to specific weather sensitive rate classes (Residential, GS<50, GS>50) is based on the share (%) of each classes' actual retail kWh (exclusive of distribution losses) and a share of actual wholesale kWh. Weather normalized wholesale kWh, for historical years, are allocated to these classes based on these historical shares. Forecast values for 2020 are allocated based on the most recent year's (2019) actual share. For those rate classes that use kW consumption as a billing determinant, sales for these customer classes are then converted to kW based on the historical volumetric relationship between kWh and kW. The utility then forecasts a consumption per customer and adds new customer's load to the total consumption for the class.

Allocation to specific non-weather sensitive rate classes (GS>50, USL, Sentinel and Streetlights) is based on an average of demand/customer. The utility then uses an appropriate historical average to determine an average demand per customer. This average is then applied to the customer count for the bridge and test year.⁶

Explanations for material changes in the definition of or major changes over time, explanations of the bridge and test year forecasts by rate class, variance analysis between the last OEB-approved and the actual and weather-normalized actual results are presented at Section 3.3.1 Variance Analysis of Load Forecast

⁶ MFR - For consumption and demand - explanation to support how kWh are converted to kW for applicable demand-billed classes, year-over-year variances in kWh and kW by rate class and for system consumption overall (kWh) with explanations for material changes in the definition of or major changes over time (should be done for both historical actuals against each other and historical weather-normalized actuals over time), explanations of the bridge and test year forecasts by rate class, variance analysis between the last OEB-approved and the actual and weather-normalized actual results

3.1.11 LOAD FORECAST BY CLASS.

The following section presents class specific adjusted historical and forecast values for those classes that have weather sensitive load. Historic class, specific kWh consumption is allocated based on each class' share in wholesale kWh, exclusive of distribution losses. Forecast class values are allocated based on a 11 year average of historical ratio.

Table 11 - Residential Forecast (Weather Sensitive)

| <i>Year</i> | Residential Actual kWh | Total Actual Wholesale | Ratio% | Predicted Wholesale | Residential Weather Normal | Per customer |
|-------------|-----------------------------------|-----------------------------------|---------------|--------------------------------|-------------------------------------------|---------------------|
| 2009 | 14,568,734 | 26,103,842 | 57.69% | 25,253,321 | 14,568,734 | 14,888 |
| 2010 | 15,503,393 | 24,462,184 | 65.95% | 23,506,552 | 15,503,393 | 15,644 |
| 2011 | 14,112,097 | 24,603,401 | 58.71% | 24,036,602 | 14,112,097 | 13,514 |
| 2012 | 13,741,372 | 23,861,574 | 60.05% | 22,881,849 | 13,741,372 | 12,919 |
| 2013 | 14,121,205 | 24,354,290 | 58.74% | 24,041,066 | 14,121,205 | 13,207 |
| 2014 | 13,907,110 | 24,057,530 | 59.92% | 23,210,172 | 13,907,110 | 12,975 |
| 2015 | 13,022,914 | 22,851,027 | 55.01% | 23,673,379 | 13,022,914 | 12,113 |
| 2016 | 12,346,401 | 21,863,330 | 52.71% | 23,424,887 | 12,346,401 | 11,403 |
| 2017 | 12,078,410 | 21,461,565 | 52.29% | 23,098,608 | 12,078,410 | 11,131 |
| 2018 | 12,791,618 | 22,383,218 | 55.21% | 23,169,630 | 12,791,618 | 11,768 |
| 2019 | 12,775,525 | 21,923,391 | 59.07% | 21,629,284 | 12,775,525 | 11,753 |
| 2020 | | <i>Avg</i> | 57.76% | 21,913,746 | 12,657,112 | 11,511 |

1 **Table 12 - General Service <50 Forecast (Weather Sensitive)**

| Year | Actual kWh | Total Wholesale | Ratio% | Predicted Wholesale | Weather Normal | Per customer |
|-------------|-------------------|------------------------|---------------|----------------------------|-----------------------|---------------------|
| 2009 | 4,924,163 | 26,103,842 | 19.50% | 25,253,321 | 4,924,163 | 34,923 |
| 2010 | 4,868,403 | 24,462,184 | 20.71% | 23,506,552 | 4,868,403 | 34,507 |
| 2011 | 4,617,455 | 24,603,401 | 19.21% | 24,036,602 | 4,617,455 | 32,271 |
| 2012 | 4,027,546 | 23,861,574 | 17.60% | 22,881,849 | 4,027,546 | 28,313 |
| 2013 | 4,342,696 | 24,354,290 | 18.06% | 24,041,066 | 4,342,696 | 30,909 |
| 2014 | 4,287,878 | 24,057,530 | 18.47% | 23,210,172 | 4,287,878 | 30,294 |
| 2015 | 4,333,237 | 22,851,027 | 18.30% | 23,673,379 | 4,333,237 | 30,615 |
| 2016 | 4,261,434 | 21,863,330 | 18.19% | 23,424,887 | 4,261,434 | 29,800 |
| 2017 | 3,971,545 | 21,461,565 | 17.19% | 23,098,608 | 3,971,545 | 27,952 |
| 2018 | 4,062,996 | 22,383,218 | 17.54% | 23,169,630 | 4,062,996 | 28,816 |
| 2019 | 3,995,372 | 21,923,391 | 18.47% | 21,629,284 | 3,995,372 | 28,336 |
| 2020 | | Avg | 18.48% | 21,913,746 | 4,049,207 | 28,718 |

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3 **Table 13 - General Service >50 (kWh) (Weather Sensitive)**

| Year | Actual kWh | Total Wholesale | Ratio% | Predicted Wholesale | Weather Normal | Per customer |
|-------------|-------------------|------------------------|---------------|----------------------------|-----------------------|---------------------|
| 2009 | 4,746,135 | 26,103,842 | 18.79% | 25,253,321 | 4,746,135 | 395,511 |
| 2010 | 4,892,263 | 24,462,184 | 20.81% | 23,506,552 | 4,892,263 | 406,278 |
| 2011 | 4,597,548 | 24,603,401 | 19.13% | 24,036,602 | 4,597,548 | 411,721 |
| 2012 | 4,474,560 | 23,861,574 | 19.56% | 22,881,849 | 4,474,560 | 406,778 |
| 2013 | 4,601,708 | 24,354,290 | 19.14% | 24,041,066 | 4,601,708 | 423,795 |
| 2014 | 4,359,419 | 24,057,530 | 18.78% | 23,210,172 | 4,359,419 | 404,586 |
| 2015 | 4,194,222 | 22,851,027 | 17.72% | 23,673,379 | 4,194,222 | 370,918 |
| 2016 | 3,976,846 | 21,863,330 | 16.98% | 23,424,887 | 3,976,846 | 361,531 |
| 2017 | 4,195,330 | 21,461,565 | 18.16% | 23,098,608 | 4,195,330 | 354,535 |
| 2018 | 4,274,766 | 22,383,218 | 18.45% | 23,169,630 | 4,274,766 | 351,351 |
| 2019 | 4,084,117 | 21,923,391 | 18.88% | 21,629,284 | 4,084,117 | 314,163 |
| 2020 | | Avg | 18.76% | 21,913,746 | 4,111,838 | 315,811 |

4

5

1 **Table 14 - General Service >50 Demand (kW) (Non-Weather Sensitive)**

| <i>Year</i> | <i>kWh</i> | <i>kW</i> | <i>KW/kWh Ratio</i> |
|-------------|------------|-----------|-------------------------|
| 2009 | 4,746,135 | 12,344 | 0.00260 |
| 2010 | 4,892,263 | 12,630 | 0.00258 |
| 2011 | 4,597,548 | 11,789 | 0.00256 |
| 2012 | 4,474,560 | 12,187 | 0.00272 |
| 2013 | 4,601,708 | 12,095 | 0.00263 |
| 2014 | 4,359,419 | 11,224 | 0.00257 |
| 2015 | 4,194,222 | 10,151 | 0.00242 |
| 2016 | 3,976,846 | 13,326 | 0.00335 |
| 2017 | 4,195,330 | 12,007 | 0.00286 |
| 2018 | 4,274,766 | 10,589 | 0.00248 |
| 2019 | 4,084,117 | 10,939 | 0.00268 |
| 2020 | 4,111,838 | 11,013 | 0.00268 |
| Avg | 4,746,135 | 12,344 | 0.00260 |

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3 **Table 15 - Street Lighting (Non-Weather Sensitive)**

| <i>Year</i> | <i>kWh</i> | <i>kW</i> | <i>Connection</i> | <i>kWh per connection</i> | <i>KW per connection</i> | <i>KW/kWh Ratio</i> |
|-------------|------------|-----------|-------------------|-------------------------------|------------------------------|-------------------------|
| 2010 | 334,038 | 972 | 368 | 908 | 2.6413 | 0.00291 |
| 2011 | 352,032 | 972 | 368 | 957 | 2.6413 | 0.00276 |
| 2012 | 348,332 | 972 | 368 | 947 | 2.6413 | 0.00279 |
| 2013 | 327,162 | 949 | 368 | 889 | 2.5788 | 0.00290 |
| 2014 | 179,624 | 512 | 369 | 487 | 1.3891 | 0.00285 |
| 2015 | 152,105 | 420 | 370 | 411 | 1.1351 | 0.00276 |
| 2016 | 152,560 | 420 | 370 | 412 | 1.1351 | 0.00275 |
| 2017 | 153,257 | 420 | 370 | 414 | 1.1351 | 0.00274 |
| 2018 | 153,342 | 420 | 370 | 414 | 1.1351 | 0.00274 |
| 2019 | 152,908 | 420 | 370 | 413 | 1.1345 | 0.00275 |
| 2020 | 153,000 | 421 | 370 | 413 | 1.1365 | 0.00275 |
| 2020 | 153,000 | 421 | 370 | 413 | 1.1351 | 0.00275 |
| | | | | | | |
| Avg | | | | 413 | 1.1351 | 0.00281 |
| | | | | | | |
| 2010 | 334,038 | 972 | 368 | 908 | 2.6413 | 0.00291 |

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Table 16 - Unmetered Scattered Load (Non-Weather Sensitive)

| <i>Year</i> | kWh | Customer |
|--------------------|------------|-----------------|
| <i>2009</i> | 18,804 | 6 |
| <i>2010</i> | 18,778 | 6 |
| <i>2011</i> | 18,517 | 6 |
| <i>2012</i> | 18,188 | 6 |
| <i>2013</i> | 17,280 | 4 |
| <i>2014</i> | 17,280 | 4 |
| <i>2015</i> | 17,280 | 4 |
| <i>2016</i> | 17,280 | 4 |
| <i>2017</i> | 17,280 | 4 |
| <i>2018</i> | 17,280 | 4 |
| <i>2019</i> | 17,280 | 4 |
| <i>2020</i> | 17,280 | 4 |
| <i>Avg</i> | | 5 |

2

3.1.12 FINAL NORMALIZED LOAD FORECAST

Table 17 below presents historical and projected weather normalized Load Forecast by customer class.

Table 17 - Final Load Forecast

| | Year | 2019 | 2020 | 2020 CDM Adjusted |
|-------------------------------------------|-----------|------------|------------|-------------------|
| Residential | Cust/Conn | 1,087 | 1,113 | 1,113 |
| | kWh | 12,775,525 | 12,657,112 | 12,367,886 |
| | kW | | | |
| | | | | |
| General Service < 50 kW | Cust/Conn | 141 | 141 | 141 |
| | kWh | 3,995,372 | 4,049,207 | 3,861,286 |
| | kW | | | |
| | | | | |
| General Service > 50 to 4999 kW | Cust/Conn | 13 | 13 | 13 |
| | kWh | 4,084,117 | 4,111,838 | 3,984,230 |
| | kW | 10,939 | 11,013 | 10,671 |
| | | | | |
| Unmetered Scattered Load | Cust/Conn | 4 | 4 | 4 |
| | kWh | 17,280 | 17,280 | 17,280 |
| | kW | 1,087 | 1,113 | 1,113 |
| | | | | |
| Street Lighting | Cust/Conn | 370 | 370 | 370 |
| | kWh | 152,908 | 153,000 | 153,000 |
| | kW | 420 | 421 | 421 |
| | | | | |
| Total | Cust/Conn | 1,615 | 1,641 | 1,641 |
| | kWh | 21,025,202 | 20,988,437 | 20,383,683 |
| | kW | 11,359 | 11,434 | 11,092 |

3.2 IMPACT AND PERSISTENCE FROM HISTORICAL CDM PROGRAMS⁷

3.2.1 LOAD FORECAST CDM ADJUSTMENT WORK FORM

While the forecast as presented in the previous section assumes some level of embedded “natural conservation,” it does not consider the impacts on energy purchases arising from CDM programs undertaken by Hydro 2000’s customers. The load forecast is a projection of the expected level of electricity purchases that would occur over the specified period in the absence of any CDM initiatives. Therefore, in accordance with the filing requirements, the forecasted energy purchases are further adjusted to reflect CDM reductions.

The schedule to achieve CDM targets are presented in Table 18 below:

⁷ MFR - Quantification of any impacts arising from the persistence of historical CDM programs as well as the forecasted impacts arising from new programs in the bridge and test years through the current 6-year CDM framework.

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Table 18 – OEB Appendix 2-I ⁸

| 2015-2020 CDM Program - 2015, first year of the current CDM plan | | | | | | | |
|------------------------------------------------------------------|-----------|------------|------------|------------|------------|------------|--------------|
| 6 Year (2015-2020) kWh Target: | | | | | | | |
| 1,050,000 | | | | | | | |
| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
| % | | | | | | | |
| 2015 CDM Programs | 1.64% | 1.61% | 1.58% | 1.57% | 1.57% | 1.53% | 9.50% |
| 2016 CDM Programs | | 5.13% | 5.13% | 5.13% | 5.13% | 5.13% | 25.65% |
| 2017 CDM Programs | | | 7.71% | 6.19% | 6.19% | 6.19% | 26.29% |
| 2018 CDM Programs | | | | 5.58% | 5.58% | 5.58% | 16.74% |
| 2019 CDM Programs | | | | 5.39% | 5.39% | 10.79% | |
| 2020 CDM Programs | | | | 11.03% | 11.03% | | |
| Total in Year | 1.64% | 6.75% | 14.42% | 18.47% | 23.87% | 34.85% | 100.00% |
| | | | | | | | |
| kWh | | | | | | | |
| 2015 CDM Programs | 90,935.00 | 89,503.00 | 87,315.00 | 87,132.00 | 87,132.00 | 84,690.00 | 526,707.00 |
| 2016 CDM Programs | | 284,454.00 | 284,393.00 | 284,331.00 | 284,331.00 | 284,331.00 | 1,421,840.00 |
| 2017 CDM Programs | | | 427,620.00 | 343,324.00 | 343,324.00 | 343,324.00 | 1,457,592.00 |
| 2018 CDM Programs | | | | 309,292.33 | 309,292.33 | 309,292.33 | 927,876.99 |
| 2019 CDM Programs | | | | 298,982.45 | 298,982.45 | 597,964.91 | |
| 2020 CDM Programs | | | | | 611,543.57 | 611,543.57 | |

⁸ MFR - Completed Appendix 2-I

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| Weight Factor for Inclusion in CDM Adjustment to 2014 Load Forecast | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|---------------------------------------------------------------|
| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | |
| Weight Factor for each year's CDM program impact on 2014 load forecast <i>Default Value selection rationale.</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 1 | 0.5 | Distributor can select "0", "0.5", or "1" from drop-down list |

| 2011-2014 and 2015-2020 LRAMVA and 2015 CDM adjustment to Load Forecast | | | | | | | | | | |
|-------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|
| | 2012 kWh | 2013 kWh | 2014 kWh | 2015 kWh | 2016 kWh | 2017 kWh | 2018 kWh | 2019 kWh | 2020 kWh | Total for 2019 kWh |
| Amount used for CDM threshold for LRAMVA (2012) | 255,525.00 | 255,525.00 | 255,525.00 | 255,525.00 | 255,525.00 | 255,525.00 | 255,525.00 | | | |
| Amount used for CDM threshold for LRAMVA (2019) | | | | | | | | 298,982.45 | 611,543.57 | 910,526.02 |
| Manual Adjustment for 2019 Load Forecast (billed basis) | - | - | | | | | | 298,982.45 | 305,771.79 | 604,754.24 |

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- 1 The values entered in the 2015-2017 report originate from the IESO issued Final OPA CDM
- 2 Results. The most recent IESO results are filed along with this Exhibit.
- 3 The values entered in the 2018-2020 originate from Hydro 2000's approved CDM plan which
- 4 shows Hydro 2000's targets to be 1.05 GWh. ⁹

⁹ MFR - CDM Adjustment - account for CDM in [Test Year] load forecast. Consider impact of persistence of historical CDM and impact of new programs. Adjustments may be required for IESO reported results which are full year impacts

3.2.2 ALLOCATION OF CDM RESULTS

Table 19 below presents the method behind Hydro 2000's allocation of CDM reduction in consumption.

Table 19 - CDM adjustments to Load Forecast

Weather Adjusted Load Forecast Results

| | Year | 2019 | 2020 | 2018-2020 CDM Plan | total | Share | Target | Target |
|---------------------------------|------------------|-------------------|-------------------|--------------------|---------|---------|-------------------|-------------------|
| Residential | Cust/Conn | 1,087 | 1,113 | | | | | |
| | kWh | 12,775,525 | 12,657,112 | 435,462 | 435,462 | 47.83% | 289,226 | 12,367,886 |
| | kW | | - | | | | | |
| | | | | | | | | |
| GS < 50 kW | Cust/Conn | 141 | 141 | | | | | |
| | kWh | 3,995,372 | 4,049,207 | 282,936 | 282,936 | 31.07% | 187,920 | 3,861,286 |
| | kW | | - | | | | | |
| | | | | | | | | |
| GS > 50 to 4999 kW | Cust/Conn | 13 | 13 | | | | | |
| | kWh | 4,084,117 | 4,111,838 | 192,129 | 192,129 | 21.10% | 127,608 | 3,984,230 |
| | kW | 10,939 | 11,013 | 515 | 515 | 100.00% | 342 | 10,671 |
| | | | | | | | | |
| Unmetered Scattered Load | Cust/Conn | 4 | 4 | | | | | |
| | kWh | 17,280 | 17,280 | | | 0.00% | - | 17,280 |
| | kW | - | - | | | 0.00% | | |
| | | | | | | | | |
| Street Lighting | Cust/Conn | 370 | 370 | | | | | 370 |
| | kWh | 152,908 | 153,000 | | | 0.00% | - | 153,000 |
| | kW | 420 | 421 | | | 0.00% | | 421 |
| | | | | | | | | |
| Total | Cust/Conn | 1,245 | 1,270 | | | | | |
| | kWh | 21,025,202 | 20,988,437 | | | 100.00% | | 20,383,683 |
| | kW | 11,359 | 11,434 | | | 100.00% | 604,754.24 | 11,092 |

The following table shows the per class allocation of the amount used for CDM threshold for LRAMVA (2020).

1 **Table 20 - Allocation of amount used for CDM threshold for LRAMVA¹⁰**

| | Year | CDM Plan | total | Share | Target |
|---------------------------------|------------------|----------------|----------------|----------------|-------------------|
| Residential | Cust/Conn | | | | |
| | kWh | 435,462 | 435,462 | 47.83% | 435,462 |
| | kW | | | | |
| | | | | | |
| GS < 50 kW | Cust/Conn | | | | |
| | kWh | 282,936 | 282,936 | 31.07% | 282,936 |
| | kW | | | | |
| | | | | | |
| GS > 50 to 4999 kW | Cust/Conn | | | | |
| | kWh | 192,129 | 192,129 | 21.10% | 192,129 |
| | kW | 515 | | | 313 |
| | | | | | |
| Unmetered Scattered Load | Cust/Conn | | | | |
| | kWh | | | | |
| | kW | | | | |
| | | | | | |
| Street Lighting | Cust/Conn | | | | |
| | kWh | | | | |
| | kW | | | | |
| | | | | | |
| Total | Cust/Conn | | | | |
| | kWh | 911,041 | 910,526 | 100.00% | |
| | kW | | | | 910,526.02 |

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¹⁰ MFR - CDM savings for [Hist Year 3] LRAMVA balance and adjustment to [Hist Year 3] load forecast; data by customer class and for both kWh and, as applicable, kW. Provide rationale for level of CDM reductions in [Hist Year 3] load forecast

1 3.2.3 FINAL CDM ADJUSTED LOAD FORECAST

2 The table below provides details of the Final Customer and Volume Load Forecast for each of
3 the years. This summary of the billing determinants by rate class will be used to develop Hydro
4 2000's proposed rates.

Table 21 - Final Customer and Volume Load Forecast

Customers or Connections

| Customer Class Name | Actual | | | | | | | | Projected | |
|-------------------------------------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|--------------|
| | Last Board Appr | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| <i>Residential</i> | 1,061 | 1,064 | 1,069 | 1,072 | 1,075 | 1,068 | 1,083 | 1,085 | 1,087 | 1,113 |
| <i>General Service < 50 kW</i> | 142 | 142 | 141 | 142 | 142 | 143 | 142 | 141 | 141 | 141 |
| <i>General Service > 50 to 4999 kW</i> | 12 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 13 | 13 |
| <i>Street Lighting</i> | 368 | 368 | 368 | 369 | 370 | 370 | 370 | 370 | 370 | 370 |
| <i>Unmetered Scattered Load</i> | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| TOTAL | 1,589 | 1,590 | 1,593 | 1,597 | 1,602 | 1,596 | 1,611 | 1,612 | 1,615 | 1,641 |

Consumption (kWh)

| Customer Class Name | Actual | | | | | | | | Projected | |
|-------------------------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Last Board Appr | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| <i>Residential</i> | 14,578,597 | 13,741,372 | 14,121,205 | 13,907,110 | 13,022,914 | 12,346,401 | 12,078,410 | 12,791,618 | 12,775,525 | 12,657,112 |
| <i>General Service < 50 kW</i> | 4,672,050 | 4,027,546 | 4,342,696 | 4,287,878 | 4,333,237 | 4,261,434 | 3,971,545 | 4,062,996 | 3,995,372 | 4,049,207 |
| <i>General Service > 50 to 4999 kW</i> | 4,632,461 | 4,474,560 | 4,601,708 | 4,359,419 | 4,194,222 | 3,976,846 | 4,195,330 | 4,274,766 | 4,084,117 | 4,111,838 |
| <i>Street Lighting</i> | 343,757 | 348,332 | 327,162 | 179,624 | 152,105 | 152,560 | 153,257 | 153,342 | 152,908 | 153,000 |
| <i>Unmetered Scattered Load</i> | 18,329 | 18,188 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 | 17,280 |
| TOTAL | 24,245,194 | 22,609,998 | 23,410,051 | 22,751,311 | 21,719,758 | 20,754,521 | 20,415,822 | 21,300,002 | 21,025,202 | 20,988,437 |

1

CDM Adjusted Consumption (kWh)

| Customer Class Name | Projected | |
|-------------------------------------------|-------------------|--|
| | 2020 | |
| <i>Residential</i> | 12,367,886 | |
| <i>General Service < 50 kW</i> | 3,861,286 | |
| <i>General Service > 50 to 4999 kW</i> | 3,984,230 | |
| <i>Street Lighting</i> | 153,000 | |
| <i>Unmetered Scattered Load</i> | 17,280 | |
| TOTAL | 20,383,683 | |

Consumption (kW)

| Customer Class Name | Actual | | | | | | | | Projected | |
|-------------------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------|
| | Last Board Appr | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| <i>Residential</i> | | | | | | | | | | |
| <i>General Service < 50 kW</i> | | | | | | | | | | |
| <i>General Service > 50 to 4999 kW</i> | 11,847 | 12,187 | 12,095 | 11,224 | 10,151 | 13,326 | 12,007 | 10,589 | 10,939 | 11,013 |
| <i>Street Lighting</i> | 959 | 972 | 949 | 512 | 420 | 420 | 420 | 420 | 420 | 421 |
| <i>Unmetered Scattered Load</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 12,806 | 13,159 | 13,044 | 11,736 | 10,571 | 13,746 | 12,427 | 11,009 | 11,359 | 11,434 |

CDM Adjusted Consumption (kW)

| Customer Class Name | Projected | |
|-------------------------------------------|------------------|--|
| | 2020 | |
| <i>Residential</i> | 0 | |
| <i>General Service < 50 kW</i> | 0 | |
| <i>General Service > 50 to 4999 kW</i> | 10,671 | |
| <i>Street Lighting</i> | 421 | |
| <i>Unmetered Scattered Load</i> | 0 | |
| TOTAL | 11,092 | |

2

3.3 ACCURACY OF LOAD FORECAST AND VARIANCE ANALYSIS

3.3.1 VARIANCE ANALYSIS OF LOAD FORECAST¹¹

Table 22 below shows the yearly change in consumption for the Residential class.

Table 22 - Residential Variance

| Year | Cust | % chg. | kWh | % chg. |
|------|-------|--------|------------|--------|
| 2009 | 979 | | 14,568,734 | |
| 2010 | 991 | 1% | 15,503,393 | 6% |
| 2011 | 1,044 | 5% | 14,112,097 | -9% |
| 2012 | 1,064 | 2% | 13,741,372 | -3% |
| 2013 | 1,069 | 1% | 14,121,205 | 3% |
| 2014 | 1,072 | 0% | 13,907,110 | -2% |
| 2015 | 1,075 | 0% | 13,022,914 | -6% |
| 2016 | 1,068 | -1% | 12,346,401 | -5% |
| 2017 | 1,083 | 1% | 12,078,410 | -2% |
| 2018 | 1,085 | 0% | 12,791,618 | 6% |
| 2019 | 1,087 | 0% | 12,775,525 | 0% |
| 2020 | 1,113 | 2% | 12,657,112 | -1% |

The number of residential customers has increased slowly but steadily since 2009. The consumption has also seen a slow decrease over the same period. Based on timing of the decrease, Hydro 2000 can assume that the effects of conservation measures have contributed to the reduction in overall consumption since 2010. The Load Forecast model uses a 11-year average to determine the projections and the projected consumption for 2020 factors in the reduction in CDM targets. Hydro 2000 notes that the relatively stagnant change in customer count is an indication that there is some stability in economic situation in the service area.

¹¹ MFR - For customer/connection counts - identification as to whether customer/connection count is shown in year-end or average format, year-over-year variances in changes of customer/connection counts with explanation of major changes, explanations of bridge and test year forecasts by rate class, for last rebasing variance analysis between last OEB-approved and actuals with explanations for material differences

As explained in Section 3.1.9 Determination of Customer Forecast, Hydro 2000 has used a simple 11-year (2009-2019) geometric mean function to determine the forecasted number of customers for 2020. The methodology behind the 2020 projections are explained in detailed at Section 3.3.1.

Table 23 below shows the yearly change in consumption for the GS<50 kW class.

Table 23 - GS <50 kW Variance

| <i>Year</i> | <i>Cust</i> | <i>% chg.</i> | <i>kWh</i> | <i>% chg.</i> |
|-------------|-------------|---------------|------------|---------------|
| 2009 | 141 | | 4,924,163 | |
| 2010 | 141 | 0% | 4,868,403 | -1% |
| 2011 | 143 | 1% | 4,617,455 | -5% |
| 2012 | 142 | -1% | 4,027,546 | -13% |
| 2013 | 141 | -1% | 4,342,696 | 8% |
| 2014 | 142 | 1% | 4,287,878 | -1% |
| 2015 | 142 | 0% | 4,333,237 | 1% |
| 2016 | 143 | 1% | 4,261,434 | -2% |
| 2017 | 142 | -1% | 3,971,545 | -7% |
| 2018 | 141 | -1% | 4,062,996 | 2% |
| 2019 | 141 | 0% | 3,995,372 | -2% |
| 2020 | 141 | 0% | 4,049,207 | 1% |

The number of customers in the GS<50 kW class have remained steady over the past ten years with a slight decrease per year. The projected consumption for 2020 factors is lower than any historical years due to the reduction attributed to CDM targets. The Load Forecast model uses a 11-year average to determine the projections.

As explained in Section 3.1.9 Determination of Customer Forecast, Hydro 2000 has used a simple 11-year (2009-2019) geometric mean function to determine the forecasted number of customers for 2020. The methodology behind the projections 2020 are explained in detailed at Section 3.3.1.

1 Table 27 below shows the yearly change in consumption for the GS>50kW class.

2 **Table 24 - GS>50 Variance**

| Year | Cust | % chg. | kWh | % chg. | kW | % chg. |
|-------------|-------------|---------------|------------|---------------|-----------|---------------|
| 2009 | 12 | | 4,746,135 | | 12,344 | |
| 2010 | 12 | 0% | 4,892,263 | 3% | 12,630 | 2% |
| 2011 | 11 | -7% | 4,597,548 | -6% | 11,789 | -7% |
| 2012 | 11 | -1% | 4,474,560 | -3% | 12,187 | 3% |
| 2013 | 11 | -1% | 4,601,708 | 3% | 12,095 | -1% |
| 2014 | 11 | -1% | 4,359,419 | -5% | 11,224 | -7% |
| 2015 | 11 | 5% | 4,194,222 | -4% | 10,151 | -10% |
| 2016 | 11 | -3% | 3,976,846 | -5% | 13,326 | 31% |
| 2017 | 12 | 8% | 4,195,330 | 5% | 12,007 | -10% |
| 2018 | 12 | 3% | 4,274,766 | 2% | 10,589 | -12% |
| 2019 | 13 | 7% | 4,084,117 | -4% | 10,939 | 3% |
| 2020 | 13 | 0% | 4,111,838 | 1% | 11,013 | 1% |

3
4 Similar to the GS<50kW, the number of customers in the GS>50 kW class have also remained
5 relatively steady over the past 10 years. The projected consumption for 2020 factors is lower
6 than any historical years due to the reduction attributed to CDM targets. The Load Forecast
7 model uses a 11-year average to determine the projections.

8 Hydro 2000 does not anticipate any new GS>50 customers in 2019 and 2020.

9 As explained in Section 3.1.9 Determination of Customer Forecast, Hydro 2000 has used a simple
10 11-year (2009-2019) geometric mean function to determine the forecasted number of
11 customers for 2020. The methodology behind the projections for 2020 are explained in detailed
12 at Section 3.3.1.

13
14 Table 25 -Streetlights Variance below shows the yearly change in consumption for the
15 Streetlight class.

16

Table 25 -Streetlights Variance

| Year | Cust | % chg. | kWh | % chg. | kW | % chg. |
|-------------|-------------|---------------|------------|---------------|-----------|---------------|
| 2009 | 368 | | 331,590 | | 972 | |
| 2010 | 368 | 0% | 334,038 | 1% | 972 | 0% |
| 2011 | 368 | 0% | 352,032 | 5% | 972 | 0% |
| 2012 | 368 | 0% | 348,332 | -1% | 972 | 0% |
| 2013 | 368 | 0% | 327,162 | -6% | 949 | -2% |
| 2014 | 369 | 0% | 179,624 | -45% | 512 | -46% |
| 2015 | 370 | 0% | 152,105 | -15% | 420 | -18% |
| 2016 | 370 | 0% | 152,560 | 0% | 420 | 0% |
| 2017 | 370 | 0% | 153,257 | 0% | 420 | 0% |
| 2018 | 370 | 0% | 153,342 | 0% | 420 | 0% |
| 2019 | 370 | 0% | 153,000 | 0% | 421 | 0% |
| 2020 | 370 | 0% | 153,000 | 0% | 421 | 0% |

Connection count and consumption for the Streetlight class has been consistent since 2008.

The Load Forecast model uses a 10-year (2009-2018) average to determine the projections.

As explained in Section 3.1.9 Determination of Customer Forecast, Hydro 2000 has used a simple 11-year (2008-2019) geometric mean function to determine the forecasted number of customers for 2020. The methodology behind the projections for 2020 are explained in detailed at Section 3.3.1.

1 Table 26 - USL Variance below shows the yearly change in consumption for the USL class.

2 **Table 26 - USL Variance**

| <i>Year</i> | <i>Cust</i> | <i>% chg.</i> | <i>kWh</i> | <i>% chg.</i> |
|--------------------|--------------------|----------------------|-------------------|----------------------|
| 2009 | 6 | | 18,804 | |
| 2010 | 6 | 0% | 18,778 | 0% |
| 2011 | 6 | 0% | 18,517 | -1% |
| 2012 | 6 | -8% | 18,188 | -2% |
| 2013 | 4 | -27% | 17,280 | -5% |
| 2014 | 4 | 0% | 17,280 | 0% |
| 2015 | 4 | 0% | 17,280 | 0% |
| 2016 | 4 | 0% | 17,280 | 0% |
| 2017 | 4 | 0% | 17,280 | 0% |
| 2018 | 4 | 0% | 17,280 | 0% |
| 2019 | 4 | -4% | 17,280 | 0% |
| 2020 | 4 | -4% | 17,280 | 0% |

3

4 Hydro 2000 does not anticipates any changes in USL connection for the 2020 Test year. The

5 Load Forecast model uses a 11-year average to determine the projections. The methodology

6 behind the projections for 2020 are explained in detailed at Section 3.3.1.

7 In summary, for customer counts Hydro 2000 expects slight decrease in weather sensitive

8 classes. Hydro 2000 projects no material changes in the GS>50, Streetlights, USL.

9

1 Table 27 – 2012 Board Approved VS **2020** below shows the difference between the 2012
2 Board Approved Load Forecast and the 2020 Load Forecast. Hydro 2000 notes that has little
3 control over its Board Approved Load Forecast as the OEB dictates the manner in which the
4 forecast is determined (i.e. using a multivariate regression analysis based on multi-year historical
5 values.) In other words, the Load Forecasting process is formulaic in nature and year over year
6 variances are outside of the utility's control. That said Hydro 2000 notes that all classes have
7 remained relatively unchanged since the utility's Board Approved [BA] Load Forecast.

8 The overall consumption decline can be explained by the decline in customer count and
9 changes in weather patterns and effects of energy efficiencies.

10

1

Table 27 – 2012 Board Approved VS 2020

| | | 2012 Board Approved | 2020 | Var |
|---------------------------------------------|-----------|------------------------|--------------|--------------|
| Residential | Fixed | \$12.87 | \$31.45 | \$18.58 |
| | Variable | \$0.0129 | \$0.0034 | -\$0.0095 |
| | | | | 0 |
| | Cust/Conn | 1,061 | 1,113 | 52 |
| | kWh | 14,578,597 | 12,367,886 | -2210711 |
| | Revenues | \$351,924.74 | \$461,726.19 | \$109,801.45 |
| | | | | 0% |
| | | | | 0 |
| | | | | |
| | | | | |
| General Service < 50 kW | Fixed | \$28.85 | \$24.14 | -\$4.71 |
| | Variable | \$0.0125 | \$0.0105 | -\$0.0020 |
| | | | | 0 |
| | Cust/Conn | 142 | 141 | -1 |
| | kWh | 4,672,050 | 3,861,286 | -810764 |
| | Revenues | \$107,561.03 | \$81,357.66 | -\$26,203.36 |
| | | | | 0% |
| | | | | 0 |
| | | | | |
| | | | | |
| General Service > 50 kW - 4999 kW | Fixed | \$120.73 | \$84.54 | -\$36.19 |
| | Variable | \$2.0893 | \$1.4590 | -\$0.6303 |
| | | | | 0 |
| | Cust/Conn | 12 | 13 | 1 |
| | kWh | 4,632,461 | 3,984,230 | -648231 |
| | kW | 11,847 | 10,671 | -1176 |
| | Revenues | \$25,052.80 | \$28,777.19 | \$3,724.40 |
| | | | | 0% |
| | | | | 0 |
| | | | | |
| Unmetered Scattered Load | Fixed | \$14.75 | \$5.65 | -\$9.10 |
| | Variable | \$0.0416 | \$0.0146 | -\$0.0270 |
| | | | | 0 |
| | Cust/Conn | 6 | 4 | -2 |
| | kWh | 18,329 | 17,280 | -1049 |
| | Revenues | \$1,824 | \$500 | -\$1,324.72 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Streetlighting | Fixed | \$1.16 | \$1.27 | \$0.11 |
| | Variable | \$6.8609 | \$7.4372 | \$0.5763 |
| | | | | 0 |
| | Cust/Conn | 368 | 370 | 2 |
| | kWh | 343,757 | 153,000 | -190757 |
| | kW | 959 | 421 | -538 |
| | Revenues | \$36,877.34 | \$8,795.02 | -\$28,082.31 |
| | | | | 0% |
| | | | | 0 |
| | | | | |
| Total | Cust/Conn | 1,589 | 1,641 | 52 |

| | | | |
|-----|------------|--------------|-------------|
| kWh | 24,245,194 | 20,383,683 | -3861511 |
| kW | 474,116 | 554,675 | 80559 |
| \$ | 61,930 | \$581,155.83 | \$57,915.45 |

1

2 Table 32 below, presents variances between actuals and 2012 Board Approved. As shown in the

3 table below, the trend in Residential customer count increased between the last Board Approved

4 and its 2020 forecast resulting in a gain of 49 customer . Most classes saw a moderate decrease

5 in consumption in 2020 as a result of CDM target reductions in 2020.

6 With respect to consumption, as explained in section 3.1.6, the assumption is that the effects of

7 energy efficient changes have contributed to the modest decline in consumption vs the increase

8 in customer count. The customer/connection count for all other classes has remained relatively

9 unchanged.

10

1

Table 28 - Yearly Variances from Last Board Approved

| | Year | 2012 Board Approved | BA to 2012 Actual Variance | 2012-2013 Variance | 2013-2014 Variance | 2014-2015 Variance | 2015-2016 Variance | 2016-2017 Variance | 2017-2018 Variance | 2018-2019 Variance | 2019-2020 Variance |
|------------------------------------|-----------|------------------------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Residential | Fixed | \$12.87 | \$0.00 | \$0.75 | \$1.06 | \$0.19 | \$3.44 | \$3.79 | \$0.00 | \$3.82 | \$5.53 |
| | Variable | \$0.0129 | \$0.0000 | \$0.0008 | \$0.0011 | \$0.0002 | -\$0.0030 | -\$0.0029 | \$0.0000 | -\$0.0029 | -\$0.0028 |
| | Cust/Conn | 1,061 | 3 | 6 | 3 | 3 | -8 | 15 | 2 | 2 | 26 |
| | kWh | 14,578,597 | -837225 | 379833 | -214095 | -884196 | -676513 | -267991 | 713208 | -16093 | -407639 |
| | Revenues | \$351,924.74 | -\$10,388.36 | \$26,682.35 | \$26,428.00 | -\$7,452.57 | -\$4,467.94 | \$14,332.61 | \$7,108.99 | \$13,140.91 | \$44,417.45 |
| GS < 50 kW | Fixed | \$28.85 | \$0.00 | -\$3.59 | -\$3.42 | \$0.28 | \$0.00 | \$0.35 | \$0.00 | \$0.30 | \$1.37 |
| | Variable | \$0.0125 | \$0.0000 | -\$0.0015 | -\$0.0015 | \$0.0001 | \$0.0000 | \$0.0002 | \$0.0000 | \$0.0001 | \$0.0006 |
| | Cust/Conn | 142 | 0 | -2 | 1 | 0 | 1 | -1 | -1 | 0 | 0 |
| | kWh | 4,672,050 | -644504 | 315150 | -54818 | 45359 | -71803 | -289889 | 91451 | -67624 | -134086 |
| | Revenues | \$107,561.03 | -\$7,969.75 | -\$9,233.26 | -\$12,527.94 | \$1,338.96 | -\$301.36 | -\$1,635.19 | \$604.11 | \$244.42 | \$3,276.64 |
| GS > 50 kW – 4999 kW | Fixed | \$120.73 | \$0.00 | -\$13.22 | -\$26.46 | \$1.05 | \$0.00 | \$1.31 | \$0.00 | \$1.13 | \$0.00 |
| | Variable | \$2.0893 | \$0.0000 | -\$0.2287 | -\$0.4579 | \$0.0182 | \$0.0000 | \$0.0227 | \$0.0000 | \$0.0195 | -\$0.0041 |
| | Cust/Conn | 12 | -1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| | kWh | 4,632,461 | -157901 | 127148 | -242289 | -165197 | -217376 | 218484 | 79436 | -190649 | -99887 |
| | kW | 11,847 | 340 | -92 | -871 | -1073 | 3175 | -1319 | -1418 | 350 | -268 |
| | Revenues | \$25,052.80 | \$684.37 | -\$2,988.54 | -\$6,819.56 | -\$1,312.98 | \$4,506.40 | -\$1,584.00 | -\$2,041.86 | \$13,695.90 | -\$415.32 |
| USL | Fixed | \$14.75 | \$0.00 | \$0.07 | \$0.21 | \$0.20 | \$0.00 | \$0.24 | \$0.00 | \$0.21 | -\$10.03 |
| | Variable | \$0.0416 | \$0.00 | \$0.0002 | \$0.0006 | \$0.0006 | \$0.0000 | \$0.0007 | \$0.0000 | \$0.0006 | -\$0.0297 |
| | Cust/Conn | 6 | 0 | -2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | kWh | 18,329 | -141 | -908 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Revenues | \$1,824 | -\$5.87 | -\$384.96 | \$20.45 | \$19.97 | \$0.00 | \$23.62 | \$0.00 | -\$12.71 | -\$985.22 |
| Streetlighting | Fixed | \$1.16 | \$0.00 | \$0.01 | \$0.02 | \$0.02 | \$0.00 | \$0.02 | \$0.00 | \$0.02 | \$0.02 |
| | Variable | \$6.8609 | \$0.0000 | \$0.0329 | \$0.0965 | \$0.0909 | \$0.0000 | \$0.1133 | \$0.0000 | \$0.0971 | \$0.1456 |
| | Cust/Conn | 368 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | kWh | 343,757 | 4575 | -21170 | -147538 | -27519 | 455 | 697 | 85 | -434 | 92 |
| | kW | 959 | 13 | -23 | -437 | -92 | 0 | 0 | 0 | 0 | 1 |
| | Revenues | \$36,877.34 | \$89.19 | \$18.71 | -\$2,488.11 | -\$82.50 | \$0.00 | \$550.64 | \$0.00 | -\$26,349.45 | \$179.21 |
| Total | Cust/Conn | 1,589 | 2 | 2 | 4 | 5 | -6 | 15 | 2 | 3 | 26 |
| | kWh | 24,245,194 | -1635196 | 800053 | -658740 | -1031553 | -965237 | -338699 | 884180 | -274800 | -641519 |
| | kW | 474,116 | -18011 | 16949 | 12613 | -7259 | -1594 | 11402 | 6295 | 13723 | 46442 |
| | \$ | \$523,240.39 | -\$17,590.42 | \$14,094.30 | \$4,612.84 | -\$7,489.12 | -\$262.90 | \$11,687.67 | \$5,671.24 | \$719.07 | \$46,472.76 |

2

1 **2012 Board Approved VS 2012 Actual**

2 The total distribution revenue in 2012 Actual was -\$17,590 lower than the 2012 Board Approved
3 the reason being that the regression analysis used in Cost of Service applications overestimate
4 the Load Forecast compared to actuals.

5 **2012 Actual VS 2013 Actual**

6 The total distribution revenue in 2013 was \$14,094 higher than the 2012 Actual. Hydro 2000's
7 rates came into effect in the Spring of 2012 therefore the full effects of the Cost of Service were
8 felt in 2013 as well as 2012. 2013 Was also subject to an IRM increase.

9 **2013 Actual VS 2014 Actual**

10 The total distribution revenue in 2014 was \$4,612 higher than the 2013 Actual therefore no
11 further explanation is required. The increase is due to the effects of the 2014 IRM.

12 **2014 Actual VS 2015 Actual**

13 The total distribution revenue in 2015 was \$-7489 less than the 2014 Actual therefore no further
14 explanation is required.

15 **2015 Actual VS 2016 Actual**

16 The total distribution revenue in 2016 was \$-262 less than the 2015 Actual therefore no further
17 explanation is required.

18 **2016 Actual VS 2017 Actual**

19 The total distribution revenue in 2017 was \$11,687 more than the 2016 Actual therefore no
20 explanation is required. The increase is due to the effects of the 2017 IRM.

21 **2017 Actual VS 2018 Actual**

22 The total distribution revenue in 2018 was a marginal \$5,671 more than the 2016 Actual
23 therefore no explanation is required. No IRM application was filed in 2017.

24 **2018 Actual VS 2019 Predicted**

25 The total distribution revenue in 2019 is projected to be \$719 greater than 2018. The increase is
26 marginal therefore no further explanation is required.

1 **2019 Predicted VS 2020**

2 The total distribution revenue in 2020 is \$46,472 more than the 2019. The majority of the
3 variance is attributed to the request for new rates to eliminate the revenue deficiency caused by
4 an increase in OM&A and investment in capital expenditures.

5

1

Table 29 – OEB Appendix 2-IA

| | Calendar Year | | Customers / Connections | | Consumption (kWh) ⁽³⁾ | | | Demand (kW or kVA) | | | Revenues | |
|------------------------|-------------------------------------------|--|-------------------------|--|----------------------------------|--------------------|--|--------------------|--------------------|--|--------------------|------------------------|
| | (for [Hist Year 3] Cost of Service) | | | | Weather- actual | Weather-normalized | | Weather- actual | Weather-normalized | | Weather- actual | Weather- normalized |
| Historical | | | | | | | | | | | | |
| Historical | | | | | | | | | | | | |
| Historical | | | | | | | | | | | | |
| Historical | | | | | | | | | | | | |
| Historical | | | | | | | | | | | | |
| Bridge Year (Forecast) | | | | | | | | | | | | |
| Test Year (Forecast) | | | | | | | | | | | | |

2

Due to its length when printed, Hydro 2000 has filed the OEB Appendix 2-IB at Appendix A of this Exhibit.¹²

¹² MFR - Completed Appendix 2-IB; the customer and load forecast for the test year must be entered on RRWF, Tab 10

Table 34 below presents the actual average use per customer, by customer class, and historical and adjusted forecast average use per customer generated using the load forecast. As can be seen from the results below, the predicted use per customer follows the trend created from its historical usage per customer.¹³

Table 30 - Average per customer use

Average per customer

| Year | Residential | GS<50 | GS>50 | | USL | | Street Lighting | |
|------|-------------|----------|----------|---------|----------|---------|-----------------|---------|
| | kWh/Cust | kWh/Cust | kWh/Cust | kW/Cust | kWh/Cust | kW/Cust | | kW/Cust |
| 2009 | 14,888 | 34,923 | 395,511 | 1,029 | 3,134 | 0 | 901 | 3 |
| 2010 | 15,644 | 34,507 | 406,278 | 1,049 | 3,130 | 0 | 908 | 3 |
| 2011 | 13,514 | 32,271 | 411,721 | 1,056 | 3,086 | 0 | 957 | 3 |
| 2012 | 12,919 | 28,313 | 406,778 | 1,108 | 3,307 | 0 | 947 | 3 |
| 2013 | 13,207 | 30,909 | 423,795 | 1,114 | 4,320 | 0 | 889 | 3 |
| 2014 | 12,975 | 30,294 | 404,586 | 1,042 | 4,320 | 0 | 487 | 1 |
| 2015 | 12,113 | 30,615 | 370,918 | 898 | 4,320 | 0 | 411 | 1 |
| 2016 | 11,403 | 29,800 | 361,531 | 1,211 | 4,320 | 0 | 412 | 1 |
| 2017 | 11,131 | 27,952 | 354,535 | 1,015 | 4,320 | 0 | 414 | 1 |
| 2018 | 11,768 | 28,816 | 351,351 | 870 | 4,320 | 0 | 414 | 1 |
| 2019 | 11,753 | 28,336 | 314,163 | 841 | 4,519 | 0 | 413 | 1 |
| 2020 | 11,511 | 28,718 | 315,811 | 846 | 4,727 | 0 | 413 | 1 |

The next section details a variance analysis of the utility's past and projected revenues.

¹³ MFR - With respect to average consumption, for each rate class, distributors are to provide weather-actual and weather-normalized average annual consumption or demand per customer as applicable for last OEB approved and historical, weather normalized average annual consumption or demand per customer for the bridge and test years, explanation of the net change in average consumption from last OEB-approved and actuals from historical, bridge and test years based on year-over-year variances and any apparent trends in data

3.3.2 VARIANCE ANALYSIS OF DISTRIBUTION REVENUES¹⁴

The tables below provide details of the Final Customer and Volume Load Forecast for each of the years. This summary of the billing determinants by rate class will be used to develop Hydro 2000's proposed rates.

¹⁴ MFR - For revenues - calculation of bridge year forecast of revenues at existing rates, calculation of test year forecasted revenues at existing and proposed rates, year-over-year variances in revenues comparing historical actuals and bridge and test year forecasts

1

Table 31 - Revenues at proposed rates

| <u>2020 Rates at 2020 Load</u> | | | | | | | | |
|-----------------------------------------------|-----------------------------------|--------------------------------|-----------------------------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|
| Revenue from Proposed Variable Charges | | | | | | | | |
| Customer Class Name | Variable Distribution Rate | per | Test Year Volume | Gross Variable Revenue | Transform. Allowance Rate | Transform. Allowance kW's | Transform. Allowance \$'s | Net Variable Revenue |
| <i>Residential</i> | \$0.0034 | kWh | 12,367,886 | \$41,850 | | | \$0.00 | \$41,850 |
| <i>General Service < 50 kW</i> | \$0.0105 | kWh | 3,861,286 | \$40,520 | | | \$0.00 | \$40,520 |
| <i>General Service > 50 to 4999 kW</i> | \$1.4590 | kW | 10,671 | \$15,569 | 0.60 | | \$0.00 | \$15,569 |
| <i>Street Lighting</i> | \$7.4372 | kW | 421 | \$3,127 | | | \$0.00 | \$3,127 |
| <i>Unmetered Scattered Load</i> | \$0.0146 | kWh | 17,280 | \$252 | | | \$0.00 | \$252 |
| Total Variable Revenue | | | 16,257,544 | \$101,318 | 0.6 | 0 | \$0.00 | \$101,318 |
| <u>2020 Rates at 2020 Load</u> | | | | | | | | |
| Revenue from Proposed Fixed Charges | | | | | | | | |
| Customer Class Name | Fixed Rate | Customers (Connections) | Fixed Charge Revenue | Variable Revenue | TOTAL | % Fixed Revenue | % Variable Revenue | % Total Revenue |
| <i>Residential</i> | \$31.45 | 1,113 | \$419,876.37 | \$41,850 | \$461,727 | 90.94% | 9.06% | 79.45% |
| <i>General Service < 50 kW</i> | \$24.14 | 141 | \$40,837.88 | \$40,520 | \$81,358 | 50.20% | 49.80% | 14.00% |
| <i>General Service > 50 to 4999 kW</i> | \$84.54 | 13 | \$13,208.53 | \$15,569 | \$28,777 | 45.90% | 54.10% | 4.95% |
| <i>Street Lighting</i> | \$1.27 | 370 | \$5,667.70 | \$3,127 | \$8,795 | 64.44% | 35.56% | 1.51% |
| <i>Unmetered Scattered Load</i> | \$5.65 | 4 | \$271.13 | \$252 | \$523 | 51.83% | 48.17% | 0.09% |
| Total Fixed Revenue | | 1,641 | \$479,861.62 | \$101,318 | \$581,180 | | | |

2

3.4 OTHER REVENUES

3.4.1 OVERVIEW OF OTHER REVENUE

Other Distribution Revenues are revenues that are distribution related but are sourced from means other than distribution rates. For this reason, other revenues are deducted from Hydro 2000's proposed revenue requirement. Further details on the derivation of the Revenue Requirement is presented in Exhibit 6.

Other Distribution Revenues includes items such as:

- Specific Service Charges
- Late Payment Charges
- Other Distribution Revenues
- Other Income and Expenses

Hydro 2000 is not proposing to the MicroFit Service Charges.

OEB APPENDIX 2-H OTHER OPERATING REVENUES

A detailed breakdown by USoA account is shown in Table 37 - OEB Appendix 2-H presented on the next page. Year over year variance analysis follow at Section 3.4.2 - Other Revenue Variance Analysis.

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Table 32 – OEB Appendix 2-H¹⁵

| | Reporting Basis | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP | CGAAP |
|------|--------------------------------------------------------|----------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 2012 | 2012 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| | USoA Description | Board Approved | | | | | | | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$4,032 | -\$8,518 | -\$8,518 | -\$8,115 | -\$8,202 | \$0 | -\$15,137 | -\$7,243 | -\$19,683 | -\$5,307 | -\$7,596 |
| 4225 | 4225-Late Payment Charges | -\$6,120 | -\$5,973 | -\$5,973 | -\$6,789 | -\$8,542 | -\$9,103 | -\$10,385 | -\$10,604 | -\$7,953 | -\$5,453 | -\$6,337 |
| 4082 | 4082-Retail Services Revenues | -\$3,663 | -\$2,029 | -\$2,029 | -\$2,141 | -\$2,184 | -\$2,141 | -\$2,080 | -\$5,761 | -\$5,758 | -\$3,563 | -\$3,119 |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$75 | -\$1 | -\$1 | -\$2 | -\$2 | -\$3 | -\$2 | \$0 | \$0 | -\$1 | -\$1 |
| 4086 | 4086-SSS Administration Revenue | \$0 | \$0 | \$0 | -\$3,563 | -\$3,607 | -\$3,762 | -\$3,631 | \$0 | \$0 | -\$3,681 | -\$3,766 |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4210 | 4210-Rent from Electric Property | -\$6,413 | -\$2,152 | -\$2,152 | -\$6,574 | -\$7,605 | -\$6,374 | -\$9,584 | -\$9,922 | -\$9,145 | -\$9,700 | -\$6,702 |
| 4220 | 4220-Other Electric Revenues | -\$3,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | -\$19,365 | \$0 |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | \$19,154 | \$3,130 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | \$0 | \$0 | -\$8,283 | -\$2,400 | \$0 | \$0 | \$0 | \$0 |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,750 | \$0 | \$0 | \$0 | \$0 |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | -\$3,575 | -\$3,575 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,676 | \$6,442 | \$1,779 | \$5,517 | \$5,000 | \$0 |
| 4375 | 4375-Revenues from Non-Utility Operations | \$0 | \$0 | \$0 | \$0 | \$0 | -\$79,954 | -\$41,394 | -\$19,745 | -\$29,687 | -\$28,136 | -\$19,090 |
| 4380 | 4380-Expenses of Non-Utility Operations | \$0 | \$0 | \$0 | \$7,554 | \$0 | \$81,849 | \$31,456 | \$18,532 | \$29,845 | \$28,136 | \$19,090 |
| 4385 | 4385-Non-Utility Rental Income | \$0 | -\$78,875 | -\$78,875 | \$584 | -\$23,668 | \$0 | -\$6,539 | -\$5,874 | \$1,461 | \$0 | \$0 |
| 4390 | 4390-Miscellaneous Non-Operating Income | \$0 | -\$960 | -\$960 | -\$992 | -\$257 | -\$1,268 | -\$2,135 | \$0 | -\$598 | -\$1,857 | -\$243 |
| 4405 | 4405-Interest and Dividend Income | \$0 | -\$6,924 | -\$6,924 | -\$20,618 | -\$7,765 | -\$7,036 | -\$6,584 | -\$7,993 | -\$13,059 | -\$567 | -\$592 |
| | Total | -\$23,303 | -\$109,009 | -\$109,009 | -\$21,502 | -\$58,702 | -\$31,398 | -\$31,398 | -\$31,398 | -\$31,398 | -\$31,398 | -\$28,356 |
| | Specific Service Charges | -\$4,032 | -\$8,518 | -\$8,518 | -\$8,115 | -\$8,202 | \$0 | -\$15,137 | -\$7,243 | -\$19,683 | -\$5,307 | -\$7,596 |
| | Late Payment Charges | -\$6,120 | -\$5,973 | -\$5,973 | -\$6,789 | -\$8,542 | -\$9,103 | -\$10,385 | -\$10,604 | -\$7,953 | -\$5,453 | -\$6,337 |
| | Other Distribution/Operating Revenues | -\$13,151 | -\$4,183 | -\$4,183 | -\$12,281 | -\$13,397 | -\$12,279 | -\$15,297 | -\$15,683 | -\$14,903 | -\$36,310 | -\$13,588 |
| | Other Income or Deductions | \$0 | -\$90,335 | -\$90,335 | \$5,683 | -\$28,560 | -\$10,016 | -\$18,404 | -\$13,302 | -\$6,521 | \$2,577 | -\$835 |
| | Total | -\$23,303 | -\$109,009 | -\$109,009 | -\$21,502 | -\$58,702 | -\$31,398 | -\$59,223 | -\$46,832 | -\$59,223 | -\$44,493 | -\$28,356 |

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¹⁵ MFR - Completed Appendix 2-H

3.4.2 OTHER REVENUE VARIANCE ANALYSIS¹⁶

Table 38 to 45 below presents year over year variances of other operating revenues:

Table 33 - Variance Analysis of Other Operating Revenues

2012 Board Approved – 2012 Actuals

| | | 2012 | 2012 | \$ | % |
|-------|----------------------------------------------------------------|----------------|------------|-----------|---------|
| | USoA Description | Board Approved | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$4,032 | -\$8,518 | -\$4,486 | 111.27% |
| 4225 | 4225-Late Payment Charges | -\$6,120 | -\$5,973 | \$147 | 2.40% |
| 4082 | 4082-Retail Services Revenues | -\$3,663 | -\$2,029 | \$1,634 | 44.60% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$75 | -\$1 | \$74 | 98.33% |
| 4086 | 4086-SSS Administration Revenue | \$0 | \$0 | \$0 | |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$6,413 | -\$2,152 | \$4,261 | 66.44% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | -\$3,000 | \$0 | \$3,000 | 100.00% |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | -\$3,575 | -\$3,575 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | \$0 | \$0 | \$0 | |
| 4380 | 4380-Expenses of Non-Utility Operations | \$0 | \$0 | \$0 | |
| 4385 | 4385-Non-Utility Rental Income | \$0 | -\$78,875 | -\$78,875 | |
| 4390 | 4390-Miscellaneous Non-Operating Income | \$0 | -\$960 | -\$960 | |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | \$0 | -\$6,924 | -\$6,924 | |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$23,303 | -\$109,009 | -\$85,706 | \$4 |

¹⁶ MFR - Variance analysis - year over year, historical, bridge and test

| | | | | |
|----------------------------------------------|-----------|------------|-----------|---------|
| Specific Service Charges | -\$4,032 | -\$8,518 | -\$4,486 | 111.27% |
| Late Payment Charges | -\$6,120 | -\$5,973 | \$147 | 2.40% |
| Other Distribution/Operating Revenues | -\$13,151 | -\$4,183 | \$8,968 | 68.19% |
| Other Income or Deductions | \$0 | -\$90,335 | -\$90,335 | |
| Total | -\$23,303 | -\$109,009 | -\$85,706 | 367.79% |

2012 Actual over 2012 Board Approved - The Other Revenues variance reflects an increase of \$85,706. This decrease was for the most part due to the following:

Account 4235 includes 2011 Tariff Rates allocation for Rate Rider for Recovery of Late Payment Penalty Litigation Costs until April 30, 2012 @ \$0.20 per customer for a total of \$2,255.29; Disconnection charge \$1,085; Collection Charge \$999; NSF Charges \$864; Set-up Fee (new account) \$3,315.

In account 4210, the revenue from Eastlink was recorded twice in 2011 for approximately \$4K. The average of 2011 (\$10K) and 2012 (\$2K) amounts to approximately \$6K which is in line with the 2012 Board Approved.

Account 4385 shows a variance of -\$78,875. To the best of the knowledge of Hydro 2000's current management the revenue of approximately \$78,000 recorded in account 4385 in 2012 was the result of the disposition of rate rider revenue collected sometime during or prior to 2010. The details underpinning the apparent rider revenue are unknown to Hydro 2000's current management and will require further research into the history of Hydro 2000's approved rate riders in and before 2010, including, possibly, the assistance of Board Staff.

Table 34 - Variance Analysis of Other Operating Revenues

| | | 2012 Actual-2013 Actual | | | |
|------|--------------------------------------------------------|-------------------------|----------|----------|---------|
| | | 2012 | 2013 | \$ | % |
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$8,518 | -\$8,115 | \$404 | 4.74% |
| 4225 | 4225-Late Payment Charges | -\$5,973 | -\$6,789 | -\$816 | 13.66% |
| 4082 | 4082-Retail Services Revenues | -\$2,029 | -\$2,141 | -\$112 | 5.52% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$1 | -\$2 | -\$1 | 60.00% |
| 4086 | 4086-SSS Administration Revenue | \$0 | -\$3,563 | -\$3,563 | |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$2,152 | -\$6,574 | -\$4,422 | 205.45% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | \$0 | \$0 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$19,154 | \$19,154 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |

| | | | | | |
|-------|----------------------------------------------------------------|------------|-----------|-----------|---------|
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | -\$3,575 | \$0 | \$3,575 | 100.00% |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | \$0 | \$0 | \$0 | |
| 4380 | 4380-Expenses of Non-Utility Operations | \$0 | \$7,554 | \$7,554 | |
| 4385 | 4385-Non-Utility Rental Income | -\$78,875 | \$584 | \$79,459 | 100.74% |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$960 | -\$992 | -\$31 | 3.27% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$6,924 | -\$20,618 | -\$13,694 | 197.78% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$109,009 | -\$21,502 | \$87,507 | 80% |
| | Specific Service Charges | -\$8,518 | -\$8,115 | \$404 | 4.74% |
| | Late Payment Charges | -\$5,973 | -\$6,789 | -\$816 | 13.66% |
| | Other Distribution/Operating Revenues | -\$4,183 | -\$12,281 | -\$8,098 | 193.60% |
| | Other Income or Deductions | -\$90,335 | \$5,683 | \$96,018 | 106.29% |
| | Total | -\$109,009 | -\$21,502 | \$87,507 | 80.28% |

2013 Actual over 2012 Actual - The Other Revenues variance reflects a decrease of \$87,505. This decrease was for the most part due to the following:

The balance in 4210 is normally \$6K. In 2011, the balance was \$10K and in 2012 \$2K. The difference of \$4K was recorded in 2011 instead of 2012.

The balance of \$19,154 in account 4305 is the difference between the old and the new methods of amortization on tangible capital assets. The credit went into account 1576.

The amount in account 4380 is the expenses for a solar panel project which was considered. The project however never materialized.

The difference in account 4405 is due to carrying charges on variances. Some carrying charges go to account 4405 and some to account 6035 depending on whether it was a debit or credit. The balance also varies depending the balance of the variances.

Table 35 - Variance Analysis of Other Operating Revenues

2013 Actual-2014 Actual

| | | 2013 | 2014 | \$ | % |
|-------|----------------------------------------------------------------|-----------|-----------|-----------|----------|
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$8,115 | -\$8,202 | -\$88 | 1.08% |
| 4225 | 4225-Late Payment Charges | -\$6,789 | -\$8,542 | -\$1,753 | 25.82% |
| 4082 | 4082-Retail Services Revenues | -\$2,141 | -\$2,184 | -\$43 | 1.98% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$2 | -\$2 | \$0 | 0.00% |
| 4086 | 4086-SSS Administration Revenue | -\$3,563 | -\$3,607 | -\$44 | 1.23% |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$6,574 | -\$7,605 | -\$1,030 | 15.67% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | \$0 | \$0 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$19,154 | \$3,130 | -\$16,024 | 83.66% |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | \$0 | \$0 | \$0 | |
| 4380 | 4380-Expenses of Non-Utility Operations | \$7,554 | \$0 | -\$7,554 | 100.00% |
| 4385 | 4385-Non-Utility Rental Income | \$584 | -\$23,668 | -\$24,252 | 4150.13% |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$992 | -\$257 | \$735 | 74.12% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$20,618 | -\$7,765 | \$12,852 | 62.34% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$21,502 | -\$58,702 | -\$37,200 | 173% |
| | Specific Service Charges | -\$8,115 | -\$8,202 | -\$88 | 1.08% |
| | Late Payment Charges | -\$6,789 | -\$8,542 | -\$1,753 | 25.82% |
| | Other Distribution/Operating Revenues | -\$12,281 | -\$13,397 | -\$1,116 | 9.09% |
| | Other Income or Deductions | \$5,683 | -\$28,560 | -\$34,243 | 602.56% |
| | Total | -\$21,502 | -\$58,702 | -\$37,200 | 173.01% |

2014 Actual over 2013 Actual - The Other Revenues variance reflects an increase of \$37,200. This The increase in for the most part due to the following.

The amounts in account 4305 is the difference between the old and new method of amortization. The difference was less in 2014 because some items were fully amortized.

The amount in account 4385 is related to revenues related to Direct Lighting.

The difference in account 4405 is due to carrying charges on variances. Some carrying charges go to account 4405 and some to account 6035 depending on whether it was a debit or credit. The balance also varies depending the balance of the variances.

Table 36 - Variance Analysis of Other Operating Revenues

| 2014 Actual-2015 Actual | | 2014 | 2015 | \$ | % |
|-------------------------|----------------------------------------------------------------|-----------|-----------|-----------|---------|
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$8,202 | \$0 | \$8,202 | 100.00% |
| 4225 | 4225-Late Payment Charges | -\$8,542 | -\$9,103 | -\$561 | 6.57% |
| 4082 | 4082-Retail Services Revenues | -\$2,184 | -\$2,141 | \$43 | 1.97% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$2 | -\$3 | -\$1 | 37.50% |
| 4086 | 4086-SSS Administration Revenue | -\$3,607 | -\$3,762 | -\$155 | 4.29% |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$7,605 | -\$6,374 | \$1,230 | 16.18% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | \$0 | \$0 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$3,130 | \$0 | -\$3,130 | 100.00% |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | -\$8,283 | -\$8,283 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$0 | \$4,676 | \$4,676 | |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | \$0 | -\$79,954 | -\$79,954 | |
| 4380 | 4380-Expenses of Non-Utility Operations | \$0 | \$81,849 | \$81,849 | |
| 4385 | 4385-Non-Utility Rental Income | -\$23,668 | \$0 | \$23,668 | 100.00% |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$257 | -\$1,268 | -\$1,011 | 393.81% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$7,765 | -\$7,036 | \$730 | 9.40% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$58,702 | -\$31,398 | \$27,303 | 47% |

| | | | | |
|----------------------------------------------|-----------|-----------|----------|---------|
| Specific Service Charges | -\$8,202 | \$0 | \$8,202 | 100.00% |
| Late Payment Charges | -\$8,542 | -\$9,103 | -\$561 | 6.57% |
| Other Distribution/Operating Revenues | -\$13,397 | -\$12,279 | \$1,118 | 8.34% |
| Other Income or Deductions | -\$28,560 | -\$10,016 | \$18,544 | 64.93% |
| Total | -\$58,702 | -\$31,398 | \$27,303 | 46.51% |

2015 Actual over 2014 Actual - The Other Revenues variance reflects a decrease of \$27,304. This The decrease in for the most part due to the following:

The balance of \$8,283 in 2015 should be in account 4235, not 4325.

The balances are similar. The amount in accounts 4375 and 4380 are revenues and expenses related to CDM programs. The net is an amount of \$2K. Accounts 4375 and 4380 are related to CDM programs. Amounts varies from year to year depending on various factors such as government policy and customer participation.

The amount in account 4385 was only in 2014 (revenue from Direct Lighting). There were no amounts allocated to Direct Lighting in 2015. This amount should have been recorded in account 4375.

Table 37 - Variance Analysis of Other Operating Revenues

2015 Actual-2016 Actual

| | | 2015 | 2016 | \$ | % |
|-------------|----------------------------------------------------------|-------------|-------------|-----------|----------|
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | \$0 | -\$15,137 | -\$15,137 | |
| 4225 | 4225-Late Payment Charges | -\$9,103 | -\$10,385 | -\$1,282 | 14.08% |
| 4082 | 4082-Retail Services Revenues | -\$2,141 | -\$2,080 | \$61 | 2.84% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$3 | -\$2 | \$1 | 45.45% |
| 4086 | 4086-SSS Administration Revenue | -\$3,762 | -\$3,631 | \$131 | 3.47% |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$6,374 | -\$9,584 | -\$3,210 | 50.36% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | \$0 | \$0 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | -\$8,283 | -\$2,400 | \$5,883 | 71.02% |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$2,750 | \$2,750 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |

| | | | | | |
|-------|----------------------------------------------------------------|-----------|-----------|-----------|--------|
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$4,676 | \$6,442 | \$1,766 | 37.77% |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | -\$79,954 | -\$41,394 | \$38,560 | 48.23% |
| 4380 | 4380-Expenses of Non-Utility Operations | \$81,849 | \$31,456 | -\$50,393 | 61.57% |
| 4385 | 4385-Non-Utility Rental Income | \$0 | -\$6,539 | -\$6,539 | |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$1,268 | -\$2,135 | -\$868 | 68.45% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$7,036 | -\$6,584 | \$452 | 6.42% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$31,398 | -\$31,398 | \$0 | 0% |
| | Specific Service Charges | \$0 | -\$15,137 | -\$15,137 | |
| | Late Payment Charges | -\$9,103 | -\$10,385 | -\$1,282 | 14.08% |
| | Other Distribution/Operating Revenues | -\$12,279 | -\$15,297 | -\$3,017 | 24.57% |
| | Other Income or Deductions | -\$10,016 | -\$18,404 | -\$8,389 | 83.76% |
| | Total | -\$31,398 | -\$59,223 | -\$27,824 | 88.62% |

2016 Actual over 2015 Actual - The Other Revenues variance reflects an increase of \$27,824. This increase was for the most part due to the following:

The balance of \$8,283 in account 4325 in 2015 should be in account 4235. The balance for 4235 in 2016 is \$9,434.

Accounts 4375 and 4380 are related to CDM programs. Amounts varies from year to year depending on various factors such as government policy and customer participation.

Table 38 - Variance Analysis of Other Operating Revenues

| 2016 Actual-2017 Actual | | 2016 | 2017 | \$ | % |
|-------------------------|--------------------------------------------------|-----------|-----------|----------|---------|
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$15,137 | -\$7,243 | \$7,894 | 52.15% |
| 4225 | 4225-Late Payment Charges | -\$10,385 | -\$10,604 | -\$219 | 2.11% |
| 4082 | 4082-Retail Services Revenues | -\$2,080 | -\$5,761 | -\$3,681 | 176.97% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$2 | \$0 | \$2 | 100.00% |
| 4086 | 4086-SSS Administration Revenue | -\$3,631 | \$0 | \$3,631 | 100.00% |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |

| | | | | | |
|-------|----------------------------------------------------------------|-----------|-----------|-----------|---------|
| 4210 | 4210-Rent from Electric Property | -\$9,584 | -\$9,922 | -\$338 | 3.53% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | \$0 | \$0 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | -\$2,400 | \$0 | \$2,400 | 100.00% |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$2,750 | \$0 | -\$2,750 | 100.00% |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$6,442 | \$1,779 | -\$4,663 | 72.39% |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | -\$41,394 | -\$19,745 | \$21,649 | 52.30% |
| 4380 | 4380-Expenses of Non-Utility Operations | \$31,456 | \$18,532 | -\$12,924 | 41.09% |
| 4385 | 4385-Non-Utility Rental Income | -\$6,539 | -\$5,874 | \$664 | 10.16% |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$2,135 | \$0 | \$2,135 | 100.00% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$6,584 | -\$7,993 | -\$1,409 | 21.40% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$59,223 | -\$31,398 | \$27,824 | 47% |
| | Specific Service Charges | -\$15,137 | -\$7,243 | \$7,894 | 52.15% |
| | Late Payment Charges | -\$10,385 | -\$10,604 | -\$219 | 2.11% |
| | Other Distribution/Operating Revenues | -\$15,297 | -\$15,683 | -\$386 | 2.53% |
| | Other Income or Deductions | -\$18,404 | -\$13,302 | \$5,102 | 27.72% |
| | Total | -\$59,223 | -\$46,832 | \$12,391 | 20.92% |

2017 Actual over 2016 Actual - The Other Revenues variance reflects a decrease of \$12,391. This decrease was for the most part due to the following:

The variance in 2019 of \$19,365 in Account 4220 with respect to Electric Revenues relates to the final reconciliation between HONI and Hydro 2000 concerning the elimination of load transfer agreements between the two companies in 2016, as documented in EB-2016-0194. Because, as part of the transfer of customers between companies, Hydro 2000 ended up with net additional customers, there was revenue collected from newly transferred Hydro 2000 customers in 2016

by HONI that was ultimately payable to Hydro 2000. The settlement of that revenue in the amount of \$19,365 was finalized in 2019.

Table 39 - Variance Analysis of Other Operating Revenues

| 2017 Actual-2018 Actual | | 2017 | 2018 | \$ | % |
|-------------------------|----------------------------------------------------------------|-----------|-----------|-----------|---------|
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$7,243 | -\$19,683 | -\$12,440 | 171.75% |
| 4225 | 4225-Late Payment Charges | -\$10,604 | -\$7,953 | \$2,651 | 25.00% |
| 4082 | 4082-Retail Services Revenues | -\$5,761 | -\$5,758 | \$3 | 0.05% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | \$0 | \$0 | \$0 | |
| 4086 | 4086-SSS Administration Revenue | \$0 | \$0 | \$0 | |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$9,922 | -\$9,145 | \$777 | 7.83% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | \$0 | \$0 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$1,779 | \$5,517 | \$3,738 | 210.17% |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | -\$19,745 | -\$29,687 | -\$9,943 | 50.36% |
| 4380 | 4380-Expenses of Non-Utility Operations | \$18,532 | \$29,845 | \$11,313 | 61.05% |
| 4385 | 4385-Non-Utility Rental Income | -\$5,874 | \$1,461 | \$7,335 | 124.87% |
| 4390 | 4390-Miscellaneous Non-Operating Income | \$0 | -\$598 | -\$598 | |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$7,993 | -\$13,059 | -\$5,066 | 63.38% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$46,832 | -\$31,398 | \$15,434 | 33% |
| | Specific Service Charges | -\$7,243 | -\$19,683 | -\$12,440 | 171.75% |
| | Late Payment Charges | -\$10,604 | -\$7,953 | \$2,651 | 25.00% |
| | Other Distribution/Operating Revenues | -\$15,683 | -\$14,903 | \$780 | 4.97% |
| | Other Income or Deductions | -\$13,302 | -\$6,521 | \$6,780 | 50.97% |
| | Total | -\$46,832 | -\$59,223 | -\$2,229 | 26.46% |

2018 Actual over 2017 Actual - The Other Revenues variance reflects an increase of \$2,229. The variance is marginal and does not require any variance explanations.

Table 40 - Variance Analysis of Other Operating Revenues

| 2018 Actual-2019 Actual | | 2018 | 2019 | \$ | % |
|-------------------------|----------------------------------------------------------------|-----------|-----------|-----------|---------|
| USoA Description | | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$19,683 | -\$5,307 | \$14,377 | 73.04% |
| 4225 | 4225-Late Payment Charges | -\$7,953 | -\$5,453 | \$2,500 | 31.43% |
| 4082 | 4082-Retail Services Revenues | -\$5,758 | -\$3,563 | \$2,195 | 38.12% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | \$0 | -\$1 | -\$1 | |
| 4086 | 4086-SSS Administration Revenue | \$0 | -\$3,681 | -\$3,681 | |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$9,145 | -\$9,700 | -\$555 | 6.07% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | \$0 | -\$19,365 | -\$19,365 | |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$5,517 | \$5,000 | -\$517 | 9.37% |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | -\$29,687 | -\$28,136 | \$1,552 | 5.23% |
| 4380 | 4380-Expenses of Non-Utility Operations | \$29,845 | \$28,136 | -\$1,709 | 5.73% |
| 4385 | 4385-Non-Utility Rental Income | \$1,461 | \$0 | -\$1,461 | 100.00% |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$598 | -\$1,857 | -\$1,259 | 210.74% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$13,059 | -\$567 | \$12,493 | 95.66% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$49,060 | -\$31,398 | \$17,662 | 36% |
| | | | | | |
| | Specific Service Charges | -\$19,683 | -\$5,307 | \$14,377 | 73.04% |
| | Late Payment Charges | -\$7,953 | -\$5,453 | \$2,500 | 31.43% |
| | Other Distribution/Operating Revenues | -\$14,903 | -\$36,310 | -\$21,407 | 143.64% |
| | Other Income or Deductions | -\$6,521 | \$2,577 | \$9,098 | 139.51% |
| | Total | -\$49,060 | -\$44,493 | \$4,568 | 9.31% |

2019 Actual over 2018 Actual - The Other Revenues variance reflects a decrease of \$4,568. The variance is marginal and does not require any variance explanations.

Table 41 - Variance Analysis of Other Operating Revenues

| | | 2019 Actual-2020 Actual | | | |
|-------|----------------------------------------------------------------|-------------------------|-----------|----------|---------|
| | | 2019 | 2020 | \$ | % |
| | USoA Description | | | | |
| 4235 | 4235-Miscellaneous Service Revenues | -\$5,307 | -\$7,596 | -\$2,289 | 43.14% |
| 4225 | 4225-Late Payment Charges | -\$5,453 | -\$6,337 | -\$884 | 16.21% |
| 4082 | 4082-Retail Services Revenues | -\$3,563 | -\$3,119 | \$444 | 12.47% |
| 4084 | 4084-Service Transaction Requests (STR) Revenues | -\$1 | -\$1 | \$0 | 0.00% |
| 4086 | 4086-SSS Administration Revenue | -\$3,681 | -\$3,766 | -\$85 | 2.31% |
| 4205 | 4205-Interdepartmental Rents | \$0 | \$0 | \$0 | |
| 4210 | 4210-Rent from Electric Property | -\$9,700 | -\$6,702 | \$2,998 | 30.91% |
| 4215 | 4215-Other Utility Operating Income | \$0 | \$0 | \$0 | |
| 4220 | 4220-Other Electric Revenues | -\$19,365 | \$0 | \$19,365 | 100.00% |
| 4240 | 4240-Provision for Rate Refunds | \$0 | \$0 | \$0 | |
| 4245 | 4245-Government Assistance Directly Credited to Income | \$0 | \$0 | \$0 | |
| 4305 | 4305-Regulatory Debits | \$0 | \$0 | \$0 | |
| 4310 | 4310-Regulatory Credits | \$0 | \$0 | \$0 | |
| 4315 | 4315-Revenues from Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4320 | 4320-Expenses of Electric Plant Leased to Others | \$0 | \$0 | \$0 | |
| 4324 | 4324-Special Purpose Charge Recovery | \$0 | \$0 | \$0 | |
| 4325 | 4325-Revenues from Merchandise Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4330 | 4330-Costs and Expenses of Merchandising Jobbing, Etc. | \$0 | \$0 | \$0 | |
| 4335 | 4335-Profits and Losses from Financial Instrument Hedges | \$0 | \$0 | \$0 | |
| 4340 | 4340-Profits and Losses from Financial Instrument Investments | \$0 | \$0 | \$0 | |
| 4345 | 4345-Gains from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4350 | 4350-Losses from Disposition of Future Use Utility Plant | \$0 | \$0 | \$0 | |
| 4355 | 4355-Gain on Disposition of Utility and Other Property | \$0 | \$0 | \$0 | |
| 4360 | 4360-Loss on Disposition of Utility and Other Property | \$5,000 | \$0 | -\$5,000 | 100.00% |
| 4365 | 4365-Gains from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4370 | 4370-Losses from Disposition of Allowances for Emission | \$0 | \$0 | \$0 | |
| 4375 | 4375-Revenues from Non-Utility Operations | -\$28,136 | -\$19,090 | \$9,046 | 32.15% |
| 4380 | 4380-Expenses of Non-Utility Operations | \$28,136 | \$19,090 | -\$9,046 | 32.15% |
| 4385 | 4385-Non-Utility Rental Income | \$0 | \$0 | \$0 | |
| 4390 | 4390-Miscellaneous Non-Operating Income | -\$1,857 | -\$243 | \$1,614 | 86.91% |
| 4395 | 4395-Rate-Payer Benefit Including Interest | \$0 | \$0 | \$0 | |
| 4398 | 4398-Foreign Exchange Gains and Losses, Including Amortization | \$0 | \$0 | \$0 | |
| 4405 | 4405-Interest and Dividend Income | -\$567 | -\$592 | -\$25 | 4.46% |
| 4415 | 4415-Equity in Earnings of Subsidiary Companies | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| other | other | \$0 | \$0 | \$0 | |
| | Total | -\$44,493 | -\$28,356 | \$16,137 | 36% |
| | | | | | |
| | Specific Service Charges | -\$5,307 | -\$7,596 | -\$2,289 | 43.14% |
| | Late Payment Charges | -\$5,453 | -\$6,337 | -\$884 | 16.21% |
| | Other Distribution/Operating Revenues | -\$36,310 | -\$13,588 | \$22,722 | 62.58% |
| | Other Income or Deductions | \$2,577 | -\$835 | -\$3,412 | 132.41% |
| | Total | -\$44,493 | -\$28,356 | \$16,137 | 36.27% |

2020 Actual over 2019 Actual - The Other Revenues variance reflects a decrease of \$16,137. The variance is marginal and does not require any variance explanations.

3.4.3 PROPOSED SPECIFIC SERVICE CHARGES¹⁷

Hydro 2000 is not proposing any changes to the current specific services charges including MicroFit service charge.

There are no classes or discrete customer groups that may be materially impacted by changes to other rates and charges.¹⁸

3.4.4 REVENUE FROM AFFILIATE TRANSACTIONS, SHARED SERVICES, CORPORATE COST ALLOCATION.

Hydro 2000 no longer has any affiliates and as such does not have any affiliate transactions, shared services and corporate cost allocation that will be affecting its 2020 rates.¹⁹ Historical transactions are discussed in Exhibit 4 of this application.

¹⁷ MFR – Any new proposed specific service charges

¹⁸ MFR - Distributors must identify any discrete customer groups that may be materially impacted by changes to other rates and charges

¹⁹ MFR - Revenue from affiliate transactions, shared services, corporate cost allocation

APPENDICES

| | |
|------------|-------------------|
| Appendix A | OEB Appendix 2-IB |
|------------|-------------------|

Appendix 2-IB

Customer, Connections, Load Forecast and Revenues Data and Analysis

This sheet is to be filled in accordance with the instructions documented in section 2.3.2 of Chapter 2 of the Filing Requirements for Distribution Rate Applications, in terms of one set of tables per customer class.

Color coding for Cells:

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="background-color: #d9ead3; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Data input | <div style="background-color: #d9d2e9; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Drop-down List |
| <div style="background-color: #cccccc; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> No data entry required | <div style="background-color: #ffffff; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Blank or calculated value |

Distribution System (Total)

| | Calendar Year (for 2020 Cost of Service) | | Consumption (kWh) ⁽³⁾ | | |
|-------------|------------------------------------------------|--|----------------------------------|------------------------|------------------------|
| | | | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | | Actual | 24,020,581.53 | 23,210,172.17 |
| Historical | 2015 | | Actual | 22,812,650.63 | 23,673,379.07 |
| Historical | 2016 | | Actual | 21,821,769.46 | 23,424,887.20 |
| Historical | 2017 | | Actual | 21,411,671.07 | 23,098,607.93 |
| Historical | 2018 | | Actual | 22,313,915.39 | 23,169,630.18 |
| Bridge Year | 2019 | | Actual | 21,857,813.00 | 21,629,284.20 |
| Test Year | 2020 | | Forecast | | 21,913,746.25 |

| Variance Analysis | Year | Year-over-year | | Versus OEB- approved |
|-------------------|-------------------|----------------|-------|-------------------------|
| | 2014 | | | |
| | 2015 | -5.0% | 2.0% | |
| | 2016 | -4.3% | -1.0% | |
| | 2017 | -1.9% | -1.4% | |
| | 2018 | 4.2% | 0.3% | |
| | 2019 | -2.0% | -6.6% | |
| | 2020 | -100.0% | 1.3% | |
| | Geometric Mean | -2.4% | -1.1% | |

Customer Class Analysis (one for each Customer Class, excluding MicroFIT and Standby)

1 Customer Class:

Residential

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

| | Calendar Year (for 2020 Cost of Service) | Customers | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|-------|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | 1,072 | Actual | 13,907,110.00 | 13,907,110.00 | Actual | 12,974.56 | 12,974.56 |
| Historical | 2015 | Actual | 1,075 | Actual | 13,022,914.00 | 13,022,914.00 | Actual | 12,112.61 | 12,112.61 |
| Historical | 2016 | Actual | 1,068 | Actual | 12,346,401.00 | 12,346,401.00 | Actual | 11,564.81 | 11,564.81 |
| Historical | 2017 | Actual | 1,083 | Actual | 12,078,410.04 | 12,078,410.04 | Actual | 11,155.31 | 11,155.31 |
| Historical | 2018 | Actual | 1,085 | Actual | 12,791,618.00 | 12,791,618.00 | Actual | 11,788.60 | 11,788.60 |
| Bridge Year | 2019 | Actual | 1,087 | Actual | 12,775,525.00 | 12,775,525.00 | Actual | 11,753.01 | 11,753.01 |
| Test Year | 2020 | Forecast | 1,113 | Forecast | 12,657,111.65 | | Forecast | 0.00 | 11,372.07 |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | 0.3% | | 2015 | -6.4% | -6.4% | 2015 | -6.6% | -6.6% |
| | 2016 | -0.7% | | 2016 | -5.2% | -5.2% | 2016 | -4.5% | -4.5% |
| | 2017 | 1.4% | | 2017 | -2.2% | -2.2% | 2017 | -3.5% | -3.5% |
| | 2018 | 0.2% | | 2018 | 5.9% | 5.9% | 2018 | 5.7% | 5.7% |
| | 2019 | 0.2% | | 2019 | -0.1% | -0.1% | 2019 | -0.3% | -0.3% |
| | 2020 | 2.4% | | 2020 | -0.9% | -0.9% | 2020 | -3.2% | -3.2% |
| | Geometric Mean | 0.8% | | Geometric Mean | -2.7% | -1.9% | Geometric Mean | -3.1% | -2.6% |

| | Calendar Year (for 2020 Cost of Service) | Revenues | |
|------------------------|------------------------------------------------|----------|------------|
| | | Actual | |
| Historical | 2014 | Actual | \$ 394,647 |
| Historical | 2015 | Actual | \$ 387,194 |
| Historical | 2016 | Actual | \$ 382,726 |
| Historical | 2017 | Actual | \$ 397,059 |
| Historical | 2018 | Actual | \$ 404,168 |
| Bridge Year (Forecast) | 2019 | Actual | \$ 417,309 |
| Test Year (Forecast) | 2020 | Forecast | \$ 461,220 |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | -1.9% | |
| | 2016 | -1.2% | |
| | 2017 | 3.7% | |
| | 2018 | 1.8% | |
| | 2019 | 3.3% | |
| | 2020 | 10.5% | |
| | Geometric Mean | 3.2% | |

2 Customer Class:

GS<50kWh

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|-----|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | 142 | | Actual | 4,287,878.00 | 4,287,878.00 | Actual | 30,294.10 | 30,294.10 |
| Historical | 2015 | Actual | 142 | | Actual | 4,333,237.00 | 4,333,237.00 | Actual | 30,615.26 | 30,615.26 |
| Historical | 2016 | Actual | 143 | | Actual | 4,261,434.00 | 4,261,434.00 | Actual | 29,800.24 | 29,800.24 |
| Historical | 2017 | Actual | 142 | | Actual | 3,971,545.42 | 3,971,545.42 | Actual | 27,952.23 | 27,952.23 |
| Historical | 2018 | Actual | 141 | | Actual | 4,062,996.00 | 4,062,996.00 | Actual | 28,815.57 | 28,815.57 |
| Bridge Year | 2019 | Actual | 141 | | Actual | 3,995,372.00 | 3,995,372.00 | Actual | 28,335.97 | 28,335.97 |
| Test Year | 2020 | Forecast | 141 | | Forecast | | 4,049,206.92 | Forecast | 0.00 | 28,717.78 |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | | Test Year Versus OEB- approved | Year | Year-over-year | | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|-------|--------------------------------------|----------------|----------------|-------|--------------------------------------|
| | 2014 | | | 2014 | | | | 2014 | | | |
| | 2015 | 0.0% | | 2015 | 1.1% | 1.1% | | 2015 | 1.1% | 1.1% | |
| | 2016 | 1.0% | | 2016 | -1.7% | -1.7% | | 2016 | -2.7% | -2.7% | |
| | 2017 | -0.6% | | 2017 | -6.8% | -6.8% | | 2017 | -6.2% | -6.2% | |
| | 2018 | -0.8% | | 2018 | 2.3% | 2.3% | | 2018 | 3.1% | 3.1% | |
| | 2019 | 0.0% | | 2019 | -1.7% | -1.7% | | 2019 | -1.7% | -1.7% | |
| | 2020 | 0.0% | | 2020 | | 1.3% | | 2020 | | 1.3% | |
| | Geometric Mean | -0.1% | | Geometric Mean | -1.8% | -1.1% | | Geometric Mean | -1.7% | -1.1% | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|-----------|--|
| | | | | |
| Historical | 2014 | Actual | \$ 77,830 | |
| Historical | 2015 | Actual | \$ 79,169 | |
| Historical | 2016 | Actual | \$ 78,868 | |
| Historical | 2017 | Actual | \$ 77,232 | |
| Historical | 2018 | Actual | \$ 77,837 | |
| Bridge Year (Forecast) | 2019 | Actual | \$ 78,081 | |
| Test Year (Forecast) | 2020 | Forecast | \$ 81,729 | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | 1.7% | |
| | 2016 | -0.4% | |
| | 2017 | -2.1% | |
| | 2018 | 0.8% | |
| | 2019 | 0.3% | |
| | 2020 | 4.7% | |
| | Geometric Mean | 1.0% | |

3 Customer Class:

GS>50kW

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kW) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|----|--|---------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | 11 | | Actual | 11,224.00 | 11,224.00 | Actual | 1,020.36 | 1,020.36 |
| Historical | 2015 | Actual | 11 | | Actual | 10,150.80 | 10,150.80 | Actual | 922.80 | 922.80 |
| Historical | 2016 | Actual | 11 | | Actual | 13,326.00 | 13,326.00 | Actual | 1,211.45 | 1,211.45 |
| Historical | 2017 | Actual | 12 | | Actual | 12,007.12 | 12,007.12 | Actual | 1,000.59 | 1,000.59 |
| Historical | 2018 | Actual | 12 | | Actual | 10,588.70 | 10,588.70 | Actual | 882.39 | 882.39 |
| Bridge Year | 2019 | Actual | 13 | | Actual | 10,938.60 | 10,938.60 | Actual | 841.43 | 841.43 |
| Test Year | 2020 | Forecast | 13 | | Forecast | | 11,012.85 | Forecast | 0.00 | 847.14 |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | | | | | | | | | |
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | 0.0% | | 2015 | -9.6% | -9.6% | 2015 | -9.6% | -9.6% |
| | 2016 | 0.0% | | 2016 | 31.3% | 31.3% | 2016 | 31.3% | 31.3% |
| | 2017 | 9.1% | | 2017 | -9.9% | -9.9% | 2017 | -17.4% | -17.4% |
| | 2018 | 0.0% | | 2018 | -11.8% | -11.8% | 2018 | -11.8% | -11.8% |
| | 2019 | 8.3% | | 2019 | 3.3% | 3.3% | 2019 | -4.6% | -4.6% |
| | 2020 | 0.0% | | 2020 | 0.7% | 0.7% | 2020 | 0.7% | 0.7% |
| | Geometric Mean | 3.4% | | Geometric Mean | -1.9% | -0.4% | Geometric Mean | -4.7% | -3.7% |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|-----------|--|
| | | | | |
| Historical | 2014 | Actual | \$ 15,929 | |
| Historical | 2015 | Actual | \$ 14,616 | |
| Historical | 2016 | Actual | \$ 19,122 | |
| Historical | 2017 | Actual | \$ 17,538 | |
| Historical | 2018 | Actual | \$ 15,497 | |
| Bridge Year (Forecast) | 2019 | Actual | \$ 29,193 | |
| Test Year (Forecast) | 2020 | Forecast | \$ 28,851 | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | | | |
| | 2014 | | |
| | 2015 | -8.2% | |
| | 2016 | 30.8% | |
| | 2017 | -8.3% | |
| | 2018 | -11.6% | |
| | 2019 | 88.4% | |
| | 2020 | -1.2% | |
| | Geometric Mean | 12.6% | |

4 Customer Class: Unmetered Scattered Load

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

| | Calendar Year (for 2020 Cost of Service) | Customers | | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|---|--|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | 4 | | | Actual | 17,280.00 | 17,280.00 | Actual | 4,320.00 | 4,320.00 |
| Historical | 2015 | Actual | 4 | | | Actual | 17,280.00 | 17,280.00 | Actual | 4,320.00 | 4,320.00 |
| Historical | 2016 | Actual | 4 | | | Actual | 17,280.00 | 17,280.00 | Actual | 4,320.00 | 4,320.00 |
| Historical | 2017 | Actual | 4 | | | Actual | 17,280.00 | 17,280.00 | Actual | 4,320.00 | 4,320.00 |
| Historical | 2018 | Actual | 4 | | | Actual | 17,280.00 | 17,280.00 | Actual | 4,320.00 | 4,320.00 |
| Bridge Year | 2019 | Actual | 4 | | | Actual | 17,280.00 | 17,280.00 | Actual | 4,320.00 | 4,320.00 |
| Test Year | 2020 | Forecast | 4 | | | Forecast | 17,280.00 | 17,280.00 | Forecast | 0.00 | 4,320.00 |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | | Test Year Versus OEB- approved | Year | Year-over-year | | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|------|--------------------------------------|----------------|----------------|------|--------------------------------------|
| | 2014 | | | 2014 | | | | 2014 | | | |
| | 2015 | 0.0% | | 2015 | 0.0% | 0.0% | | 2015 | 0.0% | 0.0% | |
| | 2016 | 0.0% | | 2016 | 0.0% | 0.0% | | 2016 | 0.0% | 0.0% | |
| | 2017 | 0.0% | | 2017 | 0.0% | 0.0% | | 2017 | 0.0% | 0.0% | |
| | 2018 | 0.0% | | 2018 | 0.0% | 0.0% | | 2018 | 0.0% | 0.0% | |
| | 2019 | 0.0% | | 2019 | 0.0% | 0.0% | | 2019 | 0.0% | 0.0% | |
| | 2020 | 0.0% | | 2020 | | 0.0% | | 2020 | | 0.0% | |
| | Geometric Mean | 0.0% | | Geometric Mean | 0.0% | 0.0% | | Geometric Mean | 0.0% | 0.0% | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | | |
|------------------------|------------------------------------------------|----------|----------|--|--|
| | | | | | |
| Historical | 2014 | Actual | \$ 1,454 | | |
| Historical | 2015 | Actual | \$ 1,474 | | |
| Historical | 2016 | Actual | \$ 1,474 | | |
| Historical | 2017 | Actual | \$ 1,498 | | |
| Historical | 2018 | Actual | \$ 1,498 | | |
| Bridge Year (Forecast) | 2019 | Actual | \$ 1,485 | | |
| Test Year (Forecast) | 2020 | Forecast | \$ 518 | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | 1.4% | |
| | 2016 | 0.0% | |
| | 2017 | 1.6% | |
| | 2018 | 0.0% | |
| | 2019 | -0.8% | |
| | 2020 | -65.1% | |
| | Geometric Mean | -18.6% | |

5 Customer Class:

Streetlighting

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|-----|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | 369 | | Actual | 512.00 | 512.00 | Actual | 1.39 | 1.39 |
| Historical | 2015 | Actual | 370 | | Actual | 420.00 | 420.00 | Actual | 1.14 | 1.14 |
| Historical | 2016 | Actual | 370 | | Actual | 420.00 | 420.00 | Actual | 1.14 | 1.14 |
| Historical | 2017 | Actual | 370 | | Actual | 420.00 | 420.00 | Actual | 1.14 | 1.14 |
| Historical | 2018 | Actual | 370 | | Actual | 420.00 | 420.00 | Actual | 1.14 | 1.14 |
| Bridge Year | 2019 | Actual | 370 | | Actual | 420.00 | 420.00 | Actual | 1.14 | 1.14 |
| Test Year | 2020 | Forecast | 370 | | Forecast | 420.00 | 421.00 | Forecast | 0.00 | 1.14 |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | | Test Year Versus OEB- approved | Year | Year-over-year | | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------|--------------------------------------|----------------|----------------|--------|--------------------------------------|
| | 2014 | | | 2014 | | | | 2014 | | | |
| | 2015 | 0.3% | | 2015 | -18.0% | -18.0% | | 2015 | -18.2% | -18.2% | |
| | 2016 | 0.0% | | 2016 | 0.0% | 0.0% | | 2016 | 0.0% | 0.0% | |
| | 2017 | 0.0% | | 2017 | 0.0% | 0.0% | | 2017 | 0.0% | 0.0% | |
| | 2018 | 0.0% | | 2018 | 0.0% | 0.0% | | 2018 | 0.0% | 0.0% | |
| | 2019 | 0.0% | | 2019 | 0.0% | 0.0% | | 2019 | 0.0% | 0.0% | |
| | 2020 | 0.0% | | 2020 | | 0.2% | | 2020 | | 0.2% | |
| | Geometric Mean | 0.1% | | Geometric Mean | -6.4% | -3.8% | | Geometric Mean | -6.5% | -3.9% | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|-----------|--|
| | | | | |
| Historical | 2014 | Actual | \$ 34,497 | |
| Historical | 2015 | Actual | \$ 34,415 | |
| Historical | 2016 | Actual | \$ 34,415 | |
| Historical | 2017 | Actual | \$ 34,965 | |
| Historical | 2018 | Actual | \$ 34,965 | |
| Bridge Year (Forecast) | 2019 | Actual | \$ 8,616 | |
| Test Year (Forecast) | 2020 | Forecast | \$ 8,837 | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | -0.2% | |
| | 2016 | 0.0% | |
| | 2017 | 1.6% | |
| | 2018 | 0.0% | |
| | 2019 | -75.4% | |
| | 2020 | 2.6% | |
| | Geometric Mean | -23.8% | |

6 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|--|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | | | Actual | | | Actual | | |
| Historical | 2015 | Actual | | | Actual | | | Actual | | |
| Historical | 2016 | Actual | | | Actual | | | Actual | | |
| Historical | 2017 | Actual | | | Actual | | | Actual | | |
| Historical | 2018 | Actual | | | Actual | | | Actual | | |
| Bridge Year | 2019 | Actual | | | Actual | | | Actual | | |
| Test Year | 2020 | Forecast | | | Forecast | | | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | | | 2015 | | | 2015 | | |
| | 2016 | | | 2016 | | | 2016 | | |
| | 2017 | | | 2017 | | | 2017 | | |
| | 2018 | | | 2018 | | | 2018 | | |
| | 2019 | | | 2019 | | | 2019 | #VALUE! | |
| | 2020 | | | 2020 | | | 2020 | | |
| | Geometric Mean | | | Geometric Mean | | | Geometric Mean | | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|--|--|
| Historical | 2014 | Actual | | |
| Historical | 2015 | Actual | | |
| Historical | 2016 | Actual | | |
| Historical | 2017 | Actual | | |
| Historical | 2018 | Actual | | |
| Bridge Year (Forecast) | 2019 | Actual | | |
| Test Year (Forecast) | 2020 | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | | |
| | 2016 | | |
| | 2017 | | |
| | 2018 | | |
| | 2019 | | |
| | 2020 | | |
| | Geometric Mean | | |

7 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|--|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | | | Actual | | | Actual | | |
| Historical | 2015 | Actual | | | Actual | | | Actual | | |
| Historical | 2016 | Actual | | | Actual | | | Actual | | |
| Historical | 2017 | Actual | | | Actual | | | Actual | | |
| Historical | 2018 | Actual | | | Actual | | | Actual | | |
| Bridge Year | 2019 | Actual | | | Actual | | | Actual | | |
| Test Year | 2020 | Forecast | | | Forecast | | | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | | | 2015 | | | 2015 | | |
| | 2016 | | | 2016 | | | 2016 | | |
| | 2017 | | | 2017 | | | 2017 | | |
| | 2018 | | | 2018 | | | 2018 | | |
| | 2019 | | | 2019 | | | 2019 | #VALUE! | |
| | 2020 | | | 2020 | | | 2020 | | |
| | Geometric Mean | | | Geometric Mean | | | Geometric Mean | | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|--|--|
| Historical | 2014 | Actual | | |
| Historical | 2015 | Actual | | |
| Historical | 2016 | Actual | | |
| Historical | 2017 | Actual | | |
| Historical | 2018 | Actual | | |
| Bridge Year (Forecast) | 2019 | Actual | | |
| Test Year (Forecast) | 2020 | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | | |
| | 2016 | | |
| | 2017 | | |
| | 2018 | | |
| | 2019 | | |
| | 2020 | | |
| | Geometric Mean | | |

8 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|--|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | | | Actual | | | Actual | | |
| Historical | 2015 | Actual | | | Actual | | | Actual | | |
| Historical | 2016 | Actual | | | Actual | | | Actual | | |
| Historical | 2017 | Actual | | | Actual | | | Actual | | |
| Historical | 2018 | Actual | | | Actual | | | Actual | | |
| Bridge Year | 2019 | Actual | | | Actual | | | Actual | | |
| Test Year | 2020 | Forecast | | | Forecast | | | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | | | 2015 | | | 2015 | | |
| | 2016 | | | 2016 | | | 2016 | | |
| | 2017 | | | 2017 | | | 2017 | | |
| | 2018 | | | 2018 | | | 2018 | | |
| | 2019 | | | 2019 | | | 2019 | #VALUE! | |
| | 2020 | | | 2020 | | | 2020 | | |
| | Geometric Mean | | | Geometric Mean | | | Geometric Mean | | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|--|--|
| Historical | 2014 | Actual | | |
| Historical | 2015 | Actual | | |
| Historical | 2016 | Actual | | |
| Historical | 2017 | Actual | | |
| Historical | 2018 | Actual | | |
| Bridge Year (Forecast) | 2019 | Actual | | |
| Test Year (Forecast) | 2020 | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | | |
| | 2016 | | |
| | 2017 | | |
| | 2018 | | |
| | 2019 | | |
| | 2020 | | |
| | Geometric Mean | | |

9 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|--|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | | | Actual | | | Actual | | |
| Historical | 2015 | Actual | | | Actual | | | Actual | | |
| Historical | 2016 | Actual | | | Actual | | | Actual | | |
| Historical | 2017 | Actual | | | Actual | | | Actual | | |
| Historical | 2018 | Actual | | | Actual | | | Actual | | |
| Bridge Year | 2019 | Actual | | | Actual | | | Actual | | |
| Test Year | 2020 | Forecast | | | Forecast | | | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | | | 2015 | | | 2015 | | |
| | 2016 | | | 2016 | | | 2016 | | |
| | 2017 | | | 2017 | | | 2017 | | |
| | 2018 | | | 2018 | | | 2018 | | |
| | 2019 | | | 2019 | | | 2019 | #VALUE! | |
| | 2020 | | | 2020 | | | 2020 | | |
| | Geometric Mean | | | Geometric Mean | | | Geometric Mean | | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|--|--|
| Historical | 2014 | Actual | | |
| Historical | 2015 | Actual | | |
| Historical | 2016 | Actual | | |
| Historical | 2017 | Actual | | |
| Historical | 2018 | Actual | | |
| Bridge Year (Forecast) | 2019 | Actual | | |
| Test Year (Forecast) | 2020 | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | | |
| | 2016 | | |
| | 2017 | | |
| | 2018 | | |
| | 2019 | | |
| | 2020 | | |
| | Geometric Mean | | |

10 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

| | Calendar Year (for 2020 Cost of Service) | Customers | | | Consumption (kWh) ⁽³⁾ | | | Consumption (kWh) per Customer | | |
|-------------|------------------------------------------------|-----------|--|--|----------------------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|
| | | | | | Actual (Weather actual) | Weather- normalized | Weather- normalized | Actual (Weather actual) | Weather- normalized | Weather- normalized |
| Historical | 2014 | Actual | | | Actual | | | Actual | | |
| Historical | 2015 | Actual | | | Actual | | | Actual | | |
| Historical | 2016 | Actual | | | Actual | | | Actual | | |
| Historical | 2017 | Actual | | | Actual | | | Actual | | |
| Historical | 2018 | Actual | | | Actual | | | Actual | | |
| Bridge Year | 2019 | Actual | | | Actual | | | Actual | | |
| Test Year | 2020 | Forecast | | | Forecast | | | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|----------------|----------------|--------------------------------------|
| | 2014 | | | 2014 | | | 2014 | | |
| | 2015 | | | 2015 | | | 2015 | | |
| | 2016 | | | 2016 | | | 2016 | | |
| | 2017 | | | 2017 | | | 2017 | | |
| | 2018 | | | 2018 | | | 2018 | | |
| | 2019 | | | 2019 | | | 2019 | #VALUE! | |
| | 2020 | | | 2020 | | | 2020 | | |
| | Geometric Mean | | | Geometric Mean | | | Geometric Mean | | |

| | Calendar Year (for 2020 Cost of Service) | Revenues | | |
|------------------------|------------------------------------------------|----------|--|--|
| Historical | 2014 | Actual | | |
| Historical | 2015 | Actual | | |
| Historical | 2016 | Actual | | |
| Historical | 2017 | Actual | | |
| Historical | 2018 | Actual | | |
| Bridge Year (Forecast) | 2019 | Actual | | |
| Test Year (Forecast) | 2020 | Forecast | | |

| Variance Analysis | Year | Year-over-year | Test Year Versus OEB- approved |
|-------------------|----------------|----------------|--------------------------------------|
| | 2014 | | |
| | 2015 | | |
| | 2016 | | |
| | 2017 | | |
| | 2018 | | |
| | 2019 | | |
| | 2020 | | |
| | Geometric Mean | | |

Note: If there are more than ten (10) customer classes, please contact OEB Staff to add tables for additional customer classes.