| 1  | Request I     | R-6:  |
|----|---------------|---|
| 2  |               |   |
| 3  | In respon     | se to Multeese IR-3, NSPI provided an example of how the security deposit would |
| 4  | be calcula    | ted in Attachment 1. In an effort to better understand the intended cash flows: |
| 5  |               |   |
| 6  | (a) Ple       | ease clarify whether the security deposit would be 200% of each amount in the   |
| 7  | <b>"</b> T    | otal Revenue" column and how NSPI proposes to adjust this month to month?       |
| 8  |               |   |
| 9  | (i)           | Would the security deposit for February be \$834,160 (\$417,080 x 2)?           |
| 10 |               |   |
| 11 | ( <b>ii</b> ) | There is a wide range of possible monthly costs, please clarify what the        |
| 12 |               | maximum amount under this scenario NSPI could charge as a security              |
| 13 |               | deposit.  |
| 14 |               |   |
| 15 | (iii          | ) Would NSPI be requesting (refunding) the net variance from the prior          |
| 16 |               | month?  |
| 17 |               |   |
| 18 | (iv           | ) If not, how does NSPI propose to account for and credit LRS customers for     |
| 19 |               | security deposits?  |
| 20 |               |   |
| 21 | ( <b>v</b> )  | With the current applications under the OATT, please identify the deposit       |
| 22 |               | requirements. If necessary, use the Antigonish application that is before the   |
| 23 |               | Board under Matter M07086 to demonstrate anticipated, comparable                |
| 24 |               | deposits and cash flow.   |
| 25 |               |   |
| 26 | Response      | IR-6:   |
| 27 |               |   |
| 28 | Please refe   | er to Multeese IR-3 Attachment 1.   |
| 29 |               |   |

| 1  | (a) | The a  | mount of credit assurance required is calculated as 200% of the forecasted payment        |  |
|----|-----|--|---|--|
| 2  |     | for the LRS Tariffed Services and DT Charges combined, rounded up for any fractional |   |  |
| 3  |     | amount to the nearest \$1000. For the examples shown in the spreadsheet and notes in |   |  |
| 4  |     | Multeese IR-3 Attachment 1, the forecasted payment is the amount shown in the "Total |   |  |
| 5  |     | Reve   | Revenue" column. The table illustrates a monthly forecasting period and this is reflected |  |
| 6  |     | in the   | e response to this IR.  |  |
| 7  |     |  |   |  |
| 8  |     | Mont   | hly adjustments to the amount of credit assurance required will be based on NS            |  |
| 9  |     | Powe   | r's forecast of the LRS's payments for the upcoming month. The forecast will              |  |
| 10 |     | consi  | der the LRS's service requirements over the previous month(s), seasonal load              |  |
| 11 |     | patter   | rns and take into account projected changes in service requirements provided by the       |  |
| 12 |     | LRS for the upcoming month (e.g. RtR Customer transfers to or from the LRS). This    |   |  |
| 13 |     | process would be repeated on a monthly basis to determine the credit assurance       |   |  |
| 14 |     | requirement for the upcoming month.  |   |  |
| 15 |     |  |   |  |
| 16 |     | (i)  | The credit assurance amount required for February in Multeese IR-3 Attachment             |  |
| 17 |     |  | 1 example would be \$835,000. ( $$417,080 \times 2 = $834,160$ rounded up to              |  |
| 18 |     |  | \$835,000).   |  |
| 19 |     |  |   |  |
| 20 |     | (ii)   | Under the Multeese IR-3 Attachment 1 scenario, the maximum amount of credit               |  |
| 21 |     |  | assurance required by NS Power of the LRS would be \$2,660,000. This is                   |  |
| 22 |     |  | calculated as 200% of the example's forecasted payment of \$1,329,674 for the             |  |
| 23 |     |  | month of September, rounded up to the nearest \$1000.                                     |  |
| 24 |     |  |   |  |
| 25 |     | (iii–iv  | v) Yes.   |  |
| 26 |     |  |   |  |
| 27 |     |  | If the credit assurance currently held by NS Power is insufficient to meet the            |  |
| 28 |     |  | amount required for the upcoming month, NS Power will request the LRS to                  |  |
| 29 |     |  | provide additional credit assurance in an amount sufficient to cover the shortfall.       |  |
| 30 |     |  | In the Multeese IR-3 Attachment 1 example, an amount of \$432,000 was                     |  |

| 1  |     | provided as credit assurance required for January. Based on the February forecast      |
|----|-----|--|
| 2  |     | of the LRS's Tariffed Services and DT Charges, the additional credit assurance         |
| 3  |     | requirement for February would be \$403,000 (\$835,000 less \$432,000 previously       |
| 4  |     | provided).   |
| 5  |     |  |
| 6  |     | If the credit assurance currently held by NS Power is in excess of the amount          |
| 7  |     | required, the LRS could, upon payment of the current charges (inclusive of any         |
| 8  |     | amounts in arrears), request that NS Power reduce the credit assurance amount in       |
| 9  |     | an amount up to the excess.  |
| 10 |     |  |
| 11 | (v) | The OATT in Section 11 states that the Transmission Provider may require               |
| 12 |     | reasonable credit review procedures to determine the Transmission Customer's           |
| 12 |     | ability to meet its payment obligations related to transmission services               |
| 14 |     | Additionally the Transmission Provider may require the Transmission Customer           |
| 14 |     | Additionally, the Transmission Flowder may require the Transmission Customer           |
| 15 |     | to provide and maintain, during the term of their OATT service, an unconditional       |
| 16 |     | and irrevocable letter of credit (or an alternative form of security acceptable to the |
| 17 |     | Transmission Provider) to meet the Transmission Customer's payment                     |
| 18 |     | responsibilities and obligations under the OATT and protect the Transmission           |
| 19 |     | Provider against the risk of non-payment.  |
| 20 |     |  |
| 21 |     | The transmission service application procedures in Sections 17.3 (Point to Point       |
| 22 |     | service) and Section 29.2 (Network service) of the OATT set out the requirement        |
| 23 |     | for the submission of an application deposit by the Transmission Customer in an        |
| 24 |     | amount approximating the charge for one month of service. This deposit is              |
| 25 |     | required to constitute a complete application for transmission service, and is         |
| 26 |     | necessary to enter the transmission service study queue. The application deposit       |
| 27 |     | is separate from the security required under Section 11 of the OATT which is           |
| 28 |     | required once transmission service commences.  |
| 29 |     |  |

| 2 It is to be determined by the Transmission Provider in an amount sufficie |
|---|
| 3 meet the Transmission Customers payment obligations under the OATT.       |
| 4 LRS receiving transmission service for RtR, the OATT security requirement |
| 5 Section 11 would be addressed through the Credit Assurance provision      |
| 6 Section 18 of the LRS Terms & Conditions.                                 |

| 1  | Requ        | est IR-7:   |
|----|-------------|---|
| 2  |             |   |
| 3  | With        | respect to the response to NSUARB IR-5, NSPI provided a rough estimate of costs to          |
| 4  | be de       | ferred related to the development of this market at \$1 million.                            |
| 5  |             |   |
| 6  | <b>(a)</b>  | Please clarify if these are tax affected estimates, if not, please provide the net          |
| 7  |             | deferral NSPI would assign to this.   |
| 8  |             |   |
| 9  | <b>(b</b> ) | Would NSPI require Board approval to ensure there is no inappropriate assignment            |
| 10 |             | of tax deferrals related to the timing of these deductions?                                 |
| 11 |             |   |
| 12 | (c)         | Will any portion of these be considered a rate base item impacting other customers?         |
| 13 |             |   |
| 14 | Respo       | onse IR-7:  |
| 15 |             |   |
| 16 | (a)         | The estimate of costs to be deferred of \$1 million is not tax affected. Under deferred tax |
| 17 |             | accounting, the net deferral would be \$690K reflecting the RtR deferral of \$1M, net of a  |
| 18 |             | deferred tax liability of \$310K.   |
| 19 |             |   |
| 20 | (b)         | NS Power will apply to the Board for approval to use deferred tax accounting and to         |
| 21 |             | record the deferred tax effect of the RtR spending in the Statement of Earnings in          |
| 22 |             | accordance with US Generally Accepted Accounting Principles and in accordance with          |
| 23 |             | NS Power's approved accounting policy 5900.04. Please refer to Attachment 1.                |
| 24 |             |   |
| 25 | (c)         | The deferral will be included in rate base and NS Power will earn a return on the deferral  |
| 26 |             | similar to other rate base items however as noted in NSUARB IR-5, the inclusion of the      |
| 27 |             | cost of financing the deferral in the deferral balance, through the application of the      |
| 28 |             | Company's weighted average cost of capital, will offset the cost of financing this asset,   |
| 29 |             | similar to other deferrals, thereby not imposing costs on other NS Power customers.         |



COST OF OPERATIONS

**INCOME TAXES - 5900** 

#### POLICY

- 01 Income tax expense should be categorized as current or deferred income tax expense as appropriate.
- 02 The Company uses the applicable enacted tax rate when measuring current and deferred income tax expense.
- 03 The Company follows the flow-through method of accounting for investment tax credits ("ITC's"). ITC's are recorded in the year earned as a reduction to income tax expense to the extent that realization of such benefit is more likely than not.
- 04 The Company recognizes deferred income tax assets (liabilities) as appropriate. To the extent deferred income taxes are expected to be recovered from or returned to customers in future rates, the Company will recognize a deferred regulatory asset (liability)<sup>1</sup>, unless directed otherwise by the Nova Scotia Utility and Review Board.

#### FEDERAL INCOME TAXES

05 The Company is subject to federal income tax at prescribed rates applied to taxable income.

#### **PROVINCIAL INCOME TAXES**

06 The Company is subject to provincial income tax at prescribed rates applied to taxable income.

#### PART VI.1 TAX

07 The Company is subject to Part VI.1 tax at a prescribed rate applied to preferred share dividends paid. The Company receives a tax deduction equal to a prescribed multiple of the Part VI.1 tax.

1 FASB ASC 980-740-25-2

COST OF OPERATIONS

**INCOME TAXES - 5900** 



#### PROCEDURES

- 08 A monthly income tax provision is recorded by multiplying the Company's effective combined federal and provincial income tax rate forecasted for the year by the net earnings before tax for the period.
- 09 The net Part VI.1 tax is calculated using enacted rates and recorded as current income tax expense (recovery). The monthly Part VI.1 tax expense is based on the amount of preferred dividends declared in the month. The monthly Part VI.1 tax deduction is based on the annual forecasted Part VI.1 deduction prorated based upon the total preferred dividends declared in a month.
- 10 The Company currently follows the policy of claiming sufficient capital cost allowance and cumulative eligible capital (the tax system's equivalent of depreciation and amortization), to minimize taxable income.
- 11 Federal and provincial income taxes, including net Part VI.1 tax, are included in general ledger account 086 Income Tax Expense.

| 1 | Request | <b>IR-8:</b> |
|---|---------|--------------|
|   |         |              |

2

| 4  |  |  |  |
|----|--|--|--|
| 3  | Pre-amble: In NSPI's application, each tariff is referenced to an electronic appendix for      |  |  |
| 4  | support of how the rates are derived. It is challenging to reconcile the various tariffs from  |  |  |
| 5  | the initial revenue requirement/cost of service through to resulting rates. As an example,     |  |  |
| 6  | the Energy Balancing Tariff is presented in Figure 4, referencing Appendix 19A as              |  |  |
| 7  | support, which then references "Appendix C 2014 COS Costs - Exhibit 5; page 1 Energy -         |  |  |
| 8  | Exhibit 9A, line 11, col 3 divided by a transmission loss factor of 1.032".                    |  |  |
| 9  |  |  |  |
| 10 | It is unclear where some of this material is on the record and what costs in the COS result    |  |  |
| 11 | in the tariff rates being requested.   |  |  |
| 12 |  |  |  |
| 13 | To clarify the supporting information and calculations as well as simplify reconciling the     |  |  |
| 14 | rate build up for each tariff, could you consolidate and reference the backup for each tariff. |  |  |
| 15 | Please consolidate all such material and supporting calculations, by tariff, as separate       |  |  |
| 16 | attachments to this IR.  |  |  |
| 17 |  |  |  |
| 18 | Response IR-8:   |  |  |
| 19 |  |  |  |
| 20 | (1) COSS Model   |  |  |
| 21 |  |  |  |
| 22 | The COSS Model used to derive some of the rates is provided as Attachment 1, provided          |  |  |
| 23 | electronically only. It is unchanged from Application Appendix 11A. References to              |  |  |
| 24 | "COSS Exhibit" sources refer to the Tabs of this workbook.                                     |  |  |
|    |  |  |  |

1 (2) Distribution Tariff (DT)

| Proposed Distribution Tariff             | Attachment 2                                  |  |  |
|--|---|--|--|
|  | Attachment 3, also provided electronically;   |  |  |
|  | refers to Attachment 1, Tab "Input Data Two", |  |  |
| Proof of Revenue                         | column R.                                     |  |  |
|  | (originally Application Appendix 17A)         |  |  |
| Strawman May 21, 2015                    | Attachment 4                                  |  |  |
| Data Requests relating to the            |   |  |  |
| Distribution Tariff                      | Attachment 5                                  |  |  |
| Please refer also to these IR responses: |   |  |  |
| IRs from Round 1                         |   |  |  |
| Distribution losses                      | CA IR-4                                       |  |  |
| IRs from Round 2                         |   |  |  |
| DT charges                               | Multeese IR-11                                |  |  |
| Streetlight charges                      | Multeese IR-12                                |  |  |

2 3

# (3) Energy Balancing Services Tariff (EBS)

| Proposed EBS Tariff                    | Attachment 6                            |
|--|---|
| Top-up Energy Charge Components        | Attachment 7, also provided             |
| Fuel Cost (6.650 cents / kWh)          | electronically.                         |
|  | "Energy Balancing Rate Calc" tab,       |
|  | rows 20-25; Plexos simulation           |
| Fixed Cost Adder (3.309 cents / kWh)   | Attachment 7 ELECTRONIC                 |
|  | "Energy Balancing Rate Calc" tab,       |
|  | Rows 27-30 and 34-48                    |
|  | Some numbers are sourced from tabs "Exh |
|  | 5" and "Exh 9a Annual" of the COSS      |
|  | model in Attachment 1.                  |
| Spill Energy Credit (5.27 cents / kWh; | Attachment 7 ELECTRONIC                 |

# NSPI Renewable to Retail (NSUARB P-896/M06214) NSPI Responses to NSUARB Information Requests

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| subject to discount for excess spill)    | "Energy Balancing Rate Calc" tab, |
|--|-----------------------------------|
|  | rows 6-14; Plexos simulation      |
| Administration Charge                    | Attachment 7 ELECTRONIC           |
|  | "Customer Charge Calc" tab        |
| Presentation: Proposed Energy Balancing  | Attachment 8                      |
| Service and Standby Service for          |                                   |
| Renewable to Retail                      |                                   |
| Data Requests relating to EBS            | Attachment 9                      |
| Please refer also to these IR responses: |                                   |
| IRs from Round 1                         |                                   |
| Top-up and Spill                         | CA IR-8, 9, 15, 16, 19            |
|  | ECI IR-7                          |
|  | Multeese IR-4                     |
|  | NSUARB IR-2                       |
|  | SBA IR-8                          |
| Avoided Costs                            | CA IR-10                          |
| Administration Charge                    | SWEB IR-7                         |
| Losses                                   | CA IR-22, 23                      |
| FAM balance                              | CA IR-31                          |
| IRs from Round 2                         |                                   |
| Top-up and spill                         | Multeese IR-7, SBA IR-10          |

1 2

# (4) Standby Service Tariff (SS)

| Proposed Standby Service Tariff          | Attachment 10                        |
|--|--------------------------------------|
| Demand Charge \$5.370 /month/kW          | Attachment 11, also provided         |
|  | electronically.                      |
|  | Refers to Attachment 1 COSS tab "Exh |
|  | 5" and Attachment 12, pages 7-8      |
| 2013 General Rate Application, DE-03-DE- | Attachment 12                        |

| 04 Appendix L Attachment 3, pages 7 and 8. |                                    |  |  |
|--|------------------------------------|--|--|
| This is from Exhibit N-3(i) on the UARB    |                                    |  |  |
| Website, under M04972.                     |                                    |  |  |
| Administration Charge                      | Attachment 7, Tab "Customer Charge |  |  |
|  | Calc"                              |  |  |
| Data Requests relating to SS               | Attachment 13                      |  |  |
| Please refer also to these IR responses:   |                                    |  |  |
| IRs from Round 1                           |                                    |  |  |
| Demand charge                              | NSUARB IR-2                        |  |  |
|  | SWEB IR-6                          |  |  |
|  |                                    |  |  |

1 2

# (5) Renewable to Retail Market Transition Tariff (RTT)

| Proposed Renewable to Retail Market      | Attachment 14                           |  |  |
|--|---|--|--|
|  |   |  |  |
| Transition Tariff                        |   |  |  |
| Rate Derivation                          | Same as Fixed Cost adder in EBS:        |  |  |
| Energy Charge                            | Attachment 7 ELECTRONIC                 |  |  |
| • Fixed Cost Adder from EBS, 3.309       | "Energy Balancing Rate Calc" tab,       |  |  |
| cents / kWh                              | Rows 27-30 and 34-48                    |  |  |
|  | Some numbers are sourced from tabs "Exh |  |  |
|  | 5" and "Exh 9a Annual" of the COSS      |  |  |
|  | model in Attachment 1.                  |  |  |
| Rate Derivation                          | Same as Demand Charge in SS:            |  |  |
| Demand Charge                            | Attachment 11 ELECTRONIC                |  |  |
| Demand Charge from Standby               | Refers to Attachment 1 COSS tab "Exh 5" |  |  |
| Tariff \$5.370 /month/kW                 | and Attachment 12, pages 7-8            |  |  |
| DRs on RTT                               | Multeese DR-29                          |  |  |
| Please refer also to these IR responses: |   |  |  |
| Round 1 IRs                              |   |  |  |

# NSPI Renewable to Retail (NSUARB P-896/M06214) NSPI Responses to NSUARB Information Requests

|    |     |       | Demand charge                       | CA IR-27, 28, 29                                   |  |
|----|-----|-------|-------------------------------------|--|--|
| 1  |     |       |                                     |  |  |
| 2  | (6) | OAT   | T Schedule 4A                       |  |  |
|    |     | Prop  | osed OATT Schedule 4A               | Attachment 15                                      |  |
|    |     | Ratio | nale for OATT Schedule 4A           | Multeese DR-33, provided as Attachment             |  |
|    |     |       |                                     | 16   |  |
|    |     | Pleas | e refer also to these IR responses: |  |  |
|    |     | Roun  | id 1 IRs                            |  |  |
|    |     |       | 10% threshold CA IR-24              |  |  |
|    |     | Roun  | Round 2 IRs                         |  |  |
|    |     |       | 10% threshold                       | Multeese IR-10                                     |  |
| 3  |     |       |                                     |  |  |
| 4  | (7) | Samp  | ble rate calculations               |  |  |
| 5  |     |       |                                     |  |  |
| 6  |     | (a)   | Unit revenues, under certain assu   | imptions, in cents per kWh - Application Figure    |  |
| 7  |     |       | 7, Application Appendix 24, and     | d NSUARB IR-9.                                     |  |
| 8  |     |       |                                     |  |  |
| 9  |     | (b)   | Detailed simulation scenarios un    | nder certain assumptions, calculating total tariff |  |
| 10 |     |       | charges - SWEB IR-1 Attachme        | ents 1 and 2.                                      |  |

NSUARB IR-8 Attachment 1 has been provided electronically only.



# **DISTRIBUTION TARIFF**

As Approved by the UARB on  $\ \bullet$ 

# Nova Scotia Power Distribution Tariff

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#### 1. **DEFINITIONS**

In this Distribution Tariff, the following terms shall have the following meanings:

Act: The *Electricity Act*, S.N.S. 2004, c. 25, as amended from time to time.

**Ancillary Services:** Services that are necessary to support the transport of capacity and energy from generation resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

Board: The Nova Scotia Utility and Review Board.

**Bundled Service:** Electrical service taken from NS Power under NS Power tariffs approved by the Board. This takes the form of having generation, transmission, distribution, Ancillary Services and all other items associated with the provision of such service blended or bundled within the rate. For certainty, Bundled Service does not include services taken from NS Power under the Distribution Tariff, the Energy Balancing Service Tariff, the Standby Service Tariff or the Renewable to Retail Market Transition Tariff.

**Customer Information:** Information including, but not limited to, the name, telephone number, mailing address, e-mail address, service address, site contact name, site contact telephone number and information regarding electricity consumption, class of service and payment history of a Retail Customer or an RtR customer, as applicable.

**Demand Side Management Recovery Charges:** Costs of demand side management programs that NS Power is entitled to recover from RtR Customers.

**Distribution System:** NS Power's facilities and equipment (generally rated at less than 69 kV) used to distribute electricity to ultimate usage points such as homes and industries either directly from nearby generators or from interchanges from the Transmission System.

**Distribution System Access:** The services provided by NS Power to the RtR Customer under the Distribution Tariff provide for the connection of the RtR Customer to the Distribution System, but does not include the provision of electricity. These services are

comprised of delivery of electricity on the distribution system and related services including connections, disconnections, line and service extensions, inspection services, meter services, power restoration, meter reading, and customer service, all in accordance with applicable NS Power Regulations.

**Distribution Tariff:** This Distribution Tariff, its terms and conditions and all appendices and attachments referenced herein, including the Distribution Tariff Rate Schedules.

**Distribution Tariff Rate Schedules:** The rate schedules attached hereto as Appendix A which outline the pricing and availability provisions for Distribution System Access.

**DT Charges:** This term shall have the meaning set out in Section 11.2.

**Good Utility Practice:** Those practices, methods or acts (including but not limited to the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry in North America) that at a particular time, in the exercise of reasonable judgment, would have been expected to accomplish the desired result in a manner consistent with regulations, reliability, safety, environmental protection, economy and expedition as applied and practiced in the utility industry with respect to power generation, delivery, purchase and sale.

Licenced Retail Supplier (LRS): A Retail Supplier who:

- (a) holds a valid Retail Supplier Licence; and
- (b) has a valid LRS Participation Agreement executed with NS Power.

For certainty, a Wholesale Customer is not a Licenced Retail Supplier.

**LRS Participation Agreement**: The agreement (and any amendments or supplements thereto) between a Licenced Retail Supplier and NS Power with respect to the sale of renewable low-impact electricity by the LRS in the form approved by the Board.

NS Power: Nova Scotia Power Incorporated.

**NS Power Regulations**: NS Power Regulations approved by the Board pursuant to the *Public Utilities Act* (Nova Scotia) as such regulations may be amended from time to time with the approval of the Board.

**Open Access Transmission Tariff (OATT):** NS Power's Open Access Transmission Tariff, as approved by the Board.

Province: Province of Nova Scotia

**Real Power Losses:** Resistive losses occurring as the result of current flow through primary distribution feeders, distribution transformers, secondary conductors and service drops.

**Reasonable Efforts:** With respect to an action required to be attempted or taken by a party, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a party would use to protect its own interests.

**renewable low-impact electricity:** This term has the same meaning as in the Renewable Electricity Regulations (Nova Scotia).

Retail Supplier: This term has the same meaning as under the Act.

**Retail Supplier Licence:** A Retail Supplier licence issued by the Board in accordance with the Act and regulations made thereunder which authorizes a person to sell renewable low-impact electricity generated within the Province.

**Retail Customer:** This term has the same meaning as under the Act. For certainty, a customer of a municipal utility (as defined under the Act) is not a Retail Customer for the purposes of this Distribution Tariff.

**RtR Customer:** A Retail Customer who is acquiring renewable low-impact electricity from an LRS at an individual RtR Customer Premises and is not receiving Bundled Service from NS Power at that RtR Customer Premises.

**RtR Customer Premises:** A premises that is provided with electricity through a single meter and, as the context requires, either:

- (a) a complete building such as an office building, factory or house; or
- (b) a part of a building such as a suite of offices in an office building or an apartment in an apartment building, and in such cases the part of the building occupied must be contiguous and include no space not controlled by the customer; or

(c) a group of buildings served by one electric service and at its discretion accepted by NS Power as one RtR Customer for LRS billing purposes.

**RtR Customer Transaction Request Application:** A NS Power document to be used by a Licenced Retail Supplier for the purpose of applying to NS Power to accept and process RtR Customer transactions.

Transmission Provider: NS Power.

**Transmission Services:** The services obtained by market participants under the terms and conditions of the OATT to access the Transmission System for the purpose of transporting electric energy and Ancillary Services.

**Transmission System:** The facilities, generally rated at 69 kV and above, owned, controlled or operated by the Transmission Provider that are used to provide transmission service under the OATT.

Wholesale Customer: This term has the same meaning as under the Act.

## 2. PURPOSE OF THE DISTRIBUTION TARIFF

In accordance with the provisions of the Act and the regulations made thereunder, NS Power will, subject to the terms of this Distribution Tariff, provide Distribution System Access to RtR Customers to enable the connection of the RtR Customer to the Distribution System.

## 3. SCOPE OF THE DISTRIBUTION TARIFF

The Distribution Tariff is applicable to all RtR Customers connected to the Distribution System.

This Distribution Tariff is not applicable to RtR Customers directly connected to the Transmission System. Transmission-connected RtR Customers must have their Transmission System access arranged by the LRS under the provisions of the OATT.

The Distribution Tariff outlines the terms and conditions that apply to the provision of Distribution System Access to RtR Customers.

The Distribution Tariff Rate Schedules apply to the provision of Distribution System Access.

# 4. BOARD APPROVAL

The Distribution Tariff has been approved by the Board.

Nothing contained in the Distribution Tariff shall be construed as affecting in any way the right of NS Power to make application to the Board for a change in any rates (including the Distribution Tariff Rate Schedules), terms and conditions, charges, classification of service, rules or regulations.

# 5. **APPENDICES**

For greater certainty, Appendix A attached hereto forms part of the Distribution Tariff.

#### 6. **APPLICABILITY OF NS POWER REGULATIONS TO THE RTR CUSTOMER**

The NS Power Regulations apply to an RtR Customer receiving Distribution System Access.

#### 7. **NS POWER RESPONSIBILITIES**

NS Power shall be responsible for:

- (a) provision of Distribution System Access;
- (b) processing RtR Customer Transaction Request Applications that are received from an LRS on behalf of the RtR Customer;
- (c) providing billing data for the RtR Customer's Distribution Tariff charges for inclusion on the RtR Customer's invoice; and
- (d) acting as the point of contact for RtR Customers for matters related to the provision of Distribution Access Service.

NS Power shall not be responsible to the RtR Customer for the supply of electricity (whether renewable low-impact electricity or otherwise) which the RtR Customer shall be obligated to obtain from an LRS.

NS Power shall not be responsible for monitoring, reviewing or enforcing contracts or arrangements between the RtR Customer and the LRS and shall not be liable for any loss, damages, cost, injury, expense or other liability, whether direct, indirect, consequential or special in nature, howsoever caused, as a result of the LRS's failure to perform its obligations to its RtR Customer(s).

# 8. **RtR CUSTOMER RESPONSIBILITIES**

The RtR Customer shall be responsible for:

(a) payment of all fees and charges arising in connection with the Distribution Tariff;

- (b) compliance with the terms and conditions of the Distribution Tariff and the NS Power Regulations;
- (c) obtaining a supply of renewable low-impact electricity from an LRS; and
- (d) all contractual arrangements with an LRS for the supply of renewable low-impact electricity.

# 9. INTERRUPTION OF DISTRIBUTION SYSTEM ACCESS

Notwithstanding any term of this Distribution Tariff, NS Power shall have the right to suspend or interrupt, in whole or in part, the provision of Distribution System Access for the purpose of safeguarding life or property, for making repairs, changes, renewals, improvements or replacements to the Distribution System provided NS Power shall make Reasonable Efforts to ensure all such suspensions or interruptions are of a minimum duration consistent with the exigencies of the case, provided, however, any such suspensions or interruptions shall not release the RtR Customer from its obligation to pay all charges pursuant to this Distribution Tariff during the period of any such suspensions or interruption and to resume the use of power and energy when the supply is restored.

# 9A. LIMITATION OF LIABILITY

- (a) NS Power shall not be responsible for any claim, loss, cost, liability, action, judgment, suit, proceeding, expense, disbursement or damage whatsoever arising, either directly or indirectly, whether in contract or tort (including negligence) or otherwise, in respect of any interruptions, diversions, curtailments, or other procedures necessary to maintain the efficient and effective operation of the Distribution System or the Transmission System. This would include all Distribution Access Service as permitted by this Distribution Tariff.
- (b) NS Power not liable for damages in respect of any delay, interruption or other partial or complete failure in supplying Distribution System Access where such damages are caused by something which is beyond the ability of the Company to control by reasonable and practicable effort.
- (c) Notwithstanding any other provision herein or applicable law to the contrary, NS Power shall not be liable for:

- i. any indirect or consequential loss or incidental or special damages, including, without limitation, any punitive or aggravated damages;
- ii. any loss of profit, loss of contract, loss of opportunity or loss of goodwill; or
- iii. damages for loss of use,

arising, directly or indirectly, with the performance or delivery of the Distribution Access Service or any other obligations of NS Power under this Distribution Tariff, including but not limited to interruptions, diversions, curtailments or suspensions of any of the Distribution Access Services or from any acts or omissions of its employees and agents, and whether arising in contract, indemnity, tort (including negligence) or any other legal theory.

# 10. **METERING**

# 10.1. **Provision and Ownership**

NS Power will provide, install and seal all revenue class meters as necessary for application of this Distribution Tariff. The meters will be used for determining charges for Distribution System Access under the Distribution Tariff applicable to the RtR Customers.

Interval meters with remote polling capability shall be installed for all RtR Customers.

All meters and associated revenue metering equipment shall remain the property of NS Power. All revenue metering equipment installations shall meet the requirements under the Electricity and Gas Inspection Act regulations in effect at the time.

RtR Customer metering requirements are set out in the NS Power Regulations Section 4 - Metering.

## 10.2. Meter Reading

RtR Customer meter reading requirements are set out in NS Power Regulations Section 5 – Meter Reading and Billing.

## 11. BILLING

## 11.1. Application of Distribution Tariff Rates

The Distribution Tariff amounts payable by the RtR Customer will be calculated by NS Power using the RtR Customer's meter readings and the Distribution Tariff Rate Schedule applicable to the RtR Customer's rate class.

If the operational or consumption characteristics of the RtR Customer change, such that the RtR Customer, in NS Power's determination, no longer qualifies for its current rate class, NS Power shall apply a Distribution Tariff rate appropriate to the RtR Customer's new operational or consumption characteristics.

#### 11.2. **Billing**

Unless NS Power directs otherwise, the RtR Customer shall be invoiced by the LRS and will pay the LRS for any charges or fees, inclusive of all applicable taxes, owing by the RtR Customer to NS Power under this Distribution Tariff (DT Charges).

For greater certainty, the DT Charges shall include:

- (a) All fees and charges for the provision of Distribution System Access under this Distribution Tariff;
- (b) Demand Side Management Recovery Charges;
- (c) any applicable costs incurred by NS Power resulting from performance of repairs, changes, renewals, improvements or replacements outside of normal working hours, at the RtR Customer's request; and
- (d) Other items as may be approved by the Board.

NS Power may, at its discretion, include fees for any special customer services provided at the LRS's or the RtR Customer's request, pursuant to NS Power Regulation 7.1 - Schedule of Charges.

The RtR Customer consents to NS Power providing the LRS with Customer Information for the purposes of facilitating the billing arrangements between the LRS and the RtR Customer.

The RtR Customer acknowledges and agrees that unless NS Power directs otherwise, it shall be responsible to the LRS with respect to all matters relating to the payment and collection of the DT Charges and any other amounts owing by it under this Distribution Tariff.

The RtR Customer shall not make or bring any claim, action or demand against NS Power arising out of or in any way attributable to the collection of the DT Charges by the LRS, its servants, agents or employees.

## 11.3. **Real Power Losses**

Distribution System Real Power Losses associated with Distribution System Access are incorporated in the Distribution Tariff rates applicable to each RtR Customer's rate class. The RtR Customer is responsible for the costs of such Real Power Losses.

# 12. DISCONTINUANCE OF DISTRIBUTION SYSTEM ACCESS BY NS POWER

For certainty, NS Power may discontinue Distribution System Access to an RtR Customer in accordance with the requirements of NS Power Regulations Section 6 – Collection of Accounts, Regulations 6.1 - Disconnection of Electric Service, 6.2 - Rules Governing Disconnection and 6.3 - Medical Emergency.

# **APPENDIX A: DISTRIBUTION TARIFF RATE SCHEDULES**

#### **DISTRIBUTION TARIFF RATES\***

\*Note: For certainty, all capitalized terms shall, unless otherwise defined herein, have the meanings ascribed thereto in Distribution Tariff.

#### APPLICABILITY

This schedule provides charges for Distribution System Access applicable to distributionconnected RtR Customers receiving supply of renewable low-impact electricity from a Licenced Retail Supplier as provided for under the Electricity Act (Nova Scotia).

#### CHARGES

| Rate Class                                | Customer<br>Charge | Distribution<br>Charge | Demand<br>Charge | Minimum<br>Monthly<br>Charge | Transformer<br>Ownership<br>Credit |
|---|--------------------|------------------------|------------------|------------------------------|------------------------------------|
|   | \$/month           | ¢/kWh                  | \$/kVA           | \$/month                     | \$/kVA                             |
| Domestic Service                          | 10.83              | 2.549                  | 0.000            | 10.83                        | 0                                  |
| Domestic Service Time of Day              | 10.83              | 2.549                  | 0.000            | 10.83                        | 0                                  |
| Small General                             | 12.65              | 2.362                  | 0.000            | 12.65                        | 0                                  |
| General (1)                               | 0                  | 0.000                  | 5.458            | 12.65                        | -0.32                              |
| Large General (2)                         | 0                  | 0.000                  | 3.361            | 12.65                        | -0.32                              |
| Small Industrial                          | 0                  | 0.000                  | 4.494            | 12.65                        | -0.32                              |
| Medium Industrial                         | 0                  | 0.000                  | 3.496            | 12.65                        | -0.32                              |
| Large Industrial Firm (2) Rate<br>Code 23 | 0                  | 0.000                  | 2.430            | 12.65                        | -0.32                              |
| Outdoor Recreational Light<br>Rate        | 0                  | 3.551                  | 0.000            | 0                            | 0                                  |
| Unmetered Service Rates                   | 0                  | 0.000                  | 11.960           | 17.51                        | 0                                  |
| Miscellaneous Small Loads                 | 0                  | 0.000                  | 11.960           | 17.51                        | 0                                  |

#### Footnotes

(1) Demand Charges and credits are applicable to kilowatt (kW) demand.

(2) Demand Charges and credits are applicable to kilovolt-ampere of maximum (kVA) demand of the current month or the maximum actual demand of the previous December, January or February occurring in the previous eleven months regardless whether service was taken under the bundled or unbundled service.

## **DISTRIBUTION TARIFF RATES\***

#### MAXIMUM PER KWH CHARGE/MINIMUM BILL

The same maximum per kWh charges and minimum bills will apply as stated in tariffs for NS Power Bundled Service for each Rate Class listed above.

#### AVAILABILITY

The same Availability conditions will apply as stated in tariffs for NS Power Bundled Service for each Rate Class listed above, saving and excepting the Interruptible Rider to the Large Industrial Tariff (Rate Code 25) which will not apply.

#### **SPECIAL CONDITIONS**

The same Special Conditions will apply as stated in tariffs for NS Power Bundled Service for each Rate Class listed above, saving and excepting the Interruptible Rider to the Large Industrial Tariff (Rate Code 25) which will not apply.

#### **DISTRIBUTION TARIFF RATES\***

#### (A) STREET AND AREA LIGHTING

#### RATES

#### (1) **INCANDESCENT**

| Rate Coo   | de Watts                         | kWh/Mo.               | \$/Mo.           | Other |
|------------|----------------------------------|-----------------------|------------------|-------|
| a)         | Operating, Maintenance and       | l Capital (Full Charg | <u>(e)</u>       |       |
| 001<br>002 | 300 and less<br>Greater than 300 | 97<br>154             | \$10.78<br>13.09 |       |
| b)         | Operating Only                   |                       |                  |       |
| 003        | 300 and Less                     | 97                    | 3.74             |       |

#### (2) MERCURY VAPOUR

| Rate C | Code Watts             | kWh/Mo.                 | \$/Mo.    | Other      |
|--------|------------------------|-------------------------|-----------|------------|
| a)     | Operating, Maintenance | and Capital (Full Charg | <u>e)</u> |            |
|        |                        |                         |           |            |
| 100    | 100                    | 43                      | \$10.03   |            |
| 101    | 125                    | 52                      | 11.88     |            |
| 102    | 175                    | 69                      | 10.77     |            |
| 103    | 250                    | 97                      | 12.59     |            |
| 104    | 400                    | 154                     | 14.86     |            |
| 105    | 700                    | 260                     | 20.14     |            |
| 106    | 1000                   | 363                     | 25.15     |            |
| 107    | 250                    | 212                     | 17.74     | Continuous |
|        |                        |                         |           | Operation  |
|        |                        |                         |           |            |
|        |                        |                         |           |            |
| b)     | Operating and Maintena | nce Only                |           |            |
|        |                        |                         |           |            |
| 201    | 125                    | 52                      | \$8.87    |            |
| 202    | 175                    | 69                      | 7.80      |            |
| 203    | 250                    | 97                      | 8.90      |            |
| 204    | 400                    | 154                     | 11.09     |            |
| 205    | 700                    | 260                     | 15.19     |            |
| 206    | 1000                   | 363                     | 19.17     |            |
|        |                        |                         |           |            |
| c)     | <b>Operating Only</b>  |                         |           |            |
|        |                        |                         |           |            |
| 301    | 125                    | 52                      | \$2.00    |            |
| 302    | 175                    | 69                      | 2.64      |            |
| 303    | 250                    | 97                      | 3.74      |            |
| 304    | 400                    | 154                     | 5.93      |            |

PROPOSED: September 1, 2015

**EFFECTIVE:** 

#### **DISTRIBUTION TARIFF RATES\***

| 305 | 700  | 260 | 10.03 |
|-----|------|-----|-------|
| 306 | 1000 | 363 | 14.01 |

#### (3) FLUORESCENT

| Rate C | ode Bulb Length        | Number of<br>Bulbs/Unit  | kWh/Mo.      | \$/Mo.  | Other |
|--------|------------------------|--------------------------|--------------|---------|-------|
| a)     | Operating, Maintenance | e and Capital (Full Char | r <u>ge)</u> |         |       |
| 110    | 24                     | 2                        | 30           | 13.91   |       |
| 111    | 48                     | 2                        | 85           | 16.28   |       |
| 112    | 72                     | 2                        | 116          | 17.96   |       |
| 113    | 72                     | 4                        | 222          | 23.16   |       |
| 114    | 96                     | 1                        | 47           | 15.08   |       |
| 115    | 72                     | 1                        | 60           | 15.21   |       |
| 116    | 48                     | 4                        | 166          | 19.99   |       |
|        |                        |                          |              |         |       |
| b)     | Operating and Mainten  | ance Only                |              |         |       |
| 213    | 72                     | 4                        | 222          | \$18.86 |       |
| 214    | 96                     | 1                        | 47           | 12.11   |       |
| 215    | 72                     | 1                        | 60           | 12.63   |       |
| 216    | 48                     | 4                        | 166          | 16.74   |       |
| 217    | 48                     | 1                        | 49           | 12.18   |       |
| 218    | 48                     | 2                        | 85           | 13.59   |       |
| c)     | Operating Only         |                          |              |         |       |
| 330    | 35                     | 4                        | 47           | 1.80    |       |

#### **DISTRIBUTION TARIFF RATES\***

#### (4) FLUORESCENT CROSSWALK

#### a) <u>Continuous Burning - Operating Only</u>

| 117 | 72 | 4 | 486 | \$8.56 |
|-----|----|---|-----|--------|
| 118 | 24 | 2 | 66  | 1.15   |
| 119 | 48 | 4 | 364 | 6.43   |
| 120 | 96 | 2 | 254 | 4.49   |
| 150 | 96 | 4 | 613 | 10.80  |

PROPOSED: September 1, 2015

**EFFECTIVE:** 

#### **DISTRIBUTION TARIFF RATES\***

#### (4) FLUORESCENT CROSSWALK (cont.)

| b) | Photocell Operation - Operating Only |
|----|--------------------------------------|
|    |                                      |

| 310 | 24 | 2 | 30  | \$1.17 |
|-----|----|---|-----|--------|
| 311 | 48 | 4 | 166 | 6.43   |
| 312 | 72 | 2 | 116 | 4.50   |
| 313 | 72 | 4 | 222 | 8.55   |
| 314 | 96 | 1 | 47  | 1.80   |
| 315 | 72 | 1 | 60  | 2.32   |
| 350 | 96 | 4 | 280 | 10.82  |

#### (5) LOW PRESSURE SODIUM

| Rate | Code             | Watts             | kWh/Mo.               | \$/Mo.  | Other |
|------|------------------|-------------------|-----------------------|---------|-------|
| a)   | Operating        | , Maintenance and | Capital (Full Charge) |         |       |
| 130  |                  | 135               | 60                    | \$23.58 |       |
| 131  |                  | 180               | 80                    | 26.94   |       |
| 132  |                  | 90                | 45                    | 22.99   |       |
| b)   | <u>Operating</u> | and Maintenance   | <u>Only</u>           |         |       |
| 231  |                  | 180               | 80                    | 18.56   |       |
| c)   | <u>Operating</u> | Only              |                       |         |       |
| 331  |                  | 180               | 80                    | 3.09    |       |

#### (6) HIGH PRESSURE SODIUM

| a)  | Operating, Maintenance and | Capital (Full Charge) |         |                      |
|-----|----------------------------|-----------------------|---------|----------------------|
| 121 | 250                        | 100                   | \$12.23 |                      |
| 122 | 400                        | 150                   | 14.28   |                      |
| 123 | 70                         | 32                    | 9.41    |                      |
| 124 | 100                        | 45                    | 9.93    |                      |
| 125 | 150                        | 65                    | 10.89   |                      |
| 126 | 100                        | 99                    | 15.08   | Continuous Operation |

## EFFECTIVE:

#### **DISTRIBUTION TARIFF RATES\***

#### (6) **HIGH PRESSURE SODIUM** (cont'd)

| Rate ( | Code Watts                | kWh/Mo. | \$/Mo. | Other |
|--------|---------------------------|---------|--------|-------|
| b)     | Operating and Maintenance | Only    |        |       |
| 221    | 250                       | 100     | \$9.02 |       |
| 222    | 70                        | 32      | 6.39   |       |
| 223    | 100                       | 45      | 6.89   |       |
| 224    | 150                       | 65      | 7.67   |       |
| c)     | Operating Only            |         |        |       |
| 321    | 250                       | 100     | \$3.86 |       |
| 322    | 70                        | 32      | 1.23   |       |
| 323    | 100                       | 45      | 1.73   |       |
| 324    | 150                       | 65      | 2.51   |       |
| 326    | 400                       | 150     | 5.79   |       |
| 327    | 500                       | 183     | 7.07   |       |
| 328    | 1000                      | 363     | 14.02  |       |
| 329    | 1500                      | 500     | 19.30  |       |

#### (7) **METALLIC ADDITIVE**

| a)                              | Operating, Maintenance and       | Capital (Full Charge)         |   |
|---------------------------------|----------------------------------|-------------------------------|---|
| 140                             | 400                              | 150                           | \$17.85                                 |
| 141                             | 1000                             | 360                           | 31.83                                   |
| 142                             | 250                              | 100                           | 19.98                                   |
| 143                             | 150                              | 67                            | 18.70                                   |
| 144                             | 100                              | 50                            | 18.05                                   |
| b)                              | Operating Only                   |                               |   |
|                                 |                                  |                               |   |
| 341                             | 1000                             | 360                           | \$13.89                                 |
| 341<br>342                      | 1000<br>400                      | 360<br>150                    | \$13.89<br>5.79                         |
| 341<br>342<br>343               | 1000<br>400<br>250               | 360<br>150<br>100             | \$13.89<br>5.79<br>3.86                 |
| 341<br>342<br>343<br>344        | 1000<br>400<br>250<br>175        | 360<br>150<br>100<br>75       | \$13.89<br>5.79<br>3.86<br>2.89         |
| 341<br>342<br>343<br>344<br>345 | 1000<br>400<br>250<br>175<br>150 | 360<br>150<br>100<br>75<br>67 | \$13.89<br>5.79<br>3.86<br>2.89<br>2.58 |

#### **DISTRIBUTION TARIFF RATES\***

# (8) LIGHT EMITTING DIODE (LED) LESS THAN 30 WATTS FOR TRAFFIC CONTROL SIGNALS ONLY

| Rate Code | \$/Mo. | Other            |
|-----------|--------|------------------|
| 530       | \$0.06 | Non – Continuous |
| 531       | \$0.09 | Continuous       |

#### (9) LIGHT EMITTING DIODE (LED) – Operating Only

| Rate Code | Watts | kWh/Mo. | \$/Mo. |
|-----------|-------|---------|--------|
| 532       | 44    | 15      | \$0.58 |
| 533       | 66    | 22      | 0.85   |
| 534       | 88    | 29      | 1.12   |
| 535       | 92    | 31      | 1.20   |
| 536       | 105   | 35      | 1.35   |
| 537       | 170   | 57      | 2.20   |
| 539       | 110   | 37      | 1.43   |
| 540       | 65    | 22      | 0.85   |
| 541       | 55    | 18      | 0.69   |
| 542       | 83    | 28      | 1.08   |
| 543       | 48    | 16      | 0.62   |
| 544       | 72    | 24      | 0.93   |

#### (10) INTERIM LIGHT EMITTING DIODE (LED) – Operating & Capital Only\*

| Rate Code | Watts | kWh/Mo. | \$/Mo. | Other |
|-----------|-------|---------|--------|-------|
| 615       | 44    | 15      | \$7.85 |       |
| 616       | 55    | 18      | 7.96   |       |
| 623       | 28    | 9       | 7.62   |       |
| 624       | 50    | 17      | 7.93   |       |
| 625       | 72    | 24      | 8.20   |       |
| 626       | 100   | 33      | 8.54   |       |
| 627       | 200   | 67      | 9.86   |       |

<sup>&</sup>lt;sup>\*</sup> While fixture maintenance costs associated with LED streetlights may occur, this component is currently not reflected in the rates.

| PROPOSED DISTRIBUTION T                          | AKIFF AS  | BASED O            | IN 2014 COSS                     | )         |
|--|---|--------------------|----------------------------------|-----------|
| RESIDENT   | IAL TARII                                       | FFS                |                                  |           |
| Domostia Somios Doto                             | :4a   | Current<br>Bundled | Proposed<br>Distribution<br>Boto | 9/ shanga |
| Domestic Service Kate                            |   | 10 820             | <b>Kale</b>                      | % cnange  |
| Energy Charge                                    | ۶/mo<br>¢/kWh                                   | 10.830             | 2.549                            | -82.19    |
|  | ,   |                    |                                  |           |
| Domestic Service TOD Rate                        | ¢ /   | 10.020             | 10.920                           | 40.50     |
| Customer Charge                                  | \$/mo   | 18.820             | 10.830                           | -42.59    |
| December, January & Feb: energy charge           | - /I-XX71-                                      | 19 (00             | 2.540                            | 96.20     |
| on-peak  | ¢/KWh   | 18.609             | 2.549                            | -80.3%    |
| snoulder   | ¢/KWI   | 14.251             | 2.549                            | -82.19    |
| Other months, anarray sharras                    | ¢/KWN   | 7.324              | 2.549                            | -03.29    |
| Other months: energy charge                      | d/l-Wh  | 14 251             | 2 540                            | 82 10     |
| off peak   | $\varphi/\mathbf{K}$ W II $\phi/\mathbf{k}$ W h | 7 324              | 2.549                            | -02.17    |
| 011-peak   | ¢/K ₩ 11  | 7.524              | 2.349                            | -05.27    |
| COMMERC  | IAL TARI  | FFS                |                                  |           |
|  |   | Current            | Proposed                         |           |
|  |   | Bundled            | Distribution                     |           |
| Small General Rate                               | units   | Rate               | Rate                             | % change  |
| Customer Charge                                  | \$/mo   | 12.650             | 12.650                           | 0.0%      |
| Energy Charge, block I (first 200 kWhs)          | ¢/kWh   | 15.092             | 2.362                            | -84.39    |
| Energy Charge, block 2                           | ¢/kwn   | 13.278             | 2.362                            | -82.29    |
| General Rate                                     |   |                    |                                  |           |
| Demand Charge                                    | \$/kW   | 10.497             | 5.458                            | -48.09    |
| Energy Charge, block 1 (first 200kWh * demand)   | ¢/kWh   | 11.208             | -                                | -100.09   |
| Energy Charge, block 2                           | ¢/kWh   | 7.929              | -                                | -100.09   |
| Transformer Ownership Credit                     | \$/kVA  | (0.320)            | (0.320)                          | 0.0%      |
| Large General Rate                               |   |                    |                                  |           |
| Demand Charge (Ratcheted)                        | \$/kVA  | 13.345             | 3.361                            | -74.8%    |
| Energy Charge                                    | ¢/kWh   | 8.029              | -                                | -100.09   |
| Transformer Ownership Credit                     | \$/kVA  | (0.320)            | (0.320)                          | 0.09      |
| INDUSTRI   | AL TARIF  | FS                 |                                  |           |
|  |   | Current            | Proposed                         |           |
|  |   | Bundled            | Distribution                     |           |
| Small Industrial Rate                            | units   | Rate               | Rate                             | % change  |
| Demand Charge                                    | \$/kVA  | 7.714              | 4.494                            | -41.79    |
| Energy Charge, block 1 (first 200 kWhs * demand) | ¢/kWh   | 10.090             | -                                | -100.09   |
| Energy Charge, block 2                           | ¢/kWh   | 7.707              | -                                | -100.09   |
| Transformer Ownership Credit                     | \$/kVA  | (0.320)            | (0.320)                          | 0.0%      |
| Medium Industrial Rate                           |   |                    |                                  |           |
| Demand Charge                                    | \$/kVA  | 12.501             | 3.496                            | -72.09    |
| Energy Charge                                    | ¢/kWh   | 7.241              | -                                | -100.09   |
| Turn of a march of Carality                      | ф/I Т7 А  | (0, 220)           | (0.220)                          | 0.00      |

| I arge Industrial Rate  |                                  |  |   |   |
|---|----------------------------------|--|---|---|
| Demand Charge (Ratcheted)   | \$/kVA                           | 11 995   | 2 4 3 0   | -79.7%                                  |
| Energy Charge to firm Customers   | ¢/kVh                            | 7.620  | -   | -100.0%                                 |
| Energy Charge to interruptible customers  | <i>p</i> /11//11                 | 7.222  | -   | -100.0%                                 |
| Transformer Ownership Credit  | \$/kVA                           | (0.320)  | (0.320)   | 0.0%                                    |
| Interruptible Credit  | \$/kVA                           | (3.430)  | (3.430)   | 0.0%                                    |
| ОТНЕ  | R TARIFFS                        |  |   |   |
|   |                                  |  |   |   |
|   | _                                | Current  | Proposed<br>Distribution                            |   |
| Outdoor Recreational Light Rate   | –<br>units                       | Current<br>Bundled<br>Rate                               | Proposed<br>Distribution<br>Rate                    | % change                                |
| <b>Outdoor Recreational Light Rate</b><br>Energy Charge   | units<br>¢/kWh                   | Current<br>Bundled<br>Rate<br>14.354                     | Proposed<br>Distribution<br>Rate<br>3.551           | % change<br>-75.3%                      |
| Outdoor Recreational Light Rate<br>Energy Charge<br>Miscellaneous Small Loads Rate  | <b>units</b><br>¢/kWh            | Current<br>Bundled<br>Rate<br>14.354                     | Proposed<br>Distribution<br>Rate<br>3.551           | % change<br>-75.3%                      |
| <b>Outdoor Recreational Light Rate</b><br>Energy Charge<br><b>Miscellaneous Small Loads Rate</b><br>Demand Charge   | units<br>¢/kWh<br>\$/kW          | Current<br>Bundled<br>Rate<br>14.354                     | Proposed<br>Distribution<br>Rate<br>3.551<br>11.960 | % change<br>-75.3%<br>1.55%             |
| <b>Outdoor Recreational Light Rate</b><br>Energy Charge<br><b>Miscellaneous Small Loads Rate</b><br>Demand Charge<br>Energy Charge, block 1 (first 200kWh * demand) | units<br>¢/kWh<br>\$/kW<br>¢/kWh | Current<br>Bundled<br>Rate<br>14.354<br>11.777<br>13.467 | Proposed<br>Distribution<br>Rate<br>3.551<br>11.960 | % change<br>-75.3%<br>1.55%<br>-100.00% |

September 1, 2015 Note: this is a revision to the

Spreadsheet issued as Attachment D on May 21, 2015.

Refer to Multeese DR-21 issued July 3, 2015
| Proposed Distribution Tariffs | Distrib               | utic     | on Usag       | e in | KW        | าร    | Dema           | Ind       | l in kWs             | or        | kVa    | E                           | Base         | e Cha    | rge      | 9      | Р         | ROPOSED                   |
|-------------------------------|-----------------------|----------|---------------|------|-----------|-------|----------------|-----------|----------------------|-----------|--------|-----------------------------|--------------|----------|----------|--------|-----------|---------------------------|
| Above-the-line Classes        | Energy<br>in GWh<br>- | Pe<br>Ch | r KWh<br>arge | Reve | enue      |       | GWS or<br>GVAS | Ch<br>KV  | arge per<br>V or KVA | R         | evenue | Billmonths<br>(in millions) | Base<br>Chai | e<br>rge | R        | evenue |           | RATES<br>FORECAST<br>2014 |
| Residential Sector            |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Non-ETS                       | 3,993.3               | \$       | 0.02549       | \$   |           | 101.8 | NA             |           | NA                   |           | NA     | 5.1                         | \$           | 10.8     | 3 \$     | 55.4   | \$        | 157.2                     |
| ETS                           | 223.2                 | \$       | 0.02549       | \$   |           | 5.7   | NA             |           | NA                   |           | NA     | 0.1                         | \$           | 10.8     | <u>3</u> | 1.6    | \$        | 7.3                       |
| Total                         | 4,216.5               |          |               | \$   |           | 107.5 | NA             |           | NA                   |           | NA     | 5.3                         |              |          | \$       | 56.99  | \$        | 164.5                     |
| Commercial Sector             |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Small General                 | 236.7                 | \$       | 0.02362       | \$   |           | 5.6   | -              |           |                      | \$        | -      | 0.3                         | \$           | 12.6     | 5\$      | 3.6    | \$        | 9.2                       |
| General Demand                | 2,448.7               |          | NA            |      | NA        |       | 7.0            | \$        | 5.458                | \$        | 38.2   | -                           | \$           | -        | \$       | ; -    | \$        | 38.2                      |
| Large General                 |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Without Trans. Own.           | 245.8                 |          | NA            |      | NA        |       | 0.5            | \$        | 3.361                | \$        | 1.7    |                             |              |          |          |        | \$        | 1.7                       |
| With Trans. Own.              | 133.8                 |          | <u>NA</u>     |      | <u>NA</u> |       | 0.3            | \$        | 3.041                | \$        | 1.0    |                             |              |          |          |        | <u>\$</u> | 1.0                       |
| Sub-total                     | 379.6                 |          | NA            |      | NA        |       | 0.9            |           |                      | \$        | 2.8    |                             |              |          |          |        | <u>\$</u> | 2.8                       |
| Total                         | 3,065.0               |          |               | \$   |           | 5.6   | 7.9            |           |                      | \$        | 41.0   | 0.3                         |              |          | \$       | 3.6    | \$        | 50.2                      |
| Industrial Sector             |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Small Industrial              | 255.9                 |          | NA            |      | NA        |       | 1.0            | \$        | 4.494                | \$        | 4.5    |                             |              |          |          |        | \$        | 4.5                       |
| Medium Industrial             | 495.4                 |          | NA            |      | NA        |       | 1.4            | \$        | 3.496                | \$        | 5.0    |                             |              |          |          |        | \$        | 5.0                       |
| Large Industrial Firm         |                       |          | NA            |      | NA        |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Without Trans. Own.           | 46.3                  |          | NA            |      | NA        |       | 0.1            | \$        | 2.430                | \$        | 0.3    |                             |              |          |          |        | \$        | 0.3                       |
| With Trans. Own.              |                       |          | <u>NA</u>     |      | NA        |       |                | <u>\$</u> | 2.110                | <u>\$</u> | _      |                             |              |          |          |        | \$        |                           |
| Sub-total                     | 46.3                  |          | NA            |      | NA        |       | 0.1            |           |                      | \$        | 0.3    |                             |              |          |          |        | \$        | 0.3                       |
| Large Industrial Interr.      |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Without Trans. Own.           | 176.4                 |          | NA            |      | NA        |       | 0.5            | \$        | 2.430                |           | 1.2    |                             |              |          |          |        | \$        | 1.2                       |
| With Trans. Own.              | 52.8                  |          | <u>NA</u>     |      | <u>NA</u> |       | 0.3            | <u>\$</u> | 2.110                |           | 0.6    |                             |              |          |          |        | \$        | 0.6                       |
| Sub-total                     | 229.1                 |          | NA            |      | NA        |       | 0.8            |           |                      |           | 1.8    |                             |              |          |          |        | \$        | 1.8                       |
| Total Large Industrial        | 275.4                 |          | NA            |      | NA        |       | 0.89           |           |                      | \$        | 2.1    |                             |              |          |          |        | \$        | 2.1                       |
| Total Industrial              | 1,026.7               |          | NA            |      | NA        |       | 3.3            |           |                      | \$        | 11.6   | 0.0                         | )            |          |          | 0.0    | \$        | 11.6                      |
| Other                         |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Unmetered <sup>1,2</sup>      |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        |           |                           |
| Electric Service Only         | 98.2                  | \$       | 0.03551       | \$   |           | 3.5   |                |           |                      |           |        |                             |              |          |          |        | \$        | 3.5                       |
| Street light Fixtures         |                       |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        | \$        | 8.8                       |
| Total                         | _                     |          |               |      |           |       |                |           |                      |           |        |                             |              |          |          |        | \$        | 12.2                      |
| Total Above the line          | 9 400 5               |          |               | ¢    |           | 116.0 | 44.0           |           |                      | ¢         | E0.0   |                             |              |          | ~        | 60.0   | ¢         | 220 E                     |
|                               | 0,400.5               |          |               | Φ    |           | 0.011 | 11.Z           |           |                      | φ         | 52.0   | 5.5                         |              |          | \$       | 0.00   | φ         | 230.3                     |

(1) Illustrates energy for unmetered customers, as well as LED and Non-LED Streetlights

(2) Per kWh charge is not applicable as the class is made up of a number of rates

Renewable to Retail NSUARB IR-8 Attachment 3 Page 3 of 3 Renewable to Retail Application Appendix 17A Page 3 of 3

# Nova Scotia Power Inc.

# **2015 Renewable to Retail Proceeding**

# **Distribution Tariff Rate Strawman Report**

DRAFT – subject to NS Power management review and approval

May 21, 2015



DRAFT - Subject to NS Power Management review and approval

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#### ATTACHMENTS

### 1 2

| Attachment | А | Draft Distribution Tariff                                 |
|------------|---|---|
| Attachment | В | Draft Distribution Tariff Rates                           |
| Attachment | С | Cost of Service Study Model ELECTRONIC                    |
| Attachment | D | Comparison of Bundled Rates and Distribution Tariff Rates |
| Attachment | Е | Proof of Revenue  |

3

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| 1  | 1.0 | INTRODUCTION  |
|----|-----|---|
| 2  |     |   |
| 3  |     | This Strawman Report discusses the process and methodology used by Nova Scotia                  |
| 4  |     | Power (NS Power, the Company) in development of a distribution tariff (DT) applicable           |
| 5  |     | to Renewable to Retail (RtR) Customers <sup>1</sup> .   |
| 6  |     |   |
| 7  |     | The DT is being developed in consultation with stakeholders consistent with s. 3G (1) of        |
| 8  |     | the Electricity Act (Nova Scotia) (Act). The Company is seeking to arrive at a consensus        |
| 9  |     | among the Company and stakeholders in advance of the Company's filing with the                  |
| 10 |     | UARB.   |
| 11 |     |   |
| 12 |     | The DT is intended for use by distribution-connected RtR customers. It includes terms,          |
| 13 |     | conditions and rates under which Distribution System Access will be provided. The DT            |
| 14 |     | design is consistent with the cost allocation and tariff design included in rates for           |
| 15 |     | customers who continue to take bundled electric service from NS Power.                          |
| 16 |     |   |
| 17 | 1.1 | Terms and Conditions  |
| 18 |     |   |
| 19 |     | The DT contains both rates and terms and conditions. NS Power based the terms and               |
| 20 |     | conditions in the DT on existing approved documents, adjusting them for the unique              |
| 21 |     | features and participants in the Renewable to Retail Market. RtR Customers who take             |
| 22 |     | Distribution System Access are also subject to NS Power Regulations <sup>2</sup> as applicable. |
| 23 |     |   |
|    |     |   |

<sup>&</sup>lt;sup>1</sup> A RtR Customer is a Retail Customer purchasing renewable energy from a Licensed Retail Supplier. A RtR customer is a subset of "Retail Customer" defined under s. 2(1) of the *Electricity Act* (Nova Scotia) as "...a person who uses, for the person's own consumption in the Province, electricity that the person did not generate." . Licensed Retail Suppliers (LRS) LRSs are persons who are licensed by the Nova Scotia Utility and Review Board (UARB, Board) to sell renewable low-impact electricity, as provided for under the Electricity Act (Nova Scotia) (Act).

<sup>&</sup>lt;sup>2</sup> NS Power Regulations are approved by the UARB and may be found at <u>http://www.nspower.ca/en/home/about-us/electricity-rates-and-regulations/rates/default.aspx</u>

#### **2015 Renewable to Retail Proceeding – Distribution Tariff Strawman Report** DRAFT – Subject to NS Power Management review and approval

1 Attachment A contains the Draft Distribution Tariff Terms and Conditions. 2 Attachment B contains the Draft Distribution Tariff Rates. 3 4 RtR Customers purchase electricity from Licensed Retail Suppliers (LRS) who supply 5 renewable low-impact electricity generated in Nova Scotia. Each LRS will be licensed 6 by the UARB and will be subject to other tariffs, rules and procedures governing use of 7 the NS Power system and NS Power tariffed services. Those tariffs, rules and procedures 8 will also be developed in consultation with stakeholders and submitted for approval to the 9 UARB. 10 11 1.2 Rates 12 13 In the development of the DT Rates, the Company sought to leverage the existing 14 ratemaking processes used in the Open Access Transmission Tariff (OATT) and General 15 Rate Applications (GRA) while seeking an appropriate balance among competing 16 ratemaking objectives. The Company sought to design rates which are cost based, fairly 17 apportion cost responsibilities among customer classes and customers within each class, are simple and transparent and do not negatively affect NS Power's bundled service 18 19 customers. 20

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#### 1 2.0 DISTRIBUTION TARIFF RATE DEVELOPMENT PROCESS

## 3 4 5 6 7

2

The proposed form of the DT Rates is provided as **Attachment B**. The DT defines the terms, conditions and prices under which eligible distribution-connected RtR Customers can gain access to NS Power's distribution system in the Renewable to Retail Market created under the Act. In the development of the DT, NS Power employed a sequential three step process, used in regulated, cost causative ratemaking, as illustrated in Figure 1.

#### 8 9

#### Figure 1: Overview of the Steps taken in the Development of Distribution Rates



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| 1  | The Company used the most recent Cost of Service Study <sup>3</sup> (COSS) which employed the |
|----|---|
| 2  | 2014 Test Year revenue requirement from the 2013 GRA Compliance Filing <sup>4</sup> , for the |
| 3  | determination of class responsibilities for investments and costs of distribution and retail  |
| 4  | areas. The COSS is provided as Attachment C. The COSS used the following three                |
| 5  | step process:   |
| 6  |   |
| 7  | • Functionalization of investments and costs by the areas of Distribution and Retail          |
| 8  | • Classification of functionalized costs between demand-related and customer-                 |
| 9  | related services  |
| 10 | • Allocation of classified costs among the eligible rate classes                              |
| 1  |   |
| 12 | The proposed approach to the recovery of distribution and retail costs aligns with those in   |
| 13 | use in other North American jurisdictions <sup>5</sup> .                                      |
|    |   |

<sup>&</sup>lt;sup>3</sup> The Cost of Service Study was filed as part of NS Power's Compliance filing in the Cost of Service proceeding, M05473, July 31, 2014. Please note, several elements of COS were deferred after the Cost of Service Decision for further study and consultation, which may change the total revenue requirement of the Distribution and Retail area and individual class cost responsibilities. Please refer to NS Power 2014 Cost of Service Study Progress Update M06555, Exhibits N-1 and N-2.

<sup>&</sup>lt;sup>4</sup> 2013 General Rate Application, P-893/M04972, NS Power Compliance Filing, January 16, 2013.

<sup>&</sup>lt;sup>5</sup> NS Power reviewed Distribution Tariffs from the following utilities: Enmax Power Corporation, EPCOR Utilities Incorporated, ATCO Electric, Milton Hydro Distribution Inc., Appalachian Power Company, Ohio Power Company, Pacific Gas and Electric Company, Southern California Edison.

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#### 1 **3.0 DISTRIBUTION AND RETAIL SERVICES**

### 2 3

4

5

The substantial majority of customers can accept power only at much lower voltage levels of service than that used in transmission.<sup>6</sup> The purpose of the distribution system is, therefore, to connect customers served at a distribution voltage level with the transmission grid.

6 7

8 The Primary Distribution System routes power closer to the majority of customers at 9 moderate voltages in order to minimize electricity losses. Using moderate voltage levels 10 for Primary, while approaching the voltage levels which most customers can accept, 11 reduces amperage and therefore losses. NS Power's Primary Level Distribution System 12 has nominal voltages of 4 kV, 12 kV and 25 kV. There are about 350 customers served 13 at a primary voltage level representing about 20% of the total distribution load. The 14 remaining 80% of the distribution system load enters the secondary voltage lines via 15 distribution line transformers to be delivered to half a million NS Power customers. The 16 assets supporting this last activity consist of Secondary Service conductors and poles and 17 the customers' meters. The majority of NS Power customers take service directly from the distribution transformer low voltage bushings or from secondary lines originating at 18 19 the transformer.

20

NS Power segments its investments (rate base) and costs into four functional areas: Generation, Transmission, Distribution, and Retail. The Distribution Tariff applies only costs from the Distribution and Retail areas, not Generation or Transmission. Costs relating to Generation and Transmission are covered in separate tariffs applicable to the Licensed Retail Supplier. The Distribution function is separated into three voltagedifferentiated service levels:

27

28

Bulk Power Substations

<sup>&</sup>lt;sup>6</sup> There are currently ten bundled service transmission-connected customers at NS Power.

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| 1  | • Primary Service (4-25 kV)   |
|----|---|
| 2  | • Secondary Service (less than 4 kV).   |
| 3  |   |
| 4  | The Cost of Service (COS) model's functionalization approach also includes a "direct"         |
| 5  | component that contains rate base and cost elements attributed to street lighting services    |
| 6  | under the Unmetered Service rate class. General Plant and Property is apportioned             |
| 7  | among the four functional areas based on their relative shares in the total plant in service. |
| 8  | Working Capital is apportioned among the functional areas on the basis of their relative      |
| 9  | shares in the total plant in service or operational costs already recorded by functional      |
| 10 | areas. For the purpose of the DT analysis, streetlight assets and costs are kept separate     |
| 11 | from the remaining distribution rate bases and costs.   |
| 12 |   |
| 13 | The current COSS sub-functionalizes its distribution investment categories in the             |
| 14 | following manner:   |
| 15 |   |

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#### Figure 2: Summary of Distribution Plant in Service by Voltage Service Levels

#### (Thousands of dollars)

3

1

2

| DIS                       |                                       |                |               |                |  |  |  |
|---------------------------|---------------------------------------|----------------|---------------|----------------|--|--|--|
| FOR THE YEA               | FOR THE YEAR ENDING DECEMBER 31, 2014 |                |               |                |  |  |  |
| (IN THOUSANDS OF DOLLARS) |                                       |                |               |                |  |  |  |
| (                         |                                       | <i>,</i>       |               |                |  |  |  |
|                           | (1)                                   | (2)            | (3)           | (4)            |  |  |  |
|                           | SHARED INVE                           | STMENT B       | Y VOLTAGE-    |                |  |  |  |
| PLANT                     | SER                                   | VICE LEVE      | LS            | TOTAL          |  |  |  |
|                           |                                       | DDIMADY        |               |                |  |  |  |
|                           | SUBSTATION<br>3/16                    | 2 623          | 1 /65         | 1 135          |  |  |  |
| EASEMENTS & SURVEY        | 1 319                                 | 2,025<br>0 085 | 5 578         | 16 882         |  |  |  |
| OTHER                     | 171                                   | 1 295          | 724           | 2 190          |  |  |  |
| SUBSTATIONS               | 26.128                                | 3.985          | 0             | 30.113         |  |  |  |
| POLES & FIXTURES          |                                       | 119,005        | 64.080        | 183,085        |  |  |  |
| O.H. LINES                |                                       | 78,818         | 42,441        | 121,259        |  |  |  |
| U.G. LINES                |                                       | 22,658         | 12,200        | 34,858         |  |  |  |
| LINE TRANSFORMERS         |                                       | 0              | 163,242       | 163,242        |  |  |  |
| SERVICES                  |                                       | 0              | 60,998        | 60,998         |  |  |  |
| METERS                    | 21                                    | 606            | 24,445        | 25,072         |  |  |  |
| STREET LIGHTING (DIRECT)  |                                       | <u>0</u>       | <u>34,507</u> | <u>34,507</u>  |  |  |  |
| TOTAL DIST. PLANT         | 27,985                                | 238,976        | 409,680       | 676,641        |  |  |  |
| GEN. PROPERTY PLANT       | 2,013                                 | 17,193         | 29,474        | 48,680         |  |  |  |
| TOTAL BFR WORKING CAPITAL | 29,999                                | 256,169        | 439,153       | 725,321        |  |  |  |
| WORKING CAPITAL           |                                       |                |               | 68,081         |  |  |  |
| TOTAL                     |                                       |                |               | <u>793,401</u> |  |  |  |
|                           |                                       |                |               |                |  |  |  |

8 9 The retail area, under bundled service, includes customer care services such as metering, billing, wiring inspections, responding to customer inquiries, credit services, marketing and sales. The investments associated with COS retail areas such as computer systems, office equipment and general buildings are assigned to other functional areas.

10

If Retail costs increase or decrease as a result of the introduction of Renewable to Retail,
 these changes will be reflected in the future DT rates.

#### **2015 Renewable to Retail Proceeding – Distribution Tariff Strawman Report** DRAFT – Subject to NS Power Management review and approval

| 1  | 4.0 | CUSTOMER CLASSES APPLICABLE TO DISTRIBUTION TARIFF   |
|----|-----|--|
| 2  |     | SERVICES   |
| 3  |     |  |
| 4  | 4.1 | Above the Line Rates   |
| 5  |     |  |
| 6  |     | Embedded Cost of Service Studies are conducted for nine retail rate classes and one          |
| 7  |     | wholesale class. The retail rate classes include:  |
| 8  |     |  |
| 9  |     | • two Residential classes  |
| 10 |     | three General Service classes  |
| 11 |     | three Industrial classes   |
| 12 |     | Unmetered Service class  |
| 13 |     |  |
| 14 |     | The two Residential classes, Domestic Service and Domestic Service Time of Day               |
| 15 |     | (DTD) are combined into one category for the COSS; however, they are billed under two        |
| 16 |     | separate tariffs. The Unmetered rate class includes about 100 published streetlight rates    |
| 17 |     | and a few hundred unpublished, customized miscellaneous small load rates designed to         |
| 18 |     | meet individual customer needs.  |
| 19 |     |  |
| 20 |     | Renewable to Retail service is not applicable to the Wholesale Municipal Class.              |
| 21 |     | Wholesale customers <sup>7</sup> are excluded under the Act from being an LRS. There are six |
| 22 |     | wholesale municipal customers served under this class. Four of them are supplied at a        |
| 23 |     | distribution voltage level. Since the total COS-based distribution rate base includes these  |
| 24 |     | customers, for the DT analysis the distribution rate base must be adjusted to remove rate    |
| 25 |     | base costs apportioned to wholesale municipal customers.                                     |

<sup>&</sup>lt;sup>7</sup> Section 2(1)(aaa) of the Act defines a "municipal utility" as "the Board of Commissions of the Berwick Electric Commission, The Electric Light Commissions for Riverport, in the Count of Lunenburg or an electric utility of the Municipality of the District of Guysborough, the Town of Antigonish, the Town of Lunenburg or the Town of Mahone Bay." Section 2(1)(d) of the Act defines a "wholesale customer" as "Nova Scotia Power Incorporated or a municipal utility." Section (2) (1)(c) of the Act specifies that a "wholesale customer" is not a "retail supplier".

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| 1                                     |     |   |
|---------------------------------------|-----|---|
| 2                                     |     | There are also seven transmission-connected Large Industrial Customers who are eligible   |
| 3                                     |     | for the Renewable to Retail market but to whom the DT does not apply.   |
| 4                                     |     |   |
| 5                                     |     | The ten classes above are responsible for all the "above the line" (ATL) rate base and  |
| 6                                     |     | operating expenses of the Company. The summaries of annual usage and costs of these   |
| 7                                     |     | classes are included in COSS Exhibits 9A Annual, 9B, and 10 in Attachment E.  |
| 8                                     |     |   |
|                                       |     |   |
| 9                                     | 4.2 | Below the Line Rates  |
| 9<br>10                               | 4.2 | Below the Line Rates  |
| 9<br>10<br>11                         | 4.2 | Below the Line Rates The Company also provides optional pricing to large customers under formula-based  |
| 9<br>10<br>11<br>12                   | 4.2 | Below the Line Rates The Company also provides optional pricing to large customers under formula-based rates. These rates receive accounting treatment outside the COS process, and are deemed  |
| 9<br>10<br>11<br>12<br>13             | 4.2 | Below the Line Rates The Company also provides optional pricing to large customers under formula-based rates. These rates receive accounting treatment outside the COS process, and are deemed to be "below the line" (BTL). <sup>8</sup> If a distribution-connected customer on a BTL rate opts to  |
| 9<br>10<br>11<br>12<br>13<br>14       | 4.2 | Below the Line Rates<br>The Company also provides optional pricing to large customers under formula-based<br>rates. These rates receive accounting treatment outside the COS process, and are deemed<br>to be "below the line" (BTL). <sup>8</sup> If a distribution-connected customer on a BTL rate opts to<br>purchase electricity from a LRS, the corresponding DT rate for the applicable bundled                            |
| 9<br>10<br>11<br>12<br>13<br>14<br>15 | 4.2 | Below the Line Rates<br>The Company also provides optional pricing to large customers under formula-based<br>rates. These rates receive accounting treatment outside the COS process, and are deemed<br>to be "below the line" (BTL). <sup>8</sup> If a distribution-connected customer on a BTL rate opts to<br>purchase electricity from a LRS, the corresponding DT rate for the applicable bundled<br>ATL service will apply. |

<sup>&</sup>lt;sup>8</sup> The rates include three 1P-RTP tariffs, Generation Replacement and Load Following, Shore Power Rate and Load Retention Rate.

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#### 1 5.0 REVENUE REQUIREMENT OF DISTRIBUTION AND RETAIL AREAS

2

3 The first step in designing the DT rates was to determine the appropriate revenue 4 requirement for the provision of Distribution and Retail Services. From the financial records of the Company, net plant investment is readily identifiable for the Power 5 6 Production, Transmission, and Distribution functions. Most of the expenses for 7 operations and maintenance for Power Production, Transmission, Distribution and Retail 8 are also readily identifiable. However, there are several components of plant, 9 depreciation and expenses that are not identified by these functional areas. Also. corporate overhead expenses and miscellaneous revenue credits are not tracked by 10 11 functional areas and must be functionalized in the COSS prior to classification and 12 allocation of costs.

13

14 The total distribution and retail revenue requirement of Retail Customers, excluding the 15 capital component of the Light Emitting Diode (LED) fixtures<sup>9</sup> and the distribution-16 related revenue requirement of the Municipal class, is \$238.4 million for 2014.

<sup>&</sup>lt;sup>9</sup> For the 2012 and 2013 GRAs, the LED fixture costs were proposed to be treated as a BTL item, determined outside of the COSS, due to uncertainty in their estimates ahead of the LED Capital Work Order submission.[NTD LED work order to be filed soon]

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#### Figure 3: Summary of Revenue Requirement of Distribution and Retail Areas

#### (Thousands of dollars)

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1

| Revenue<br>Requirement<br>Component          | All Distribution<br>Customers | Retail Customers Only    |                                       |         |  |  |  |
|--|-------------------------------|--------------------------|---------------------------------------|---------|--|--|--|
|  |                               | Electric Service<br>only | Streetlight<br>Fixtures (non-<br>LED) | Total   |  |  |  |
| Distribution                                 |                               |                          |                                       |         |  |  |  |
| Depreciation                                 | 56,309                        | 54,191                   | 1,924                                 | 56,116  |  |  |  |
| O&M including<br>corporate<br>overhead costs | 66,773                        | 60,607                   | 5,825                                 | 66,433  |  |  |  |
| Interest, taxes and return on equity         | 67,093                        | 65,705                   | 1,000                                 | 66,705  |  |  |  |
| Miscellaneous<br>Revenue                     | -2,028                        | -1,907                   | 0                                     | -1,907  |  |  |  |
| Distribution Total                           | 188,147                       | 178,596                  | 8,750                                 | 187,346 |  |  |  |
| Retail <sup>(1)</sup>                        | 51,358                        | 51,088                   | 0                                     | 51,088  |  |  |  |
| Total  | 239,506                       | 229,684                  | 8,750                                 | 238,434 |  |  |  |

5

4

(1) Excludes retail costs of \$271,000 of transmission connected Large Industrial and Municipal customers.

6

Overhead corporate costs assigned to Distribution and Retail, and credits associated with
 miscellaneous revenues are still being finalized as they were elements of the 2013 Cost of
 Service proceeding deferred for further study.<sup>10</sup> The overhead costs currently assigned to
 the Distribution and Retail areas are \$43.9 million. The miscellaneous revenues assigned
 to the Distribution and Retail areas are \$10.1 million.

12

A detailed breakdown of the revenue requirement is included in Exhibits 4, 4 Detail A,
and 5 of COSS in Attachment C.

<sup>&</sup>lt;sup>10</sup> Please refer to M05473, Decision 2014 NSUARB 53, pages 44-45.

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- In its proposed approach, NS Power used the revenue requirement of the Distribution and 3 Retail areas, as predicated on the 2014 Test Year revenue requirement before accounting 4 for a deferral of \$83.3 million of fixed costs, which were used to set the current bundled
- 5 service rates under the two-year Rate Stabilization Plan. The proposed revenue
- 6 requirement treatment of the DT aligns with that of OATT in the 2013 GRA.

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| 1  | 6.0 | CLASSIFICATION OF REVENUE REQUIREMENT  |
|----|-----|--|
| 2  |     |  |
| 3  |     | NS Power's distribution investments and costs are classified into demand-related and       |
| 4  |     | customer-related components.   |
| 5  |     |  |
| 6  | 6.1 | Demand-related components  |
| 7  |     |  |
| 8  |     | The demand classification is applied to utility assets that are added based upon maximum   |
| 9  |     | customer load. Examples of distribution assets classified entirely to demand are           |
| 10 |     | substations and line transformers. About two-thirds of total distribution costs and assets |
| 11 |     | are classified to demand.  |
| 12 |     |  |
| 13 | 6.2 | Customer-related components  |
| 14 |     |  |
| 15 |     | Utilities apply the customer-related classification to equipment necessary to enable a     |
| 16 |     | customer to receive service but unrelated to the amount of power consumed. This cost       |
| 17 |     | category includes distribution costs which do not vary with customer consumption but       |
| 18 |     | may vary directly with the number of customers to be served, such as service drops and     |
| 19 |     | meters. Other costs are a fixed requirement necessary for a distribution system regardless |
| 20 |     | of quantity of usage, such as protective devices which operate in the same manner with or  |
| 21 |     | without load on the system.  |
| 22 |     |  |
| 23 | 6.3 | Components with both customer- and demand-related characteristics                          |
| 24 |     |  |
| 25 |     | Certain types of distribution equipment cannot be classified as entirely customer-related  |
| 26 |     | or demand-related, but instead must be split between the two because the equipment both    |
| 27 |     | serves a maximum load requirement (demand) and enables the customer to be connected        |
| 28 |     | and thereby capable of receiving service (customer).                                       |
| 29 |     |  |

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| 1  | Examples of such equipment are distribution poles and distribution line conductors. The     |
|----|---|
| 2  | first 30% of their rate base and costs are assigned to Primary Service level and classified |
| 3  | to demand. The remaining 70 percent is split equally between Primary and Secondary          |
| 4  | levels. At each level a further equal split occurs between demand- and customer-related     |
| 5  | costs.  |
| 6  |   |
| 7  | Finally there are supportive assets to the Primary distribution equipment shared among      |
| 8  | various primary distribution assets and/or other functional areas such as land, general     |
| 9  | buildings and working capital. The classification of these assets will vary but in most     |
| 10 | cases is based on the weighted average classification of the most relevant distribution     |
| 11 | equipment.  |
| 12 |   |
| 13 | Retail expenses are all classified to customer. The classification breakdown of these       |
| 14 | costs is as follows.  |

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#### Figure 4: Classification Summary of Revenue Requirement of Distribution and

#### 2 **Retail (thousands of dollars)**

| Functional Area                   | Demand  | Customer | Total   |
|-----------------------------------|---------|----------|---------|
|                                   |         |          |         |
| Distribution                      |         |          |         |
| Non-Streetlight Related           |         |          |         |
| Retail Customers bfr Streetlights | 116,708 | 61,888   | 178,596 |
| Streetlights                      | 8,750   |          | 8,750   |
| Wholesale Customers               | 798     | 3        | 801     |
| Distribution Total                | 126,255 | 61,892   | 188,147 |
| Retail                            |         |          |         |
| Retail Customers                  |         | 51,182   | 51,182  |
| Wholesale Customers               |         | 176      | 176     |
| Retail Total                      |         | 51,358   | 51,358  |
| Total                             | 126,255 | 113,250  | 239,506 |

3

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4 5

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The details of classification results of distribution assets are included in Exhibit 2B and those of distribution and retail costs in Exhibit 5 of COSS (Attachment C).

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#### 1 7.0 ALLOCATION OF REVENUE REQUIREMENT

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To the extent possible and practical, costs should be assigned to rate classes directly. This can be done when costs are readily identified with a particular customer group or rate class. A direct assignment of costs reflects cost causation and is fair and equitable to customers. The only costs assigned directly in the current COSS are the distributionrelated costs of streetlight fixtures and maintenance assigned to the Unmetered Class. Due to the shared nature of NS Power's remaining Distribution and Retail costs, they are apportioned to rate classes based on the relative usage of these resources by rate classes. Demand-related Distribution costs are allocated to rate classes based on each class' share of their total non-coincident demands. Customer-related costs are allocated based on class relative shares of customer count. The breakdown of class demand- and customerrelated costs by functional area is provided below.

14

#### Figure 5: Summary of Revenue Requirement classification by rate class

15 16

#### (Thousands of dollars)

| Rate Class                        | Customers | MWh sales | Distribution Costs |              |                 | Retail<br>Cost | Total Cost      |
|-----------------------------------|-----------|-----------|--------------------|--------------|-----------------|----------------|-----------------|
|                                   |           |           | Demand             | Customer     | Total           | customer       |                 |
| Domestic Service                  | 456,991   | 4,216,538 | \$68,783           | \$53,644     | \$122,428       | \$42,045       | \$164,472       |
| Small General                     | 24,109    | 236,657   | \$3,878            | \$2,807      | \$6,686         | \$2,498        | \$9,184         |
| General                           | 11,349    | 2,448,685 | \$31,281           | \$3,804      | \$35,084        | \$3,158        | \$38,242        |
| Large General                     | 19        | 379,649   | \$2,394            | \$8          | \$2,402         | \$366          | \$2,768         |
| Small Industrial                  | 2,221     | 255,893   | \$3,122            | \$744        | \$3,866         | \$661          | \$4,527         |
| Medium Industrial                 | 198       | 495,412   | \$4,386            | \$55         | \$4,441         | \$582          | \$5,023         |
| Large Industrial                  | 25        | 275,419   | \$1,303            | \$14         | \$1,317         | \$756          | \$2,073         |
| Unmetered Service Rates           |           |           |                    |              | \$0             |                | \$0             |
| Electric Service                  | 9,604     | 98,246    | \$1,561            | \$812        | \$2,372         | \$1,117        | \$3,489         |
| Streetlight Maintenance & Capital |           |           | <u>\$8,750</u>     |              | \$8,750         |                | \$8,750         |
| Unmetered Total                   | 9,604     | 98,246    | <u>\$10,311</u>    | <u>\$812</u> | <u>\$11,122</u> | <u>\$1,117</u> | <u>\$12,239</u> |
| Total                             | 504,516   | 8,406,498 | \$125,458          | \$61,888     | \$187,346       | \$51,182       | \$238,528       |

- 17
- 18 19
- A detailed classification of class costs by activity is contained in Exhibit 6 of **Attachment C.**
- 21

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#### 1 8.0 DETERMINATION OF DISTRIBUTION AND RETAIL USAGE

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Rate classes are defined based on discernible customer characteristics (residential, commercial/general, industrial, and other) and size, as delineated by energy consumption and demand criteria (small, medium or large).<sup>11</sup> Implicitly, this segmentation also reflects differentiation by voltage level of service as a practical matter, since larger customers are typically served at higher voltage levels than smaller customers. The usage of these customers is assigned (levelized) in the COS and Load Research Studies at the customer's voltage level of service.

9 10

11 Distribution service costs are allocated to customer classes on the basis of class non-12 coincident demands and number of customers. For the purpose of determining the 13 demand-based allocation the class demand usage is levelized among three voltage levels: 14 Bulk Power Substation, Primary Voltage and Secondary Voltage. The distribution assets 15 and costs, broken down by these three voltage levels, are then allocated to rate classes based on their relative shares in total class non-coincident demands at these three service 16 levels. NS Power allocates bulk power substation costs based upon Non-Coincident 17 Peak<sup>12</sup> (NCP) rate class demands at the low side of the bulk power transformer. Primary 18 19 demand-related costs are allocated based upon the NCP rate class demand at primary 20 voltage level. These NCP demands at primary are the combination of secondary NCP 21 demands plus their respective losses and NCP demands for primary customers. 22 Secondary demand-related costs are allocated to rate classes based upon NCP rate class 23 demands at secondary. The non-coincident demand usage by rate classes is provided in 24 Exhibit 9B of Attachment C.

<sup>&</sup>lt;sup>11</sup> Other criteria are used for delineation in some cases. For example, the Domestic Time of Day optional rate is available only to customers with electric heating, a somewhat less immediately discernible feature than residential status itself. Other "niche" rates, such as Unmetered, have special criteria, such as no metering of consumption. <sup>12</sup> The Non-Coincident Peak Demand of a rate class is measured as the highest hourly energy consumption during a calendar year. It may or may not coincide with class hourly consumption during the hour in which the system peak occurs.

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1 The non-coincident demands of rate classes, other than the Large General, Large 2 Industrial and Municipal classes, are estimated based on the statistical load research 3 sample. The non-coincident demands of all rate classes are also a function of hourly line 4 losses.

5

6 The distribution customer-related costs, with the exception of service drops, are 7 apportioned to rate classes based on their relative shares in absolute customer counts. NS 8 Power allocates primary customer-related distribution cost based upon average number of 9 customers at primary and secondary. Secondary customer-related distribution costs are 10 allocated based upon average number of customers at secondary. Service drop costs are 11 currently allocated on the basis of weighted customer counts.

12

Retail services are allocated to rate classes based on weighted or absolute customer counts modified for the voltage service level, seasonal service, or class membership relevant to the retail activity in question. There are seven customer based allocators. The approach to weighting of customer counts is based on a weighted average of a number of monthly bills and billed revenues in each class per year. The rationale for a weighted customer count is based on recognition that aside from customer number there are other secondary causative factors at work which affect total cost of a retail activity.<sup>13</sup>

<sup>&</sup>lt;sup>13</sup> As reflected in allocator C-2B in Exhibit 8a of Attachment C, for example, the customer weighting of the Large Industrial customer is 20 times higher than that of the Small Industrial customer. In turn, the weighting of a Small Industrial customer is 5 times higher than that of a Small General customer.

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| 1  | 9.0 | DISTRIBUTION TARIFF RATE DESIGN  |
|----|-----|--|
| 2  |     |  |
| 3  |     | In its design of the DT rates, the Company was guided by the following principles:               |
| 4  |     |  |
| 5  |     | • In compliance with s. 3G(2) of the Act, NS Power's remaining customers were                    |
| 6  |     | not to be negatively affected.   |
| 7  |     | • To the extent practical, leverage existing rates and processes.                                |
| 8  |     | • Seek stakeholder consensus.  |
| 9  |     | • Adhere to established ratemaking principles to achieve an appropriate balance                  |
| 10 |     | among potentially competing ratemaking objectives such as intra-class                            |
| 11 |     | equitability and simplicity; efficiency and simplicity; and stability and efficiency.            |
| 12 |     |  |
| 13 | 9.1 | Rate Classification  |
| 14 |     |  |
| 15 |     | In the design of the DT, the Company followed the existing base cost rate classification         |
| 16 |     | among the metered and unmetered categories. This approach was chosen for the                     |
| 17 |     | following reasons:   |
| 18 |     |  |
| 19 |     | • The existing COS methodology is well established, following the UARB Decision                  |
| 20 |     | in the 2013 COS proceeding. <sup>14</sup> It is reflective of cost causation on the distribution |
| 21 |     | system, therefore supportive of the principle of no harm to NS Power's customers.                |
| 22 |     |  |
| 23 |     | • Relying on the existing COS methodology makes for easier implementation by                     |
| 24 |     | leveraging existing ratemaking processes.  |
| 25 |     |  |
| 26 |     | • Adherence to the existing COS methodology will be the least disruptive to electric             |
| 27 |     | services under the bundled service as this will help avoid artificial pricing                    |
|    |     |  |

<sup>&</sup>lt;sup>14</sup> NSPI 2013 Cost of Service Study, UARB Decision, 2014 NSUARB 53, M05473.

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| 1  |     | incentives to customer migration arising from differences in rate structures                   |
|----|-----|--|
| 2  |     | between bundled and unbundled rates.   |
| 3  |     |  |
| 4  | 9.2 | Revenue to Cost Ratios   |
| 5  |     |  |
| 6  |     | To determine revenue responsibilities of bundled service rate classes, NS Power applies        |
| 7  |     | an established process, which ensures that the revenue to cost $(R/C)$ ratios for classes fall |
| 8  |     | within the Board-approved 95 to 105 percent band. The process consists of applying             |
| 9  |     | first, an across-the-board increase to all classes and then making adjustments to those        |
| 10 |     | classes whose ratios fall outside the band. The adjustment is applied at the Board's           |
| 11 |     | discretion to provide a more stable rate environment to customers by minimizing                |
| 12 |     | fluctuations in rates attributable to imperfections in the COSS as well as uneven cost         |
| 13 |     | pressures on rate classes in GRA proceedings.  |
| 14 |     |  |
| 15 |     | The Company is proposing that the DT rates be set directly at cost, without R/C                |
| 16 |     | adjustments, for the following reasons:  |
| 17 |     |  |
| 18 |     | 1. Setting DT rates strictly at cost of service aligns with the ratemaking treatment           |
| 19 |     | under the OATT, which allows for a consistent treatment of all delivery charges                |
| 20 |     | applicable to open access distribution customers.  |
| 21 |     |  |
| 22 |     | 2. With generation and transmission rates of open access distribution customers                |
| 23 |     | being already exempted from the R/C ratio adjustment there is less compelling                  |
| 24 |     | reason, from a rate stability perspective, to apply such an adjustment solely to               |
| 25 |     | distribution rates which represent about a quarter of the total cost of electricity.           |
| 26 |     |  |
| 27 |     | 3. The R/C ratios used for the bundled rates are reflective of broad cost                      |
| 28 |     | considerations accounting for all four functional cost areas. There is no                      |
| 29 |     | conceptual basis for transferring these ratios to a small portion of bundled service           |
| 30 |     | revenue requirement associated with distribution and retail costs.                             |

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1 2 4. Strictly cost of service based DT rates allow for a more transparent rate setting 3 process. 4 5 9.3 **Rate Structure for Metered Services** 6 7 In the design of the distribution rate structures, the Company sought to find the right 8 balance among simplicity, efficiency and intra-class equity as affected by pricing signals 9 embedded in rates. To deliver on the objective of designing efficient and equitable rates 10 the Company endeavored to align, to the extent practical, the rate structures of DT with classification of class costs by demand-related and customer-related components. A 11 12 comparison of the proposed DT class rate structures to their bundled service counterparts 13 is set out in Attachment D. 14 15 9.3.1 **Customers on Energy and Customer charges** 16 17 The Company proposes to retain the current rate structure for the two Domestic and 18 Small General rate classes with the following exceptions: 19 20 • The time-differentiated energy charge components of the Domestic Time of Day 21 (TOD) rate are proposed to be replaced with one distribution usage charge 22 component. The distribution usage charge component is proposed to be the same 23 for the two Domestic rate classes. 24 25 The declining block rate structure of the Small General class is proposed to be • 26 replaced with the one distribution usage charge component. 27 28 The customer charges under the two Domestic and Small General rate classes were 29 retained at their current levels. The charges currently recover about two-thirds of the 30 COSS-based customer-related costs representing about 10% of the total bundled service

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| 1 | class costs. The current level of these charges is reflective of historical rate design     |
|---|---|
| 2 | practices including the UARB Decision in the 2003 Generic Rate $\mbox{Design Hearing}^{15}$ |
| 3 | which effectively froze these charges. In order to not create an artificial incentive or    |
| 4 | disincentive for customers to move to alternate service providers, due to a difference in   |
| 5 | rate structures, the Company retained customer charges at their current level.              |

6

7 The energy charges under these rates are designed to recover both energy and demand-8 related costs. Given the small loads of these customers and their general inability to 9 respond to price signals embedded in demand charges, installation of more expensive demand meters would not be warranted. The Company proposes, therefore, that the 10 11 energy charges in cents per kWh continue to be used as a proxy for the recovery of 12 demand-related distribution costs.

13

#### 14 **Domestic Time of Day rates**

15

16 The purpose of the current TOD rate structure is to recognize the generation-related cost 17 savings to NS Power from load shifting using the electric thermal storage (ETS) equipment-control under the bundled service. The higher customer charge of \$18.82 per 18 19 month for TOD Domestic Service, compared to \$10.83 for Domestic Service, under the 20 bundled services, is reflective of higher TOD meter costs and an additional charge to 21 make up for lost revenue due to introduction of reduced rates for the afternoon shoulder period in the winter months of January, February and December<sup>16</sup>. 22

23

24 There is no time-differentiated cost causation effect present in the bundled TOD rate for recovery of distribution and retail costs. Therefore, application of a flat distribution 25 26 usage charge is appropriate to TOD customers who will retain the TOD meters. The

<sup>&</sup>lt;sup>15</sup> NSUARB-NSPI-P-878, NSPI Generic Rate Design Hearing, Matter Number M05002, Decision 2003 NSUARB 91, August 1, 2003, pages 47-48

<sup>&</sup>lt;sup>16</sup> NS Power 1995 Rate Hearing, UARB Decision, M06131, March 4, 1996, page 68.

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| 1  |       | customer charge is proposed to be reduced by \$5.67 to \$13.15 to reflect the retail and   |
|--|-------|--|
| 2  |       | distribution costs and TOD meter costs included in the TOD customer charge.  |
| 3  |       |  |
| 4  |       | Customers who no longer require TOD meters will have them replaced with non-TOD  |
| 5  |       | meters and will be billed under the Domestic Service rate.   |
| 6  |       |  |
| 7  |       | Small General Class  |
| 8  |       |  |
| 9  |       | The Company proposes to recover distribution costs of the Small General class through a  |
| 10   |       | flat distribution charge in cents per kWh instead of the two declining block charges.  |
| 11   |       | This approach allows for a simpler rate design which aligns customer treatment between   |
| 12   |       | the Small General and Residential rate classes. <sup>17</sup>  |
|  |       |  |
| 13   |       |  |
| 13<br>14   | 9.3.2 | Customers on Demand charges  |
| 13<br>14<br>15   | 9.3.2 | Customers on Demand charges  |
| 13<br>14<br>15<br>16   | 9.3.2 | Customers on Demand charges The Company proposes that all demand-related distribution costs of customers currently   |
| 13<br>14<br>15<br>16<br>17   | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand  |
| 13<br>14<br>15<br>16<br>17<br>18   | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being   |
| 13<br>14<br>15<br>16<br>17<br>18<br>19   | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being<br>proposed that all customer-related costs be recovered through the demand charges. Since  |
| 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20   | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being<br>proposed that all customer-related costs be recovered through the demand charges. Since<br>there are no energy-related costs in the distribution and retail areas, there is no need to   |
| <ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> </ol>                                     | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being<br>proposed that all customer-related costs be recovered through the demand charges. Since<br>there are no energy-related costs in the distribution and retail areas, there is no need to<br>retain distribution usage charges in cents per kWh for these customers.  |
| <ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> </ol>                         | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being<br>proposed that all customer-related costs be recovered through the demand charges. Since<br>there are no energy-related costs in the distribution and retail areas, there is no need to<br>retain distribution usage charges in cents per kWh for these customers.  |
| <ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>             | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being<br>proposed that all customer-related costs be recovered through the demand charges. Since<br>there are no energy-related costs in the distribution and retail areas, there is no need to<br>retain distribution usage charges in cents per kWh for these customers.<br>Rates with demand charges do not include customer charges. Customer-related costs   |
| <ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> </ol> | 9.3.2 | Customers on Demand charges<br>The Company proposes that all demand-related distribution costs of customers currently<br>billed under the bundled rates with demand charges be recovered through demand<br>charges. In addition, as is the case with the bundled service rates, it is also being<br>proposed that all customer-related costs be recovered through the demand charges. Since<br>there are no energy-related costs in the distribution and retail areas, there is no need to<br>retain distribution usage charges in cents per kWh for these customers.<br>Rates with demand charges do not include customer charges. Customer-related costs<br>represent only a very small portion of the total cost of power of these customers, who are |

<sup>&</sup>lt;sup>17</sup> Since the time of the design of its declining block structure, which predates the generic cost of service and rate design proceedings conducted in 1993, the availability criterion under the rate has increased from usage less than 12 MWh per year to 45 MWh per year. This change was justified, among other things, on the basis of similarity in usage profiles between the residential and small general customers consistent with the ratemaking concept of "like rates for like service".

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| 1  |       | much bigger consumers than customers billed under the energy only rates. <sup>18</sup> In order to |
|----|-------|--|
| 2  |       | keep the rate structures of these classes as simple as possible, the customer-related costs        |
| 3  |       | are currently recovered through the rate components of energy in cents per kWh and                 |
| 4  |       | demand in dollars per kW or kVA. NS Power proposes that this practice continue under               |
| 5  |       | the rate design of the DT.   |
| 6  |       |  |
| 7  | 9.3.3 | Proof of Revenue   |
| 8  |       |  |
| 9  |       | The rates for each metered service are determined by dividing their revenue requirements           |
| 10 |       | associated with services provided under the rate component by their respective billing             |
| 11 |       | determinant. Please refer to Attachment E for the Proof of Revenue calculations behind             |
| 12 |       | the rate components applicable to metered services under the DT.                                   |
| 13 |       |  |
| 14 | 9.4   | Unmetered Rates  |
| 15 |       |  |
| 16 |       | The Company proposes that its ratemaking approach for the determination of Unmetered               |
| 17 |       | Streetlight and Small Miscellaneous Loads rates be applied in the design of DT rates for           |
| 18 |       | these customers. This will result in the same types and number of rates as provided under          |
| 19 |       | bundled service.   |
| 20 |       |  |
| 21 |       | The DT streetlight rates are proposed to be offered under the three distinct service               |
| 22 |       | categories for non-LED types of fixtures:  |
| 23 |       |  |
| 24 |       | 1. Electric service only, applicable to both streetlight and miscellaneous loads;                  |
| 25 |       |  |
| 26 |       | 2. Electric service combined with streetlight fixture maintenance; and                             |
| 27 |       |  |

<sup>&</sup>lt;sup>18</sup> The customer-related costs account from 1 percent to 2 percent of the total costs of the rate classes on demand charges.

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| 1  | 3.     | Full streetlight service, which includes electric service, maintenance and capital |
|----|--------|--|
| 2  |        | costs associated with streetlight fixtures.  |
| 3  |        |  |
| 4  | In add | lition the DT will accommodate two types of LED services:                          |
| 5  |        |  |
| 6  | 1.     | Electric service only, applicable to both streetlight and miscellaneous loads; and |
| 7  |        |  |
| 8  | 2.     | Full streetlight service, which includes electric service, maintenance and capital |
| 9  |        | costs associated with streetlight fixtures.  |
| 10 |        |  |
|    |        |  |

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#### 1 10.0 CONCLUSION

#### 2

The proposed approach to the design of the DT rates leverages existing rate structures and cost of service methodology. It is grounded in established ratemaking principles and, as such, provides a cost neutral rate framework that will support development of the Renewable to Retail market. The proposed distribution rate structures, by their alignment with their bundled service counterparts, make for easy implementation and fair allocation of costs among customers. They also provide unbiased pricing signals that will enable rational generation service choice decisions.

| 1  | Reque       | st DR-4:   |
|----|-------------|--|
| 2  |             |  |
| 3  | Please      | explain why NSPI believes that recovering all DT revenue for classes with demand           |
| 4  | charge      | es from demand charges on the customer's single maximum monthly or annual load,            |
| 5  | rather      | than a broader measure of the customer's contribution to maximum loads on                  |
| 6  | distrib     | oution equipment.  |
| 7  |             |  |
| 8  | (a)         | Does NSPI agree that a customer with many high-load hours would likely                     |
| 9  |             | contribute more to the capacity requirements and costs of the distribution system          |
| 10 |             | than a customer with just one hour at the same maximum load?                               |
| 11 |             |  |
| 12 | <b>(b</b> ) | Please identify the seasonal and daily time periods in which feeders and substations       |
| 13 |             | are most likely to experience peak or near-peak load.                                      |
| 14 |             |  |
| 15 | (c)         | Please provide any data on the timing and magnitude of load on each distribution           |
| 16 |             | substation and each feeder for which NS Power has such data.                               |
| 17 |             |  |
| 18 | Respon      | nse DR-4:  |
| 19 |             |  |
| 20 | Please      | refer section 9.3.2 Customers on Demand Charges of the Distribution Tariff Strawman        |
| 21 | Report      | of May 21, 2105.   |
| 22 |             |  |
| 23 | (a)         | The cost of the distribution system, as driven by the amount of investment in distribution |
| 24 |             | infrastructure, is primarily determined by a customer's instantaneous demand on the        |
| 25 |             | system, as opposed to duration of its usage or energy, and also the number of customers    |
| 26 |             | attached to the system. Please refer to the example distribution planning study provided   |
| 27 |             | in Attachment 1 (originally provided in Matter M06514, the NS Power 2015 Annual            |
| 28 |             | Capital Expenditure Plan), for the usage considerations in investment decisions.           |
| 29 |             | Consistent with this, investment and costs of the system are classified between demand-    |

| 1 |       | and customer-related categories. <sup>1</sup> Accordingly, it is appropriate to recover these costs |
|---|-------|---|
| 2 |       | through demand charges as applicable to monthly metered customer demands.                           |
| 3 |       |   |
| 4 | (b-c) | Please refer to Attachment 2, which shows an illustration of the times of annual peaks on           |
| 5 |       | bulk power substations, using data from September, 2013. As demonstrated under                      |
| 6 |       | column F, Peak Occurrence, substation load tends to peak during mornings and evenings               |
| 7 |       | during the winter. However, there are some substations that register their peak load                |
| 8 |       | outside of these periods, and there are several substations which peak during non-winter            |
| 9 |       | months.   |

<sup>&</sup>lt;sup>1</sup> This classification is ascertained by NARUC's manual pages 87 and 88.

| 1  | Requ         | est DR-5:   |
|----|--------------|---|
| 2  |              |   |
| 3  | Please       | e provide any information that NS Power believes is relevant to the time periods in         |
| 4  | which        | residential load is most likely to contribute to peak loads on                              |
| 5  |              |   |
| 6  | (a)          | shared line transformers,   |
| 7  |              |   |
| 8  | <b>(b)</b>   | feeders, and  |
| 9  |              |   |
| 10 | ( <b>c</b> ) | distribution substations.   |
| 11 |              |   |
| 12 | Respo        | nse DR-5:   |
| 13 |              |   |
| 14 | (a-c)        | NS Power has not conducted studies concerned with time periods in which residential         |
| 15 |              | load contributes to peak loads on its individual transformers, feeders and distribution     |
| 16 |              | substations. For the allocation purposes of demand-related costs of distribution in its     |
| 17 |              | Cost of Service Studies, the Company uses class non-coincident annual demands as            |
| 18 |              | presented in Exhibit 9B included in Appendix C. Please refer to Attachment 1 which          |
| 19 |              | was CA DR-4 from the 2013 COS proceeding <sup>1</sup> for information on dates and hours of |
| 20 |              | class annual peaks. Note that some rate classes peak during non-winter months and           |
| 21 |              | outside of on-peak daily periods.   |

<sup>&</sup>lt;sup>1</sup> 2013 NS Power Cost of Service Study, M05473, Exhibit N-1, Appendix B, June 28, 2013.

#### 2013 Cost of Service Study NSPI Responses to Consumer Advocate Data Requests

#### **NON-CONFIDENTIAL**

| 1 | <b>Request DR-4:</b> |
|---|----------------------|
|---|----------------------|

2

#### 3 Date and time of each monthly class NCP in COSS Sheet "Input Data Two"

4

5 Response DR-4:

6

7 The class non-coincident peak is selected from the constructed forecast load shape file as the

8 maximum hourly load in each specific rate class for each month.

9

| Rate Class                | Date             | Time  | Peak MW |
|---------------------------|------------------|-------|---------|
| Domestic                  | Tue, Feb-02      | 19:00 | 1,037   |
| Small General             | Thu, Feb-04      | 12:00 | 56      |
| General Demand            | Mon, Jan-11      | 10:00 | 488     |
| Large General             | Thu, Sep-02      | 11:00 | 73      |
| Small Industrial          | Tue, Aug-31      | 12:00 | 48      |
| Medium Industrial         | Fri, Dec-10      | 09:00 | 85      |
| Large Industrial          | Fri, Sep-03      | 15:00 | 139     |
| ELI 2P-RTP                |                  |       | 0       |
| Municipal                 | Wed, Feb-03      | 09:00 | 41      |
| Unmetered                 | Thu, Dec-02      | 00:00 | 24      |
|                           |                  |       |         |
| Bowater Mersey            | N/A (calculated) |       | 42      |
| Gen. Repl. & Load Follow. | Tue, Sep-21      | 00:00 | 24      |
| RTP                       |                  |       | 0       |
| LRT                       | N/A (calculated) |       | 38      |

| 1  | Reque      | est DR-6:   |
|----|------------|---|
| 2  |            |   |
| 3  | If the     | probability of customer load contributing to distribution peak loads varies over time,      |
| 4  | please     | e explain whether NS Power favours time-differentiating the DT rate for customers on        |
| 5  | the Ti     | me of Use rate.   |
| 6  |            |   |
| 7  | <b>(a)</b> | If NS Power believes that the probability of customer load contributing to                  |
| 8  |            | distribution peak loads does not vary over time, please explain why.                        |
| 9  |            |   |
| 10 | <b>(b)</b> | If NS Power believes that the probability of customer load contributing to                  |
| 11 |            | distribution peak loads varies over time, but does not believe that the Time of Use         |
| 12 |            | DT rate should be time-differentiated, please explain why.                                  |
| 13 |            |   |
| 14 | Respo      | nse DR-6:   |
| 15 |            |   |
| 16 | (a-b)      | As provided in section 9.0 of the Distribution Tariff Strawman of May 21, 2015, in its      |
| 17 |            | design of the Distribution Tariff, NS Power was guided, among other criteria, by the        |
| 18 |            | objective of leveraging existing rates and processes. The existing rate setting             |
| 19 |            | methodology does not provide cost information or guidelines on the basis of which a         |
| 20 |            | Time-Of-Day (TOD) differentiated distribution tariff could be developed for residential     |
| 21 |            | customers.  |
| 22 |            |   |
| 23 |            | The current residential TOD rates have been designed for bundled service customers          |
| 24 |            | utilizing Electric Thermal Storage (ETS) load shifting equipment without consideration      |
| 25 |            | of savings arising specifically from changes in utilization of distribution infrastructure. |
| 26 |            | The primary motivation for the development of the TOD Tariff was the deferral of            |
| 27 |            | investment in generation assets. Consistent with this, the highest TOD rates apply during   |
| 28 |            | morning and evening periods in January, February and December. While the system total       |
| 29 |            | load always peaks during these periods, the load on individual distribution substations     |
| 30 |            | and feeders may not. This approach is also reflected in the design of the 1P-RTP adders     |

| 1  | whose generation cost component is differentiated by the time of day, while the             |
|----|---|
| 2  | transmission and distribution costs are not.  |
| 3  |   |
| 4  | Cost of Service Studies are conducted for the TOD and non-TOD residential rate classes      |
| 5  | combined and therefore TOD class-specific cost information is not available from the        |
| 6  | COS. Further, the COS apportions all distribution costs to rate classes on the basis of     |
| 7  | annual usage (total number of customers or annual peak) without consideration of time of    |
| 8  | day or season-differentiated periods.   |
| 9  |   |
| 10 | Please refer also to CA DR-5. The Company has not conducted studies concerned with          |
| 11 | time periods in which residential load contributes to peak loads on its distribution assets |
| 12 | and therefore does not know whether the probability of customer load contributing to        |
| 13 | distribution peak loads varies over time. As such, the Company does not have                |
| 14 | information as to what time of day and seasonal periods the DT rates should be              |
| 15 | differentiated and by what amounts.   |
|    |   |
| 1  | Request DR-16:  |
|----|---|
| 2  |   |
| 3  | Reference: Distribution Tariff Draft and Attachments  |
| 4  |   |
| 5  | Re page 10, Lines 6-9, please elaborate on how retail capital and operating costs are                         |
| 6  | functionalized.   |
| 7  |   |
| 8  | Response DR-16:   |
| 9  |   |
| 10 | Under the approved Cost of Service Studies, capital investment is functionalized among the three              |
| 11 | functional areas of generation, transmission and distribution. Please refer to Attachment 1, page             |
| 12 | 3. Attachment 1 is a print version of Tab 2B of Attachment C, the Excel Cost of Service Model                 |
| 13 | that was issued to stakeholders with the Draft Distribution Tariff on May 21, 2015.                           |
| 14 |   |
| 15 | Direct operating expenses are functionalized into the retail area based on the Uniform System of              |
| 16 | Accounts, mandated by the National Association of Regulatory Utility Commissioners                            |
| 17 | (NARUC), followed by NS Power in its accounting practice. In addition to this, some                           |
| 18 | miscellaneous revenues and a portion of the overhead expenses of the Company are also                         |
| 19 | functionalized to retail. <sup>1</sup> The retail-related overhead expenses are apportioned to the individual |
| 20 | direct retail expense categories based on their relative shares in the total direct retail expenses.          |
| 21 | Please refer to Attachment 2, page 4. Attachment 2 is a print version of Tab 5 in Attachment C                |
| 22 | of May 21, 2015. It contains a list of operating costs and miscellaneous revenues functionalized              |
| 23 | to retail, as well as proration formulas used in assignment of overhead retail costs to individual            |
| 24 | direct retail cost categories.  |

<sup>&</sup>lt;sup>1</sup> Note that a final report on the COS treatment of Miscellaneous Revenues and Overhead Cost, includes recommendations regarding changes to the current approach. M06555, Exhibit N-2, February 9, 2015.

#### EXHIBIT 2B PAGE 1 of 3

#### NOVA SCOTIA POWER INC. CLASSIFICATION OF AVERAGE RATE BASE FOR THE YEAR ENDING DECEMBER 31, 2014

(IN THOUSANDS OF DOLLARS)

|              |  | (1)             | (2)             | (3)               | (4)             | (5)             | (6)               | (7)             | (8)             | (9)               |
|--------------|--|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|
|              |  | INITIAL         | R/B CLASSIFIC   | ATION             | FURTH           | ER CLASSIFICA   | TION              | FULLY CL        | ASSIFIED RAT    | E BASE            |
|              |  | DEMAND<br>PLANT | ENERGY<br>PLANT | CUSTOMER<br>PLANT | DEMAND<br>PLANT | ENERGY<br>PLANT | CUSTOMER<br>PLANT | DEMAND<br>PLANT | ENERGY<br>PLANT | CUSTOMER<br>PLANT |
| (1)          | GENERATION FUNCTION                            |                 |                 |                   |                 |                 |                   |                 |                 |                   |
| (2)          | STEAM PLANT                                    | \$1,191,036     | \$179,496       | \$0               | (\$673,293)     | \$673,293       | \$0               | \$517,743       | \$852,789       | \$0               |
| (4)          | HYDRO PLANT                                    | 366,637         | 4,824           | 0                 | -207,260        | 207,260         | 0                 | 159,377         | 212,084         | 0                 |
| (5)          | WIND PLANT                                     | 201,182         | 0               | 0                 | -179,039        | 179,039         | 0                 | 22,143          | 179,039         | 0                 |
| (6)          | LM6000 PLANT                                   | 71,417          | 0               | 0                 | -40,372         | 40,372          | 0                 | 31,045          | 40,372          | 0                 |
| (7)          | GAS TURBINE PLANT - OTHER                      | 6,513           | <u>0</u>        | <u>0</u>          | <u>0</u>        | <u>0</u>        | <u>0</u>          | 6,513           | <u>0</u>        | <u>0</u>          |
| (8)<br>(9)   | TOTAL GENERATION PLANT                         | 1,836,785       | 184,320         | 0                 | -1,099,963      | 1,099,963       | 0                 | 736,822         | 1,284,283       | 0                 |
| (10)         | GENERAL PROPERTY PLANT                         | <u>137,057</u>  | <u>13,754</u>   | <u>0</u>          | -82,077         | 82,077          | <u>0</u>          | 54,980          | <u>95,830</u>   | <u>0</u>          |
| (11)<br>(12) | TOTAL PLANT IN SERVICE                         | 1,973,842       | 198,074         | 0                 | -1,182,040      | 1,182,040       | 0                 | 791,802         | 1,380,114       | 0                 |
| (13)         | Working Capital & Deferred<br>Charges/Credits: |                 |                 |                   |                 |                 |                   |                 |                 |                   |
| (14)         | CASH - FUEL                                    | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |
| (15)         | CASH - OTHER                                   | 4,223           | 9,353           | 0                 | 0               | 0               | 0                 | 4,223           | 9,353           | 0                 |
| (16)         | MAT. & SUPPLIES - FUEL                         | 0               | 84,441          | 0                 | 0               | 0               | 0                 | 0               | 84,441          | 0                 |
| (17)         | MAT. & SUPPLIES - OTHER                        | 16,768          | 1,683           | 0                 | -10,041         | 10,041          | 0                 | 6,726           | 11,724          | 0                 |
| (18)         | DEF. CHG Financing                             | 38,421          | 3,856           | 0                 | -23,009         | 23,009          | 0                 | 15,413          | 26,864          | 0                 |
| (19)         | DEF. CHG Tax                                   | 6,665           | 669             | 0                 | -3,991          | 3,991           | 0                 | 2,674           | 4,660           | 0                 |
| (20)         | DEF. CHG Pension                               | 12,601          | 27,906          | 0                 | 0               | 0               | 0                 | 12,601          | 27,906          | 0                 |
| (21)         | DEF. CHG Steam Assets                          | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |
| (22)         | DEF. CHG Fuel Deferral                         | 0               | -5,043          | 0                 | 0               | 0               | 0                 | 0               | -5,043          | 0                 |
| (23)         | DEF. CHG Other                                 | 1,637           | 164             | 0                 | -980            | 980             | 0                 | 657             | 1,144           | 0                 |
| (24)         | DEF. CHG FCR                                   | 17,170          | 1,723           | 0                 | -10,282         | 10,282          | 0                 | 6,888           | 12,005          | 0                 |
| (25)         | DEF. CR ARO Steam                              | -37,934         | -5,717          | 0                 | 21,444          | -21,444         | 0                 | -16,490         | -27,161         | 0                 |
| (26)         | DEF. CR ARO Hydro                              | -22,466         | -296            | 0                 | 12,700          | -12,700         | 0                 | -9,766          | -12,996         | 0                 |
| (27)         | DEF. CR ARO WIND                               | -10,720         | -141            | 0                 | 6,060           | -6,060          | 0                 | -4,660          | -6,201          | 0                 |
| (28)         | DEF. CR ARO CI                                 | -4,150          | 0               | 0                 | 0               | 0               | 0                 | -4,150          | 0               | 0                 |
| (29)         | DEF. CR Other                                  | -5,716          | -861            | 0                 | 3,231           | -3,231          | 0                 | -2,485          | -4,092          | 0                 |
| (30)         |  | 16 409          | 117 727         | <u>U</u>          | <u>U</u>        | <u>U</u>        | <u>U</u>          | 11 620          | 122.605         | <u>U</u>          |
| (31)         | SOB-TOTAL                                      | 10,490          | 117,737         | 0                 | -4,000          | 4,000           | 0                 | 11,030          | 122,005         | 0                 |
| (33)         | TOTAL GENERATION FUNCTION                      | 1,990,340       | 315,810         | 0                 | -1,186,908      | 1,186,908       | 0                 | 803,432         | 1,502,719       | 0                 |
| (34)         | TRANSMISSION FUNCTION                          |                 |                 |                   |                 |                 |                   |                 |                 |                   |
| (36)<br>(37) | Transmission - HV                              | 109,080         | 0               | 0                 | -61,663         | 61,663          | 0                 | 47,417          | 61,663          | 0                 |
| (38)         |  | 9 120           | 0               | 0                 | 4 601           | 4 601           | 0                 | 2 5 2 9         | 4 601           | 0                 |
| (40)         | TOTAL PLANT IN SERVICE                         | 117,219         | 0               | 0                 | -66,264         | 66,264          | 0                 | 50,955          | 66,264          | 0                 |
| (41)         | Working Capital & Deferred<br>Charges/Credits: |                 |                 |                   |                 |                 |                   |                 |                 |                   |
| (43)         | CASH - FUEL                                    | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |
| (44)         | CASH - OTHER                                   | 266             | 346             | 0                 | 0               | 0               | 0                 | 266             | 346             | 0                 |
| (45)         | MAT. & SUPPLIES - FUEL                         | 0               | 0               | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |
| (46)         | MAT. & SUPPLIES - OTHER                        | 996             | 0               | 0                 | -563            | 563             | 0                 | 433             | 563             | 0                 |
| (47)         | DEF. CHG Financing                             | 2.282           | 0               | 0                 | -1.290          | 1.290           | 0                 | 992             | 1.290           | 0                 |
| (48)         | DEF. CHG Tax                                   | 396             | 0               | 0                 | -224            | 224             | 0                 | 172             | 224             | 0                 |
| (49)         | DEF. CHG Pension                               | 795             | 1,033           | 0                 | 0               | 0               | 0                 | 795             | 1,033           | 0                 |
| (50)         | DEF. CHG Other                                 | 69              | 0               | 0                 | -39             | 39              | 0                 | 30              | 39              | 0                 |
| (51)         | DEF. CHG ARO Trans.                            | <u>-5,787</u>   | <u>0</u>        | <u>0</u>          | 3,271           | -3,271          | <u>0</u>          | <u>-2,516</u>   | -3,271          | <u>0</u>          |
| (52)<br>(53) | SUB-TOTAL                                      | -984            | 1,380           | 0                 | 1,156           | -1,156          | 0                 | 172             | 224             | 0                 |
| (54)         | Transmission - HV                              | 116,235         | 1,380           | 0                 | -65,108         | 65,108          | 0                 | 51,127          | 66,488          | 0                 |

#### EXHIBIT 2B PAGE 2 of 3

#### NOVA SCOTIA POWER INC. CLASSIFICATION OF AVERAGE RATE BASE FOR THE YEAR ENDING DECEMBER 31, 2014

(IN THOUSANDS OF DOLLARS)

|            |                             | (1)              | (2)           | (3)        | (4)           | (5)               | (6)        | (7)       | (8)          | (9)         |
|------------|-----------------------------|------------------|---------------|------------|---------------|-------------------|------------|-----------|--------------|-------------|
|            |                             | INITIAL F        | R/B CLASSIFIC | ATION      | FURTH         | ER CLASSIFICA     | TION       | FULLY CL  | ASSIFIED RAT | E BASE      |
|            |                             | DEMAND           | ENERGY        | CUSTOMER   | DEMAND        | ENERGY            | CUSTOMER   | DEMAND    | ENERGY       | CUSTOMER    |
|            |                             | PLANT            | PLANT         | PLANT      | PLANT         | PLANT             | PLANT      | PLANT     | PLANT        | PLANT       |
|            |                             |                  |               |            |               |                   |            |           |              |             |
| (1)<br>(2) | Transmission - EHV          | 357,074          | 0             | 0          | -201,854      | 201,854           | 0          | 155,220   | 201,854      | 0           |
| (3)        | GENERAL PROPERTY PLANT      | 26,644           | <u>0</u>      | <u>0</u>   | -15,062       | 15,062            | <u>0</u>   | 11,582    | 15,062       | <u>0</u>    |
| (4)        | TOTAL PLANT IN SERVICE      | 383,718          | 0             | 0          | -216,916      | 216,916           | 0          | 166,802   | 216,916      | 0           |
| (5)        |                             |                  |               |            |               |                   |            |           |              |             |
|            | Working Capital & Deferred  |                  |               |            |               |                   |            |           |              |             |
| (6)        | Charges/Credits:            |                  |               |            |               |                   |            |           |              |             |
| (7)        | CASH - FUEL                 | 0                | 0             | 0          | 0             | 0                 | 0          | 0         | 0            | 0           |
| (8)        | CASH - OTHER                | 872              | 1,134         | 0          | 0             | 0                 | 0          | 872       | 1,134        | 0           |
| (9)        | MAT. & SUPPLIES - FUEL      | 0                | 0             | 0          | 0             | 0                 | 0          | 0         | 0            | 0           |
| (10)       | MAT. & SUPPLIES - OTHER     | 3,260            | 0             | 0          | -1,843        | 1,843             | 0          | 1,417     | 1,843        | 0           |
| (11)       | DEF. CHG Financing          | 7,469            | 0             | 0          | -4,222        | 4,222             | 0          | 3,247     | 4,222        | 0           |
| (12)       | DEF. CHG Tax                | 1,296            | 0             | 0          | -732          | 732               | 0          | 563       | 732          | 0           |
| (13)       | DEF. CHG Pension            | 2,601            | 3,382         | 0          | 0             | 0                 | 0          | 2,601     | 3,382        | 0           |
| (14)       | DEF. CHG Other              | 225              | 0             | 0          | -127          | 127               | 0          | 98        | 127          | 0           |
| (15)       | DEF. CHG FCR                | 4,357            | 0             | 0          | -2,463        | 2,463             | 0          | 1,894     | 2,463        | 0           |
| (16)       | DEF. CR ARO Trans           | <u>-18,943</u>   | <u>0</u>      | <u>0</u>   | <u>10,709</u> | <u>-10,709</u>    | <u>0</u>   | -8,235    | -10,709      | <u>0</u>    |
| (17)       | SUB-TOTAL                   | 1,136            | 4,516         | 0          | 1,321         | -1,321            | 0          | 2,457     | 3,195        | 0           |
| (18)       |                             |                  |               |            |               |                   |            |           |              |             |
| (19)       | I ransmission - EHV         | 384,854          | 4,516         | 0          | -215,595      | 215,595           | 0          | 169,259   | 220,111      | 0           |
| (20)       | TOTAL TRANSMISSION FUNCTION | <b>\$504.000</b> | <b>6-</b> 000 | <b>*</b> 0 | (\$000 700)   | \$000 <b>7</b> 00 | <b>*</b> 0 | \$000 007 | \$000 F00    | <b>\$</b> 0 |
| (21)       | TOTAL TRANSMISSION FUNCTION | \$501,090        | \$5,896       | \$0        | (\$280,703)   | \$280,703         | \$0        | \$220,387 | \$286,599    | \$0         |

#### EXHIBIT 2B PAGE 3 of 3

#### NOVA SCOTIA POWER INC. CLASSIFICATION OF AVERAGE RATE BASE FOR THE YEAR ENDING DECEMBER 31, 2014

(IN THOUSANDS OF DOLLARS)

| Initial UPS CLASSIFICATION<br>PLANT   PUERTINE CLASSIFICATION<br>PLANT   PUERTINE CLASSIFICATION<br>PLANT   PUERTINE PLANT  |  |                                  | (1)             | (2)                    | (3)               | (4)             | (5)             | (6)               | (7)             | (8)             | (9)               |   |         |
|---|--|----------------------------------|-----------------|------------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|---|---------|
| PEARATO<br>PLANT   ENERGY<br>PLANT   CUSTORER<br>PLANT   DENERGY<br>PLANT   CUSTORER<br>PLANT   DENERGY<br>PLANT   CUSTORER<br>PLANT   CUSTORER<br>PLA  |  |                                  | INITIAL F       | R/B CLASSIFIC          |                   | FURTH           | ER CLASSIFIC    | ATION             | FULLY CL        | ASSIFIED RAT    | TE BASE           |   |         |
| Distribution FLANCTION   Distribution FLANT: 0   Distribution FLANT: 0 53,023 50 51,412 50 50 53,023 50 51,412   O THER 1,443 0 667 0 0 0 0 1,463 0 667   O THER 1,443 0 677 0 0 0 0 1,463 0 647   O THER 1,443 0 677 0 0 0 0 0 1,463 0 647   O ALLINES 2,2668 0 12,200 0 0 0 163,242 0 0 0 163,242 0 0 0 163,242 0 0 0 163,242 0 0 0 163,242 0 0 0 163,242 0 0 12,227 0 0 0 163,242 0 0 12,227 0 0 0 12,227 0 0 0 12,227 0 0 0 12,227 0 0 0  |  |                                  | DEMAND<br>PLANT | ENERGY<br>PLANT        | CUSTOMER<br>PLANT | DEMAND<br>PLANT | ENERGY<br>PLANT | CUSTOMER<br>PLANT | DEMAND<br>PLANT | ENERGY<br>PLANT | CUSTOMER<br>PLANT |   |         |
| 01         02         02         03            03                                     03  | (1)  | DISTRIBUTION FUNCTION            |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (4)   (AND   \$3,023   \$0   \$1,412   \$0   \$0   \$3,023   \$0   \$1,413     (6)   FARSMERTS & SURVEY   1,1555   0   5,377   0   0   0   1,433   0   677     (6)   FORER   1,433   0   687   0   0   0   1,433   0   687     (6)   FORER   1,10005   0   64,080   0   0   0   119,005   0   64,080     (7)   LURES   78,818   0   42,441   0   0   0   12,200     | (2)  | DISTRIBUTION PLANT:              |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (a)   EASEMENTS & SURVEY   11,505   0   5.377   0   0   0   11,505   0   5.377     (b)   OTHER   1,433   0   607   0   0   0   1,133   0   607     (c)   OTHER   3,113   0   60   0   0   1,313   0   667     (c)   OLALINES   7,818   0   42,441   0   0   0   1,333   0   42,441     (c)   OLALINES   2,2658   0   12,200   0   0   0   163,242   0 <td< td=""><td>(4)</td><td>LAND</td><td>\$3,023</td><td>\$0</td><td>\$1,412</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$3,023</td><td>\$0</td><td>\$1,412</td></td<>  | (4)  | LAND                             | \$3,023         | \$0                    | \$1,412           | \$0             | \$0             | \$0               | \$3,023         | \$0             | \$1,412           |   |         |
| (i)   OTHER   1,483   0   697   0   0   1,483   0   697     SUBSTATONS   30,113   0   0   0   0   30,133   0   0     (i)   PCLES & FRTURES   113,005   0   44,000   0   0   130,055   0   44,000     (i)   U.G.LINES   22,2268   0  | (5)  | EASEMENTS & SURVEY               | 11,505          | 0                      | 5,377             | 0               | 0               | 0                 | 11,505          | 0               | 5,377             |   |         |
| (7) SUBSTATIONS 30,113 0 0 0 30,113 0 0   (7) SUBSTATIONS 73,818 0 42,441 0 0 172,818 0 42,441   (9) OL LINES 73,818 0 42,441 0 0 0 172,818 0 42,441   (11) UNE TRANSFORMERS 123,252 0 0 0 0 0 0,0388   (12) SERVICES 0 0 0 22,277 0 0 0 42,441 0 0 0 22,240 0 2 0 2 0 2 0 22,240 0 22,2417 0 0 0 0 22,2417 0 2 22,3117 0 0 0 1,55,440 0 1,55,440 0 1,55,440 0 1,55,440 <t< td=""><td>(6)</td><td>OTHER</td><td>1,493</td><td>0</td><td>697</td><td>0</td><td>0</td><td>0</td><td>1,493</td><td>0</td><td>697</td></t<>   | (6)  | OTHER                            | 1,493           | 0                      | 697               | 0               | 0               | 0                 | 1,493           | 0               | 697               |   |         |
| (a)   POLES & FIXTURES   119.005   0   64.080   0   0   119.005   0   64.080     (b)   OLLINES   72.818   0   42.411   0   0   0   22.852   0   12.200     (c)   OLLINES   72.818   0   42.441   0   0   0   22.852   0   12.200     (c)   DENTAL   0   0   0   0   0   0   22.862   0   12.200     (c)   DENTAL   0   0   25.072   0   0   0   440.108   0   212.277   0   0   440.108   0   212.277   0   0   440.108   0   212.277   0   0   440.108   0   212.277   0   0   440.108   0   212.277   0   0   440.108   0   212.277   0   0   440.108   0   22.840   1<12.843   | (7)  | SUBSTATIONS                      | 30,113          | 0                      | 0                 | 0               | 0               | 0                 | 30,113          | 0               | 0                 |   |         |
| (a)   (b)   (b)   (c)   (c) <td>(8)</td> <td>POLES &amp; FIXTURES</td> <td>119,005</td> <td>0</td> <td>64,080</td> <td>0</td> <td>0</td> <td>0</td> <td>119,005</td> <td>0</td> <td>64,080</td>   | (8)  | POLES & FIXTURES                 | 119,005         | 0                      | 64,080            | 0               | 0               | 0                 | 119,005         | 0               | 64,080            |   |         |
| (10) U.G. LINES 22,658 0 12,200 0 0 0 22,658 0 12,000   (11) LINE TRANSFORMERS 163,242 0 0 0 0 163,242 0 0 0 0 163,242 0 0 0 163,242 0  | (9)  | O.H. LINES                       | 78,818          | 0                      | 42,441            | 0               | 0               | 0                 | 78,818          | 0               | 42,441            |   |         |
| (11) Like TRANSFORMERS 103.422 0 0 0 163.242 0  | (10)   | U.G. LINES                       | 22,658          | 0                      | 12,200            | 0               | 0               | 0                 | 22,658          | 0               | 12,200            |   |         |
| (12) SERVICES 0 <th< td=""><td>(11)</td><td>LINE TRANSFORMERS</td><td>163,242</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>163,242</td><td>0</td><td>0</td></th<>  | (11)   | LINE TRANSFORMERS                | 163,242         | 0                      | 0                 | 0               | 0               | 0                 | 163,242         | 0               | 0                 |   |         |
| (13) METERS 0 0 25,072 0 0 0 0 25,072 0 0 0 10,05 25,072 0 0 0 10,05 0 21,025 0 0 0 10,05 0 21,027 0 0 0 10,05 0 21,027 0 0 0 21,027 0 0 0 440,108 0 22,127 0 0 0 440,108 0 22,127 0 0 0 440,108 0 22,127 0 0 0 440,108 0 22,22,117 0 0 0 440,108 0 12,524,117 0  | (12)   | SERVICES                         | 0               | 0                      | 60,998            | 0               | 0               | 0                 | 0               | 0               | 60,998            |   |         |
| (1+) STREET LIGHTING 10251 0 0 11251 0 0   (15) TOTAL DISTRIBUTION PLANT 440,108 0 212.277 0 0 0 440,108 0 212.277   (16) TOTAL PLANT IN SERVICE 472,947 0 228,117 0 0 0 472,947 0 228,117   (17) Conscillal Andrend Conscillal Andrend Conscillal Andrend Conscillal Andrend Conscillal Andrend Conscillal Andrend   (18) TOTAL PLANT IN SERVICE 472,947 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 228,117 0 228,117 0 232,414 0 232,414 0 232,413 0 233,117 0 233,117 0 233,117 0 233,117 0 233,117 0 233,117 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | (13)   | METERS                           | 0               | 0                      | 25,072            | 0               | 0               | 0                 | 0               | 0               | 25,072            |   |         |
| (15)   TOTAL DISTRIBUTION PLANT   440,108   0   212,277   0   0   0   440,108   0   212,277     (16)   GENERAL PROPERTY PLANT   32,840   0   15,840   0   0   32,840   0   15,840   0   0   32,840   0   15,840   0   0   32,841   0   15,840   0   0   0   472,947   0   228,117   0   0   0   472,947   0   228,117   0 <td>(14)</td> <td>STREET LIGHTING</td> <td><u>10,251</u></td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0</u></td> <td><u>10,251</u></td> <td><u>0</u></td> <td><u>0</u></td>  | (14)   | STREET LIGHTING                  | <u>10,251</u>   | <u>0</u>               | <u>0</u>          | <u>0</u>        | <u>0</u>        | <u>0</u>          | <u>10,251</u>   | <u>0</u>        | <u>0</u>          |   |         |
| (16)   (17) GENERAL PROPERTY PLANT 22.840 0 15.840 0 15.840 0 15.840 0 15.840 0 15.840 0 15.840 0 15.840 0 15.840 0 15.840 0 15.840 0 0 22.841 0 22.841 0 <td>(15)</td> <td>TOTAL DISTRIBUTION PLANT</td> <td>440,108</td> <td>0</td> <td>212,277</td> <td>0</td> <td>0</td> <td>0</td> <td>440,108</td> <td>0</td> <td>212,277</td>  | (15)   | TOTAL DISTRIBUTION PLANT         | 440,108         | 0                      | 212,277           | 0               | 0               | 0                 | 440,108         | 0               | 212,277           |   |         |
| City Constraint Service 322.840 0 15.840 0 0 0 472,947 0 228,117   (B) TOTAL PARTIN SERVICE 472,947 0 228,117 0 0 0 472,947 0 228,117   (B) TOTAL PARTIN SERVICE 472,947 0 228,117 0 0 0 0 0 7,343   (2) CASH - THER 0  | (16)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (18)   TOTAL PLANT IN SERVICE   472,947   0   228,117   0   0   472,947   0   228,117     Warking Capital & Deferred.   Charage-Credits:          228,117   0   <   | (17)   | GENERAL PROPERTY PLANT           | 32,840          | <u>0</u>               | <u>15,840</u>     | <u>0</u>        | <u>0</u>        | <u>0</u>          | <u>32,840</u>   | <u>0</u>        | <u>15,840</u>     |   |         |
| MontangeoCredits:     VariangeoCredits:     VariangeoCredits:     Cash - OTHER   0   OTTHER   0   0   0   0     VariangeoCredits:   0    0 <th <="" colspan="2" td=""><td>(18)</td><td>TOTAL PLANT IN SERVICE</td><td>472,947</td><td>0</td><td>228,117</td><td>0</td><td>0</td><td>0</td><td>472,947</td><td>0</td><td>228,117</td></th>   | <td>(18)</td> <td>TOTAL PLANT IN SERVICE</td> <td>472,947</td> <td>0</td> <td>228,117</td> <td>0</td> <td>0</td> <td>0</td> <td>472,947</td> <td>0</td> <td>228,117</td> |                                  | (18)            | TOTAL PLANT IN SERVICE | 472,947           | 0               | 228,117         | 0                 | 0               | 0               | 472,947           | 0 | 228,117 |
| Working Capital & Deferred.     Changeworksite     (21 CASH - FUEL   0   <th colspan="2</td> <td>(19)</td> <td></td>  | (19)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (20) CASH - OTHER 0   |  | Working Capital & Deferred       |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (21) CASH - FUEL 0  | (20)   | Charges/Credits:                 |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (22) CASH - OTHER 4,130 0 7,343 0 0 0 1,303 0 7,343   (23) MAT. & SUPPLIES - OTHER 4,018 0 1,938 0 0 0 0 0 0   (24) MAT. & SUPPLIES - OTHER 4,018 0 1,938 0 0 0 4,444 0 0 0 9,206 0 4,440   (25) DEF. CHG Fnaxing 1,597 0 770 0 0 0 1,597 0 770   (27) DEF. CHG Other 12,321 0 21,908 0 0 12,321 0 21,908   (28) BEF. CHG Other 12,321 0 36,533 0 0 0 31,548 0 36,533   (30) SUB-TOTAL DISTRIBUTION FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$0 \$0 \$264,650 \$0 \$0 \$0 \$0 \$264,650 \$0 \$0 \$0 \$264,650 \$0 \$0 \$0 \$0 \$264,650 \$0 \$0 \$0 \$0 \$0 \$0  | (21)   | CASH - FUEL                      | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (23) MAT. & SUPPLIES - FUEL 0   | (22)   | CASH - OTHER                     | 4,130           | 0                      | 7,343             | 0               | 0               | 0                 | 4,130           | 0               | 7,343             |   |         |
| (24) MAT. & SUPPLIES: OTHER 4.018 0 1,938 0 0 4.018 0 1938   (25) DEF. CHG Financing 9,206 0 4.440 0 0 0 1,597 0 770   (26) DEF. CHG Foraxin 15.97 0 770 0 0 0 1,597 0 710   (27) DEF. CHG Foraxin 12.321 0 21.908 0 0 12.321 0 21.908   (28) DEF. CHG Other 2277 0 31.548 0 36.533 0 0 31.548 0 36.533   (30) (24) TOTAL DISTRIBUTION FUNCTION \$504.496 \$0 \$264.650 \$0 \$50 \$0 \$0 \$50 \$0 \$0 \$264.650   (31) (24) TOTAL DISTRIBUTION FUNCTION \$504.496 \$0 \$264.650 \$0 \$0 \$0 \$0 \$0 \$0 \$264.650   (33) (24) TOTAL DISTRIBUTION PLANT: (36) \$870 TAL RETAIL FUNCTION \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0  | (23)   | MAT. & SUPPLIES - FUEL           | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (25)   DEF. CHG Fnancing   9,206   0   4,440   0   0   0   9,206   0   4,440     (26)   DEF. CHG Pension   12,321   0   21,908   0   0   12,321   0   21,908     (28)   DEF. CHG Pension   12,321   0   21,908   0   0   31,548   0   36,533   0   0   0   31,548   0   36,533     (30)   (31)   (24) TOTAL DISTRIBUTION FUNCTION   \$504,496   \$0   \$264,650   \$0   \$0   \$504,496   \$0   \$264,650     (37)   (37)   (37)   0   0   0   \$0   \$0   \$0   \$504,496   \$0   \$264,650     (37)   ERFIGHT FUNCTION   \$504,496   \$0   \$264,650   \$0   \$0   \$0   \$0   \$0   \$264,650   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0  | (24)   | MAT. & SUPPLIES - OTHER          | 4,018           | 0                      | 1,938             | 0               | 0               | 0                 | 4,018           | 0               | 1,938             |   |         |
| (26)   DEF. CHG Tax   1,597   0   770   0   0   1,597   0   770     (27)   DEF. CHG Pension   12,321   0   21,908   0   0   12,321   0   21,908     (28)   DEF. CHG Other   277   0   134   0   0   0   31,548   0   36,533     (30)   24)   TOTAL DISTRIBUTION FUNCTION   \$504,496   \$0   \$264,650   \$0   \$0   \$504,496   \$0   \$264,650     (31)   (24) TOTAL DISTRIBUTION FUNCTION   \$504,496   \$0   \$264,650   \$0   \$0   \$0   \$0   \$0   \$264,650     (32)   BETAIL FUNCTION   \$504,496   \$0   \$264,650   \$0 <td>(25)</td> <td>DEF. CHG Financing</td> <td>9,206</td> <td>0</td> <td>4,440</td> <td>0</td> <td>0</td> <td>0</td> <td>9,206</td> <td>0</td> <td>4,440</td>  | (25)   | DEF. CHG Financing               | 9,206           | 0                      | 4,440             | 0               | 0               | 0                 | 9,206           | 0               | 4,440             |   |         |
| (27) DEF. CHG Pension 12.321 0 21,908 0 0 12.321 0 21,908   (28) DEF. CHG Other 2ZZ 0 134 0 0 0 31,548 0 36,533   (30) 0 0 0 31,548 0 36,533 0 0 0 31,548 0 36,533   (30) 0 50 \$0 \$0 \$0 \$504,496 \$0 \$264,650   (31) (24) TOTAL DISTRIBUTION FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$0 \$0 \$0 \$264,650   (32) (33) <b>BETAIL FUNCTION</b> \$504,496 \$0 \$264,650 \$0 \$0 \$0 \$0 \$0 \$0 \$264,650 \$0 \$0 \$0 \$0 \$264,650 \$0 <td< td=""><td>(26)</td><td>DEF. CHG Tax</td><td>1,597</td><td>0</td><td>770</td><td>0</td><td>0</td><td>0</td><td>1,597</td><td>0</td><td>770</td></td<>   | (26)   | DEF. CHG Tax                     | 1,597           | 0                      | 770               | 0               | 0               | 0                 | 1,597           | 0               | 770               |   |         |
| (28)   DEF. CHG Other   2TT   0   134   0   0   0   2TT   0   134     (30)   SUB-TOTAL   31,548   0   36,533   0   0   0   31,548   0   36,533     (31)   (24) TOTAL DISTRIBUTION FUNCTION   \$504,496   \$0   \$264,650   \$0   \$0   \$0   \$50   \$0   \$264,650     (33)   RETAIL FUNCTION   \$504,496   \$0   \$264,650   \$0   \$0   \$0   \$0   \$264,650     (34)   Castron   S   SETAIL FUNCTION   \$504,496   \$0   \$264,650     (35)   SERVICES   \$0   | (27)   | DEF. CHG Pension                 | 12,321          | 0                      | 21,908            | 0               | 0               | 0                 | 12,321          | 0               | 21,908            |   |         |
| (29) SUB-TOTAL 31,548 0 36,533 0 0 0 31,548 0 36,533   (30) (24) TOTAL DISTRIBUTION FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$504,496 \$0 \$264,650   (32) EFTAIL FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$504,496 \$0 \$264,650   (34) DISTRIBUTION PLANT: \$ <td>(28)</td> <td>DEF. CHG Other</td> <td>277</td> <td><u>0</u></td> <td><u>134</u></td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0</u></td> <td>277</td> <td><u>0</u></td> <td>134</td>   | (28)   | DEF. CHG Other                   | 277             | <u>0</u>               | <u>134</u>        | <u>0</u>        | <u>0</u>        | <u>0</u>          | 277             | <u>0</u>        | 134               |   |         |
| (31)<br>(24) TOTAL DISTRIBUTION FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$504,496 \$0 \$264,650   (31)<br>(32) <b>ETAIL FUNCTION</b> (33)<br>(34) <b>ETAIL FUNCTION</b> \$504,496 \$0 \$264,650 \$0 \$0 \$504,496 \$0 \$264,650   (33)<br>(34) <b>ETAIL FUNCTION</b> \$501,496 \$0 <td>(29)</td> <td>SUB-TOTAL</td> <td>31,548</td> <td>0</td> <td>36,533</td> <td>0</td> <td>0</td> <td>0</td> <td>31,548</td> <td>0</td> <td>36,533</td>   | (29)   | SUB-TOTAL                        | 31,548          | 0                      | 36,533            | 0               | 0               | 0                 | 31,548          | 0               | 36,533            |   |         |
| (1) (24) TOTAL DISTRIBUTION FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$504,496 \$0 \$264,650   (32) RETAIL FUNCTION \$504,496 \$0 \$264,650 \$0 \$0 \$504,496 \$0 \$264,650   (34) SERVICES \$0<  | (30)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| ATTAIL FUNCTION   33   34   35   36   37   38   39   310   311   311   311   312   313   314   314   315   315   316   317   318   319   3110   3111   3111   3111   3111   3111   3111   3111   31111   31111   31111   31   | (31)   | (24) TOTAL DISTRIBUTION FUNCTION | \$504,496       | \$0                    | \$264,650         | \$0             | \$0             | \$0               | \$504,496       | \$0             | \$264,650         |   |         |
| (1)   (3)   (36) SERVICES \$0 <td>(32)</td> <td>RETAIL FUNCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | (32)   | RETAIL FUNCTION                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| Constraint of the second seco | (34)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (36) SERVICES \$0   | (35)   | DISTRIBUTION PLANT:              |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| Construction <thconstructin< th=""> Constructin Co</thconstructin<>  | (36)   | SERVICES                         | \$0             | \$0                    | \$0               | \$0             | \$0             | \$0               | \$0             | \$0             | \$0               |   |         |
| 1017AL RETAIL PLANT 0   | (37)   | METERS                           | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (39) (40) GENERAL PROPERTY PLANT Q <th< td=""><td>(38)</td><td>TOTAL RETAIL PLANT</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>  | (38)   | TOTAL RETAIL PLANT               | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (40) GENERAL PROPERTY PLANT 0<  | (39)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (41) TOTAL PLANT IN SERVICE 0<  | (40)   | GENERAL PROPERTY PLANT           | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (42)<br>Working Capital & Deferred   (43)<br>(43)<br>Charges/Credits:<br>(44) CASH - FUEL 0 0 0 0 0 0 0 0 0   (44) CASH - FUEL 0 </td <td>(41)</td> <td>TOTAL PLANT IN SERVICE</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>  | (41)   | TOTAL PLANT IN SERVICE           | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| Working Capital & Deferred     (43)   Charges/Credits:     (44)   CASH - FUEL   0   | (42)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (43) Charges/Credits:   (44) CASH - FUEL 0 0 0 0 0 0 0   (45) CASH - OTHER 0 0 0 0 0 0 0 0 0   (46) MAT. & SUPPLIES - FUEL 0<   | ` '  | Working Capital & Deferred       |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (44) CASH - FUEL 0  | (43)   | Charges/Credits:                 |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (45) CASH - OTHER 0   | (44)   | CASH - FUEL                      | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (46) MAT. & SUPPLIES - FUEL 0<  | (45)   | CASH - OTHER                     | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (47) MAT. & SUPPLIES - OTHER 0  | (46)   | MAT. & SUPPLIES - FUEL           | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (48) DEF. CHG Financing 0 </td <td>(47)</td> <td>MAT. &amp; SUPPLIES - OTHER</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>  | (47)   | MAT. & SUPPLIES - OTHER          | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (49) DEF. CHG Tax 0   | (48)   | DEF. CHG Financing               | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (50) DEF. CHG Pension 0 <td>(49)</td> <td>DEF. CHG Tax</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>  | (49)   | DEF. CHG Tax                     | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (51) DEF. CHG Other 0   | (50)   | DEF. CHG Pension                 | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (52)   SUB-TOTAL   0 <t< td=""><td>(51)</td><td>DEF. CHG Other</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>  | (51)   | DEF. CHG Other                   | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (53)   (54)   TOTAL RETAIL FUNCTION   0<  | (52)   | SUB-TOTAL                        | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
| (54)   TOTAL RETAIL FUNCTION   0 <td>(53)</td> <td></td>  | (53)   |                                  |                 |                        |                   |                 |                 |                   |                 |                 |                   |   |         |
| (55)<br>(56) TOTAL AVE. RATE BASE <u>\$2,995,925</u> <u>\$321,706</u> <u>\$264,650</u> ( <u>\$1,467,611</u> ) <u>\$1,467,611</u> <u>\$0</u> \$1,528,314 \$1,789,317 \$264,650   | (54)   | TOTAL RETAIL FUNCTION            | 0               | 0                      | 0                 | 0               | 0               | 0                 | 0               | 0               | 0                 |   |         |
|   | (55)<br>(56)   | TOTAL AVE. RATE BASE             | \$2,995,925     | \$321,706              | \$264,650         | (\$1,467,611)   | \$1,467,611     | \$0               | \$1,528,314     | \$1,789,317     | \$264,650         |   |         |

EXHIBIT 5 Page 1 of 4

|                                   | (1)<br>TOTAL<br>COMPANY | (2)<br>DEMAND<br>EXPENSES | (3)<br>ENERGY<br>EXPENSES | (4)<br>CUSTOMER<br>EXPENSES |
|-----------------------------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| GENERATION FUNCTION               |                         |                           |                           |                             |
| (1) FUEL                          | 367,943                 | \$0                       | \$367,943                 | \$0                         |
| 2) PURCHASED PWR REG - IPP        | 896                     | 390                       | 507                       | 0                           |
| (3) PURCHASED PWR REG - BIOMASS   | 13,799                  | 2,205                     | 11,595                    | 0                           |
| (4) PURCHASED PWR WIND - FIXED    | 67,031                  | 7,048                     | 59,982                    | 0                           |
| (5) PURCHASED PWR REG - Imports   | 217                     | 0                         | 217                       | 0                           |
| (6) OPER. & MAINT STEAM           | 109,984                 | 33,681                    | 76,303                    | 0                           |
| (7) OPER. & MAINT HYDRO           | 12,650                  | 3,874                     | 8,776                     | 0                           |
| (8) OPER. & MAINT WIND            | 6,110                   | 1,871                     | 4,239                     | 0                           |
| (9) OPER. & MAINT BIOMASS         | 8,092                   | 2,478                     | 5,614                     | 0                           |
| (10) OPER. & MAINT LM6000         | 425                     | 130                       | 295                       | 0                           |
| (11) OPER. & MAINT OTHER CT's     | 1,257                   | 1,056                     | 201                       | 0                           |
| (12) DSM AMORTIZATION             | 1,056                   | 385                       | 671                       | 0                           |
| (13) FCR DEFERRAL                 | 13,408                  | 4,671                     | 8,737                     | 0                           |
| (14) GRANTS IN LIEU OF TAXES      | 24,672                  | 8,995                     | 15,678                    | 0                           |
| (15) DEPRECIATION:                |                         |                           |                           |                             |
| (16) STEAM                        | 65,371                  | 24,695                    | 40,676                    | 0                           |
| (17) HYDRO                        | 11,163                  | 4,790                     | 6,373                     | 0                           |
| (18) WIND                         | 8,186                   | 901                       | 7,285                     | 0                           |
| (19) LM6000                       | 2,084                   | 906                       | 1,178                     | 0                           |
| (20) GAS TURBINE - OTHER          | 1,202                   | 1,202                     | 0                         | 0                           |
| (21) GENERAL PROPERTY             | 25,696                  | 9,368                     | 16,328                    | 0                           |
| (22) INTEREST NET OF AFUDC        | 92,022                  | 32,059                    | 59,963                    | 0                           |
| (23) PREFERRED DIVIDENDS          | 5,106                   | 1,779                     | 3,327                     | 0                           |
| (24) CORPORATE TAXES              | 26,336                  | 9,175                     | 17,161                    | 0                           |
| (25) NON-OPERATING REVENUE:       |                         |                           |                           |                             |
| (26) EXPORT SALES                 | -1,826                  | 0                         | -1,826                    | 0                           |
| (27) OTHER REVENUE                | -10,677                 | -1,873                    | -8,804                    | 0                           |
| (28) RETURN (PROFIT/LOSS)<br>(29) | 77,701                  | 27,070                    | 50,631                    | 0                           |
| (30) TOTAL GENERATION             | \$929,904               | \$176,854                 | \$753,049                 | \$0                         |

EXHIBIT 5 Page 2 of 4

|   | (1)<br>TOTAL<br>COMPANY | (2)<br>DEMAND<br>EXPENSES | (3)<br>ENERGY<br>EXPENSES | (4)<br>CUSTOMER<br>EXPENSES |
|---|-------------------------|---------------------------|---------------------------|-----------------------------|
| TRANSMISSION FUNCTION                       |                         |                           |                           |                             |
| Transmission - HV:                          |                         |                           |                           |                             |
| (1) O&M - HV<br>(2) GRANTS IN LIEU OF TAXES | 6,250<br>1,320          | 2,717<br>574              | 3,533<br>746              | 0                           |
| (3) DEPRECIATION:                           | 1,020                   | 011                       | 110                       | Ũ                           |
| (4) TRANSMISSION                            | 5,371                   | 2,335                     | 3,036                     | 0                           |
| (5) GENERAL PROPERTY                        | 1,387                   | 603                       | 784                       | 0                           |
|   | 4,693                   | 2,040                     | 2,653                     | 0                           |
| (8) CORPORATE TAXES                         | 1 343                   | 584                       | 759                       | 0                           |
| (9) NON-OPERATING REVENUE:                  | 1,010                   | 001                       | 100                       | 0                           |
| (10) OTHER REVENUE                          | -264                    | -115                      | -149                      | 0                           |
| (11) RETURN (PROFIT/LOSS)                   | 3,963                   | 1,723                     | 2,240                     | 0                           |
| TOTAL - HV                                  | 24,324                  | 10,573                    | 13,750                    | 0                           |
| Transmission - EHV:                         |                         |                           |                           |                             |
| (12) O&M - HV                               | 20,461                  | 8,894                     | 11,567                    | 0                           |
| (13) GRANTS IN LIEU OF TAXES                | 4,370                   | 1,900                     | 2,471                     | 0                           |
| (15) TRANSMISSION                           | 17.580                  | 7.642                     | 9,938                     | 0                           |
| (16) GENERAL PROPERTY                       | 4,540                   | 1,973                     | 2,566                     | 0                           |
| (17) INTEREST NET OF AFUDC                  | 15,537                  | 6,754                     | 8,783                     | 0                           |
| (18) PREFERRED DIVIDENDS                    | 862                     | 375                       | 487                       | 0                           |
| (19) CORPORATE TAXES                        | 4,447                   | 1,933                     | 2,514                     | 0                           |
| (20) NON-OPERATING REVENUE:                 |                         |                           |                           |                             |
| (21) OTHER REVENUE                          | -866                    | -376                      | -489                      | 0                           |
|   | 3,092                   | 1,344                     | 1,748                     | 0                           |
| (23) RETURN (PROFIT/LOSS)                   | 13,119                  | 5,703                     | 7,410                     | 0                           |
| (24) TOTAL - EHV                            | 83,143                  | 36,142                    | 47,001                    | 0                           |
| (25) TOTAL TRANSMISSION                     | \$107,466               | \$46,716                  | \$60,751                  | \$0                         |

EXHIBIT 5 Page 3 of 4

|  | (1)<br>TOTAL<br>COMPANY | (2)<br>DEMAND<br>EXPENSES | (3)<br>ENERGY<br>EXPENSES | (4)<br>CUSTOMER<br>EXPENSES |
|--|-------------------------|---------------------------|---------------------------|-----------------------------|
| DISTRIBUTION FUNCTION                  |                         |                           |                           |                             |
| (1) BEFORE STREETLIGHTS                |                         |                           |                           |                             |
| (2) SUBSTATIONS                        | \$306                   | \$306                     | \$0                       | \$0                         |
| (3) OVERHEAD LINES                     | 38,749                  | 25,187                    | 0                         | 13,562                      |
| (4) UNDERGROUND LINES                  | 693                     | 451                       | 0                         | 243                         |
| 5) LINE TRANSFORMERS                   | 1,484                   | 1,484                     | 0                         | 0                           |
| (6) METERS                             | 948                     | 0                         | 0                         | 948                         |
| (7) COMMUNICATIONS                     | 8,880                   | 8,880                     | 0                         | 0                           |
| (8) GRANTS IN LIEU OF TAXES            | 7,858                   | 5,117                     | 0                         | 2,740                       |
| (9) DEPRECIATION:                      |                         |                           |                           |                             |
| (10) DISTRIBUTION - Land               | 0                       | 0                         | 0                         | 0                           |
| (11) DISTRIBUTION - Easements          | 433                     | 295                       | 0                         | 138                         |
| (12) DISTRIBUTION - Other              | -3,612                  | -2,462                    | 0                         | -1,150                      |
| (13) DISTRIBUTION - Substations        | 906                     | 906                       | 0                         | 0                           |
| (14) DISTRIBUTION - Poles and Fixtures | 18,878                  | 12,271                    | 0                         | 6,607                       |
| (15) DISTRIBUTION - OH Lines           | 7,800                   | 5,070                     | 0                         | 2,730                       |
| (16) DISTRIBUTION -UG Lines            | 1,669                   | 1,085                     | 0                         | 584                         |
| (17) DISTRIBUTION -Line Transformers   | 11,573                  | 11,573                    | 0                         | 0                           |
| (18) DISTRIBUTION -Services            | 6,646                   | 0                         | 0                         | 6,646                       |
| (19) DISTRIBUTION -Meters              | 3,721                   | 0                         | 0                         | 3,721                       |
| (20) GENERAL PROPERTY                  | 8,294                   | 5,595                     | 0                         | 2,699                       |
| (21) INTEREST NET OF AFUDC             | 30,282                  | 19,722                    | 0                         | 10,560                      |
| (22) PREFERRED DIVIDENDS               | 1,680                   | 1,094                     | 0                         | 586                         |
| (23) CORPORATE TAXES                   | 8,666                   | 5,644                     | 0                         | 3,022                       |
| (24) RETURN (PROFIT/LOSS)              | 25,569                  | 16,653                    | 0                         | 8,917                       |
| STREETLIGHTS                           |                         |                           |                           |                             |
|  | 5 825                   | 5 825                     | 0                         | 0                           |
| (26) GRANTS IN LIEU OF TAXES           | 106                     | 106                       | 0                         | 0                           |
| (27) DEPRECIATION                      | 1 924                   | 1 924                     | 0                         | 0                           |
| (28) INTEREST NET OF AFUDC             | 409                     | 409                       | 0                         | 0                           |
|  | -05                     | -00                       | 0                         | 0                           |
| (30) CORPORATE TAXES                   | 117                     | 117                       | 0                         | 0                           |
| (31) RETURN (PROFIT/LOSS)              | 345                     | 345                       | 0                         | 0                           |
| (32) Subtotal                          | 8 750                   | 8 750                     | 0                         | 0                           |
|  | 0,750                   | 0,750                     | 0                         | 0                           |
| (33) OTHER REVENUE                     | -2,028                  | -1,366                    | 0                         | -662                        |
| (35) TOTAL DISTRIBUTION                | \$188,147               | \$126,255                 | \$0                       | \$61,892                    |

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|                                 | (1)<br>TOTAL<br>COMPANY | (2)<br>DEMAND<br>EXPENSES | (3)<br>ENERGY<br>EXPENSES | (4)<br>CUSTOMER<br>EXPENSES |
|---------------------------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| <b>RETAIL FUNCTION</b>          |                         |                           |                           |                             |
| (1) QTY. ASSURANCE. & COMM.     | 5,401                   | 0                         | 0                         | 5,401                       |
| (2) CALL CENTRE                 | 20,974                  | 0                         | 0                         | 20,974                      |
| (3) BILLING SERVICES            | 6,536                   | 0                         | 0                         | 6,536                       |
| (4) ELECT. WIRING INSPECT H/O   | 471                     | 0                         | 0                         | 471                         |
| (5) METER DATA SERVICES         | 831                     | 0                         | 0                         | 831                         |
| (6) METER READING - FIELD       | 10,853                  | 0                         | 0                         | 10,853                      |
| (7) ELECT. WIRING INSPECT FIELD | 6,098                   | 0                         | 0                         | 6,098                       |
| (8) PAYMENT SERVICES            | 1,250                   | 0                         | 0                         | 1,250                       |
| (9) CREDIT SERVICES             | 0                       | 0                         | 0                         | 0                           |
| (10) BAD DEBT EXPENSE           | 5,704                   | 0                         | 0                         | 5,704                       |
| (11) MARKETING & SALES          | 2,047                   | 0                         | 0                         | 2,047                       |
| (12) COGS (NET OF RETAIL SALES) | -499                    | 0                         | 0                         | -499                        |
| (13) GRANTS IN LIEU OF TAXES    | 0                       | 0                         | 0                         | 0                           |
| (14) DEPRECIATION:              |                         |                           |                           |                             |
| (15) DISTRIBUTION               | 0                       | 0                         | 0                         | 0                           |
| (16) GENERAL PROPERTY           | 0                       | 0                         | 0                         | 0                           |
| (17) INTEREST NET OF AFUDC      | 0                       | 0                         | 0                         | 0                           |
| (18) PREFERRED DIVIDENDS        | 0                       | 0                         | 0                         | 0                           |
| (19) CORPORATE TAXES            | 0                       | 0                         | 0                         | 0                           |
| (20) NON-OPERATING REVENUE:     |                         |                           |                           |                             |
| (21) LATE PAYMENT CHARGE        | -5,330                  | 0                         | 0                         | -5,330                      |
| (22) MISC. ELECTRIC             | -1,969                  | 0                         | 0                         | -1,969                      |
| (23) OTHER REVENUE              | -737                    | 0                         | 0                         | -737                        |
| (24) RETURN (PROFIT/LOSS)       | 0                       | 0                         | 0                         | 0                           |
| (26) TOTAL RETAIL               | \$51,629                | \$0                       | \$0                       | \$51,629                    |
| (27) TOTAL NET EXPENSES         | <u>\$1,277,146</u>      | <u>\$349,825</u>          | <u>\$813,800</u>          | <u>\$113,521</u>            |

## NON-CONFIDENTIAL

| 1  | Request DR-17:   |
|----|--|
| 2  |  |
| 3  | Reference: Distribution Tariff Draft and Attachments                                       |
| 4  |  |
| 5  | Re page 11, Lines 23-25, please provide details of how rate base and expenses are adjusted |
| 6  | to remove the Municipals.  |
| 7  |  |
| 8  | Response DR-17:  |
| 9  |  |
| 10 | Please refer to the following table.   |
| 11 |  |

| Category           | Total             | Transmission<br>connected<br>customers | Municipal Class           | Total Net of<br>Municipal<br>Class |  |
|--------------------|-------------------|--|---------------------------|------------------------------------|--|
|                    |                   |  |                           |                                    |  |
| Revenue Require    | ment (in thousa   | ands of \$'s)                          |                           |                                    |  |
|                    |                   |  |                           |                                    |  |
| Distribution       | \$188,147         | NA                                     | \$801                     | \$187,346                          |  |
|                    |                   |  | Exh 6,( Page 1, line 43,  |                                    |  |
|                    | Exh 5, Page 3     |  | col 10 + Page 4, line 14, |                                    |  |
| COS reference      | line 35, col 1    |  | col 10)                   |                                    |  |
|                    |                   |  |                           |                                    |  |
| Retail             | \$51,629          | \$271                                  | \$176                     | \$51,182                           |  |
|                    |                   | (Exh 6, (Page 4,                       |                           |                                    |  |
|                    |                   | line 38, col 8)*                       |                           |                                    |  |
|                    |                   | 5/32 + (Page 4,                        |                           |                                    |  |
|                    | Exh 5, Page 4,    | line 38 col 1) *                       | (Exh 6, Page 4, line 38   |                                    |  |
| COS reference      | line 26, col 1    | 2/8                                    | col 1) * 6/8              |                                    |  |
|                    |                   |  |                           |                                    |  |
| Rate Base (In thou | isands of \$'s)   |  |                           |                                    |  |
|                    | <b></b>           |  | <b>•</b> • • • • • • •    | <b>•</b>                           |  |
| Distribution       | \$769,145         | NA                                     | \$2,826                   | \$766,319                          |  |
|                    |                   |  | Exh 3,( Page 1, line 42,  |                                    |  |
|                    | Exh 2A, Page      |  | col 10 + Page 5, line 20, |                                    |  |
| COS reference      | 2, line 53, col 1 |  | col 10)                   |                                    |  |
|                    |                   |  |                           |                                    |  |

12

- 1 Please note that the value of the retail cost of retail customers set at \$51,088 in the DT Strawman
- 2 Report is incorrect due to an error in the original calculation. The correct value is \$51,182. The
- 3 Company will make an adjustment to the DT Tariff calculations to address this issue.

| 1  | Request DR-18:   |
|----|--|
| 2  |  |
| 3  | Reference: Distribution Tariff Draft and Attachments   |
| 4  |  |
| 5  | Re page 12, Lines 1-3, does the COS distribution rate base and expenses already reflect        |
| 6  | that there are seven transmission connected customers? If not, what adjustments are            |
| 7  | necessary?   |
| 8  |  |
| 9  | Response DR-18:  |
| 10 |  |
| 11 | The COS distribution rate base and expenses already reflect that there are seven transmission- |
| 12 | connected customers. No adjustments are necessary.   |

| 1  | Request DR-19:  |
|----|---|
| 2  |   |
| 3  | Reference: Distribution Tariff Draft and Attachments  |
| 4  |   |
| 5  | Re page 12, Lines 14-15, please specify for each BTL what "applicable bundled ATL                   |
| 6  | service" would apply.   |
| 7  |   |
| 8  | Response DR-19:   |
| 9  |   |
| 10 | The Large Industrial Distribution Tariff would apply to all distribution-connected large industrial |
| 11 | customers billed under any Below-The-Line rates.  |
| 12 |   |
| 13 | The Large General Distribution Tariff would apply to all distribution-connected large general       |
| 14 | customers billed under any Below-The-Line rates, other than the Shore Power rate. For               |
| 15 | customers billed under the Shore Power rate, the distribution component of the bundled Shore        |
| 16 | Power rate would apply.   |

## NON-CONFIDENTIAL

| 1  | Request DR-20:  |
|----|---|
| 2  |   |
| 3  | Reference: Distribution Tariff Draft and Attachments  |
| 4  |   |
| 5  | Re page 15, Lines 1-6, how much of the \$83.3 million relates to distribution and retail and    |
| 6  | what effect (in percentage terms) does its exclusion have on the revenue requirement of the     |
| 7  | proposed DT?  |
| 8  |   |
| 9  | Response DR-20:   |
| 10 |   |
| 11 | The fixed cost deferral of \$83.3 million was determined in the 2013 GRA proceeding outside of  |
| 12 | the Cost of Service framework. The deferral represents the remaining portion of the total       |
| 13 | revenue requirements in test years 2013 and 2014, after accounting for a 3% annual increase in  |
| 14 | composite rates. The \$83.3 million of fixed costs whose recovery through rates was deferred in |
| 15 | years 2013-2014 is included in the Cost of Service.   |
| 16 |   |
| 17 | NS Power does not have functional area-specific fixed cost deferral information on the basis of |

18 which it could determine a portion of the deferral attributable to distribution and retail.

| 1  | Request DR-21:  |
|----|---|
| 2  |   |
| 3  | Reference: Distribution Tariff Draft and Attachments  |
| 4  |   |
| 5  | Re page 26, Lines 2-4, are not all RtR customers required to have the TOD meters?               |
| 6  |   |
| 7  | Response DR-21:   |
| 8  |   |
| 9  | Yes, NS Power recommends that all Renewable to Retail customers be required to have             |
| 10 | interval/time-of-day meters with remote polling capability.                                     |
| 11 |   |
| 12 | The proposed differentiated rate treatment between residential customers billed under the non-  |
| 13 | TOD and TOD rates is based on the assumption, originally contemplated by NS Power, that no      |
| 14 | interval metering would be required for RtR customers. The text in the "Domestic Time of Day    |
| 15 | rates" section on pages 25 and 26 has not been updated to reflect a change in this assumption.  |
| 16 | With the Company's proposal that all RtR customers are required to have interval metering,      |
| 17 | there is no longer a need to differentiate residential customer charges between the non-TOD and |
| 18 | TOD customers. All open access residential customers will be, therefore, proposed to continue   |
| 19 | to pay the same charge of \$10.83. Any incremental operational costs associated with interval   |
| 20 | metering, undetermined at this point, will be proposed to flow through to energy charges.       |

| 1                                | Request DR-22:   |
|----------------------------------|--|
| 2                                |  |
| 3                                | Reference: Distribution Tariff Draft and Attachments   |
| 4                                |  |
| 5                                | Re Distribution Tariff, Section 4 – Is this section necessary? For what purpose?   |
| 6                                |  |
| 7                                | Response DR-22:  |
| 8                                |  |
| 9                                | Section 4 of the draft Distribution Tariff states:   |
| 10                               |  |
| 11<br>12<br>13<br>14<br>15<br>16 | The Distribution Tariff has been approved by the Board. Nothing contained in the Distribution Tariff shall be construed as affecting in any way the right of NS Power to unilaterally make application to the Board for a change in any rates (including the Distribution Tariff rates set out in Appendix A), terms and conditions, charges, classification of service, rules or regulations. |
| 17                               | This section was included in the Distribution Tariff for consistency with our Open Access  |
| 18                               | Transmission Tariff in which it is included in Section 9.0 with the intent of providing clarity to   |
| 19                               | users with respect to NS Power's right to make application to the Board for changes in the   |
| 20                               | Distribution Tariff's elements.  |

| 1  | Request DR-23:   |
|----|--|
| 2  |  |
| 3  | Reference: Distribution Tariff Draft and Attachments   |
| 4  |  |
| 5  | Re Distribution Tariff, Section 7 – Does the last paragraph fit here, under the heading "Ns      |
| 6  | Power Responsibilities"?   |
| 7  |  |
| 8  | Response DR-23:  |
| 9  |  |
| 10 | No, the last paragraph should not be included in the Distribution Tariff Section 7, and has been |
| 11 | deleted. The clause is properly located in the LRS Terms and Conditions document, in Section     |
| 12 | 8.1.   |

## NON-CONFIDENTIAL

| 1  | Requ   | lest DR-24:                     |   |  |
|----|--|---------------------------------|---|--|
| 2  |  |                                 |   |  |
| 3  | Reference: Distribution Tariff Draft and Attachments                           |                                 |   |  |
| 4  |  |                                 |   |  |
| 5  | Re Appendix A, please provide derivation of minimum monthly charge of \$17.51. |                                 |   |  |
| 6  |  |                                 |   |  |
| 7  | Resp   | onse DR-24:                     |   |  |
| 8  |  |                                 |   |  |
| 9  | Starti   | ng with the 2013 GRA, NS Po     | wer has increased the minimum charge of the Miscellaneous     |  |
| 10 | Smal   | l Load rate commensurate w      | ith the overall increase in the unmetered base cost rates     |  |
| 11 | (elect   | ric service component before f  | ixture capital and maintenance). The charge of \$17.51 is the |  |
| 12 | outco  | ome of the cumulative effect of | three rate increases:   |  |
| 13 |  |                                 |   |  |
| 14 | 1.   | 2012 GRA:                       | 12.65 * 1.0981 = 13.89  |  |
| 15 | 2.   | 2013 GRA (2013 test year):      | 13.89 * 1.1722 = 16.28  |  |
|    |  |                                 |   |  |

16 3. 2013 GRA (2014 test year): \$16.28 \* 1.0757 = \$17.51

### ENERGY BALANCING SERVICE

The Energy Balancing Service is a supplemental generation service provided to Licenced Retail Suppliers (LRS) in respect of the Licenced Retail Supplier's RtR Customers utilizing the production from renewable low-impact generators. The service consists of delivery of complementary energy to RtR Customers and reception of surplus generation from qualifying generators. The service is required to be taken in conjunction with Standby Service under the Standby Service Tariff so that the reliability of service to RtR Customers is equivalent to that provided under Bundled Service. For the purposes of this Energy Balancing Service Tariff, hourly LRS load in excess of generation is defined as top-up energy and hourly generation in excess of LRS load is defined as spill energy.

All capitalized terms herein shall, unless otherwise defined herein, have the meanings ascribed thereto in the LRS Terms and Conditions.

#### AVAILABILITY

This Energy Balancing Service Tariff is applicable to the LRS in order to facilitate the purchase of renewable low-impact electricity by RtR Customers.

This Energy Balancing Service Tariff is provided under the following terms and conditions:

- (1) The LRS must have a valid LRS Participation Agreement executed with NS Power; and
- (2) The LRS must be providing service to RtR Customers.

#### APPLICABILITY

- (1) An LRS taking service under this Energy Balancing Service Tariff shall also take service under the OATT, the Standby Service Tariff, and the Renewable to Retail Market Transition Tariff.
- (2) The service under this Energy Balancing Service Tariff is based on metered energy quantities, and is independent of the LRS's forecasts. OATT Schedule 4 is not applicable, but the Generation Forecasting Service under Schedule 4A of the OATT is applicable.
- (3) The hourly top-up and spill quantities are determined at the delivery point from the transmission system. The hourly top-up quantity equals the excess in each hour, if positive, of the LRS's aggregate customer load adjusted by the addition of distribution losses over the aggregate renewable low impact electricity supplied by the LRS or its contracted generation adjusted by the deduction of transmission losses. The hourly spill quantity equals the excess in each hour, if positive, of the aggregate renewable low impact electricity supplied by the deduction of transmission losses. The hourly spill quantity equals the excess in each hour, if positive, of the aggregate renewable low impact electricity supplied by the LRS or its contracted generation adjusted by the deduction of

transmission losses over its aggregate customer load adjusted by the addition of distribution losses. The aggregate hourly load quantities are determined in accordance with the applicable provisions in the LRS Terms and Conditions.

- (4) To qualify for this service, the LRS must ensure that the imbalance between low impact renewable generation and energy consumption over the established compliance period conforms to Section 10 of the Board Electricity Retailers Regulations (Nova Scotia) enacted under the Act.
- (5) Maximum Spill Capacity must be approved by NS Power prior to commencement of service and will be limited to a level agreed as being required to provide the contracted annual amount of participating LRS energy. Spill capacity will be reviewed annually and will include the LRS' proposal to mitigate it on a going forward basis. If NS Power is not satisfied with the LRS' proposal, it may impose a limit on hourly production of the LRS's generation portfolio.

## ADMINISTRATION CHARGE

The monthly administration charge is applicable to each LRS and is set annually according to the following formula:

| Monthly charge = | forecast annual administration costs    |
|------------------|---|
|                  | forecast number of LRS's subscribed *12 |

This charge will be \$1,053.03 per month.

#### **ENERGY CHARGE**

Energy charge for top-up service is made up of the following two components:

- 1. Annually adjusted fuel cost component based on NS Power's incremental cost of serving the LRS's forecasted incremental top-up load.
- 2. Fixed cost adder reflective of fixed cost energy-related generation costs.

| Energy Charge Components | Cents per kWh |
|--------------------------|---------------|
| Fuel Cost                | 6.650         |
| Fixed Cost Adder         | 3.309         |
| Total                    | 9.959         |

The charge is applicable to top-up energy consumed in each hour.

## ENERGY CREDIT

The Energy Credit for spill service is set annually, on a calendar year basis, and is made up of two components:

- 1. Monthly compensation for spill energy delivered to NS Power and applicable in each hour of 5.27 cents per kilowatt hour
- 2. The year-end refund to NS Power on monthly compensation in respect of annual excess spill energy above annual consumption of the LRS's RtR Customers recognized without discount as set out in the following table:

| Annual Excess Spill Quantity in the range | Discount Applied | Cents per<br>kWh |
|---|------------------|------------------|
| from 0% to 10% of Annual LRS Load         | 0%               |                  |
|   |                  | 5.270            |
| greater than 10% up to 20% of Annual LRS  | 10%              |                  |
| Load                                      |                  | 4.743            |
| greater than 20% up to 30% of Annual LRS  | 25%              |                  |
| Load                                      |                  | 3.953            |
| greater than 30% of Annual LRS Load       | 50%              |                  |
|   |                  | 2.635            |

## MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the administration charge

## SPECIAL CONDITIONS

- (1) NS Power reserves the right to have a separate service agreement, if in the opinion of NS Power issues not specifically set out herein, must be addressed for the ongoing benefit of NS Power and its customers.
- (2) The LRS's RtR Customers and generators will make all necessary arrangements to ensure that their generation and load do not unduly deteriorate the integrity of the power supply system, either by its design and/or operation. These specific requirements shall be stipulated by way of a written operating agreement.
- (3) In assessing issues which might unduly affect the integrity of the power supply system the

following would be considered: reliability, harmonic voltage and current levels, voltage flicker, unbalance, rate of change in load levels, stability, fault levels and other related conditions.

(4) Nothing contained in this Energy Balancing Service Tariff or any service agreement shall be construed as affecting or in any way limiting the right of NS Power to make application to the Nova Scotia Utility and Review Board for a change in any rates, terms and conditions, charges, classification of service, service agreement, rule or regulation, including, without limitation, the rates, charge or terms and conditions contained in this Energy Balancing Service Tariff, the Standby Service Tariff or the Renewable to Retail Market Transition Tariff.

#### Energy Balancing Service: Administration Charge Calculations

#### Assumptions

(1) One Full Time Equivalent is sufficient to provide admin service in the initial market opening

(2) Assume 4 Licensed Service Providers. Note that this approach aligns with that used under the current Backup/Top-up Tariff.

(3) Admin costs to be shared equally between Energy Balancing and Standby Services

#### Full Time Equivalent (FTE) Cost

| Salary<br>Fringe Benefits<br>Salary (including fringe benefits) | 16.0% | 58,098<br><u>\$9,296</u><br>\$67,394 |
|---|-------|--------------------------------------|
| Administrative Overhead   | 50%   | <u>\$33,697</u>                      |
| Forecast Cost   |       | <u>\$101,090.88</u>                  |

#### Administration Charge Under Energy Balancing Service

#### Customer Charge Under BackUp Rate

| Annual Cost (50% of total)    | \$50,545   |
|-------------------------------|------------|
| Number of LRS                 | 4          |
| Monthly Administration Charge | \$1,053.03 |

#### Standby Service: Customer Charge Calculations

#### Full Time Equivalent (FTE) Cost

| Salary<br>Fringe Benefits<br>Salary (including fringe benefits) | 16.0% | 58,098<br><u>\$9,296</u><br>\$67,394 |
|---|-------|--------------------------------------|
| Administrative Overhead   | 50%   | <u>\$33,697</u>                      |
| Forecast Cost   |       | <u>\$101.091</u>                     |

#### Administration Charge Under Standby Service

| Annual Cost (50% of total)    | \$50,545   |
|-------------------------------|------------|
| Number of LRS                 | 4          |
| Monthly Administration Charge | \$1,053.03 |

#### Item # Annual Avoided Fuel Cost Calculations

| Source   |   | Annual GWh Load<br>at Transmission<br>Level | Cost                        | Avoided Unit Cost<br>(c/kWh) | Comments/Assumptions  |
|--|---|---|-----------------------------|------------------------------|---|
| 1 Plexos Simulations   | Avoided Costs<br>Avoided Costs of departing customer Load<br>before taking energy balancing service from<br>NS Power.                               | 219   | \$13,052,400                | 5.96                         | Going forward the Company intends to use forecast load and hourly<br>loadshape of customers served in the RtR market. For the purpose<br>0 of this simulation the Company used flat 25 MW decrement.  |
| 2 Plexos Simulations<br>3  | Avoided Costs of departing customer Load<br>after taking energy balancing service from NS<br>Power<br>Cost Differential between items 1 and 2 above | 219   | \$11,541,300<br>\$1,511,100 | 5.27                         | Going forward the Company intends to use NS Power's system hour<br>loadshape which will reflect the combined effect of hourly load of<br>departing customers to the RtR market and 3rd party renewable<br>generation under assumption that some of it may be curtailed. For<br>the purposes of this simulation the Company used only the effect of<br>0 3rd party renewable generation under no curtailment assumption.<br>This is an incremental fuel cost arising from provision of energy<br>balancing service to departed customers |
| 4  | Spill Energy Credit rate  |   |                             | 5.27                         | 0 Set at par with unit avoided costs under item #2.   |
| 5  | Top-up Energy Rate Calculation  |   |                             |                              |   |
| 5.1  | Avoided Fuel Cost Component   |   |                             |                              |   |
| 5.1.1  | Average avoided cost after energy balancing service   |   |                             | 5.27                         | 0 Set at par with unit avoided costs under item #2.   |
| 5.1.2  | Incremental costs associated with energy<br>balancing service<br>Fuel Cost charge   | 109.5                                       | \$1,511,100                 | <u>1.38</u><br>6.65          | Going forward the Company intends to use forecast annual top-up<br>energy in the RtR market in calculation of this charge. For now a<br>simplifying assumption was made that top-up energy accounts for<br>50% of the total energy consumed in the RtR market (219 GWh/2 =<br>0 109.5 GWh)<br>0   |
| 4.2  | Energy-related fixed cost Component   |   |                             |                              |   |
| Appendix C 2014<br>COS Costs -<br>Exhibit 5; page 1<br>Energy - Exhibit<br>9A, line 11, col 3<br>divided by a<br>transmission loss<br>factor of 1.032. | Fixed Energy-related Cost in '000's of \$<br>Charge in cents per kWh  | 9,507,746                                   | \$314,631,000               | 3.30                         | Calculated as follows: total of \$753,049 (less fuel of \$367,943,<br>purchased power regular of \$507, purchased biomass power \$1159<br>purchased wind power of \$59,982, purchased imports of \$217; plus<br>9 export sales of \$1,826   |



## Top-up Energy Rate Calculation

| Energy-related fixed cost Component        |           |
|--|-----------|
| COST                                       |           |
| Energy Expenses (Generation Function) from |           |
| COSS Exh 5, cell E42                       | 753049000 |
| Fuel                                       | 367943000 |
| Purchased Power regular                    | 507000    |
| Purchased Biomass Power                    | 11595000  |
| Purchased Wind Power                       | 59982000  |
| Purchased Imports                          | 217000    |
| Export Sales                               | 1826000   |
|  | 314631000 |
| Annual GWh Load at Transmission Level      |           |
| Energy Requirement from COSS Exh 9a        |           |
| Annual and DOA                             | 0011001   |

|                                      | 9507746.124 |
|--------------------------------------|-------------|
| Transmsission Loss Factor from XXXXX | 1.032       |
| Annual, cell D24                     | 9811994     |

Renewable to Retail NSUARB IR-8 Attachment 8 Page 1 of 6 Renewable to Retail Application Appendix 12 Page 17 of 22



JUNE 8, 2015

## Proposed Energy Balancing Service and Standby Service Tariffs for the Renewable to Retail Market

energy everywhere.<sup>™</sup>

## Legislative Directive – Electricity Reform Act

"NS Power shall develop in consultation with stakeholders, and file with the Board for approval, any tariffs, ... and any amendments to existing tariffs ..., that are necessary to facilitate the purchase of renewable low-impact electricity ... including

- a new or amended backup/top-up service tariff
- a new or amended non-dispatchable supplier spill tariff



## Rationale

- The output of non-dispatchable low impact renewable generation cannot be controlled on-demand by the operator and matched with RtR customer load on an hourly basis.
- In hours when generation falls below customer load, the utility must provide top-up energy.
- In hours of surplus generation (spill), the utility must absorb it into its system.
- To ensure that service to RtR customers is reliable, the utility must also provide backup/standby service.

# **BUTUS redesign for RtR**

- Energy Balancing Service (EBS) and Standby Service (SS) will be mandatory services provided by NS Power to Licensed Retail Suppliers
- Cost-based: no cost transfer to bundled service customers
- Top-up and Spill services combined into Energy Balancing Service
- Backup service replaced by Standby Service



# Proposed design of EBS

For the RtR Market, NS Power proposes a new Energy Balancing Service

- Customer charge based on incremental admin costs
- Energy charge for top-up (10.101 ¢/kWh) to include:
  - Annually adjusted fuel cost (6.650 ¢/kWh)
  - Fixed cost for fixed energy-related gen costs (3.451 ¢/kWh)
    - » Same philosophy as used in Shore Power rate
- Energy credit (5.27 ¢/kWh) for spill to include
  - Monthly credit reflective of value of incremental energy
  - Year-end compensation adjustment for surplus Spill energy
  - Max. Spill Capacity subject to NS Power approval
- Generation scheduling similar to Market Rules and OATT with addition of a charge for forecasting discrepancies – OATT Schedule 4A: Generation Forecasting Service.
- RtR Load included in NSP system load schedule

Note: Rates shown are indicative and conditional on the Board's approval.



# Proposed design of Standby Service

- Instead of amending existing Backup rate, NS Power proposes new SS service for RtR market.
  - Customer charge based on incremental admin costs.
  - Non-coincident Billing demand replaced with ratcheted Monthly Coincident Demand (MCD).
    - MCD is maximum firm demand coincident with system peaks Dec, Jan, Feb.
    - Separate coincidence values for each (firm) rate class of the LRS' RtR customers, interruptible customers excluded.
    - Recognizes contributions to capacity from 3rd party generators.
  - MCD charge is \$5.370/month/kW of maximum firm coincident demand

Note: Rates shown are indicative and conditional on the Board's approval.



| 1  | Request DR-25:  |
|----|---|
| 2  |   |
| 3  | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation                      |
| 4  | Forecasting Service (GFS) Proposals   |
| 5  |   |
| 6  | Please provide the derivation of all charges in the EBS tariff.                                     |
| 7  |   |
| 8  | Response DR-25:   |
| 9  |   |
| 10 | Please refer to Attachment 1, also provided electronically, for derivation of the administration    |
| 11 | charge, energy charge and monthly energy credit. The avoided cost results are preliminary at        |
| 12 | this stage. Some of the cost and load figures are estimates at this stage and are used for          |
| 13 | illustrative purposes.  |
| 14 |   |
| 15 | The proposed year-end refund to the Company for excess spill has been designed to align             |
| 16 | directionally with the perceived progression in costs of displaced generation, but is not rooted in |
| 17 | actual cost analysis at this point. The Company is in the process of conducting an analysis of      |
| 18 | displaced costs at various RtR service uptake levels using Plexos. Upon completion, the             |
| 19 | Company will review and refine the calculation.   |

#### Energy Balancing Service: Administration Charge Calculations

Assumptions

(1) One Full Time Equivalent is sufficient to provide admin service in the initial market opening

(2) Assume 4 Licensed Service Providers. Note that this approach aligns with that used under the current Backup/Top-up Tariff.

(3) Admin costs to be shared equally between Energy Balancing and Standby Services

| Full Time Equivalent (FTE) Cost  |           |                                      |
|--|-----------|--------------------------------------|
| Salary<br>Fringe Benefits<br>Salary (including fringe benefits)                            | 16.0%     | 58,098<br><u>\$9,296</u><br>\$67,394 |
| Administrative Overhead  | 50%       | <u>\$33,697</u>                      |
| Forecast Cost  | <u>\$</u> | 101,090.88                           |
| Administration Charge Under Energy Balancing Service                                       |           |                                      |
| Customer Charge Under BackUp Rate  |           |                                      |
| Annual Cost (50% of total)   |           | \$50,545                             |
| Number of LRS  |           | 4                                    |
| Monthly Administration Charge  |           | \$1,053.03                           |
| Standby Service: Customer Charge Calculations  |           |                                      |
| Full Time Equivalent (FTE) Cost  |           |                                      |
| Salary<br>Fringe Benefits<br>Salary (including fringe benefits)                            | 16.0%     | 58,098<br><u>\$9,296</u><br>\$67,394 |
| Administrative Overhead  | 50%       | <u>\$33,697</u>                      |
| Forecast Cost  |           | <u>\$101,091</u>                     |
|  |           |                                      |
| Administration Charge Under Standby Service  |           |                                      |
| Administration Charge Under Standby Service<br>Annual Cost (50% of total)                  |           | \$50,545                             |
| Administration Charge Under Standby Service<br>Annual Cost (50% of total)<br>Number of LRS |           | \$50,545<br>4                        |

#### Item # Annual Avoided Fuel Cost Calculations

| Source   |   | Annual<br>GWh Load | Cost          | Avoided Unit Cost<br>(c/kWh) | Comments/Assumptions  |
|--|---|--------------------|---------------|------------------------------|---|
| Plexus<br>1 Simulations  | Avoided Costs<br>Avoided Costs of departing customer<br>Load before taking energy balancing<br>service from NS Power. | 219                | \$13,052,400  | 5.960                        | Going forward the Company intends to use forecast load<br>and hourly loadshape of customers served in the RtR<br>market. For the purposes of this simulation the Company<br>used flat 25 MW decrement.  |
| Plexus<br>2 Simulations  | Avoided Costs of departing customer<br>Load after taking energy balancing<br>service from NS Power                    | 219                | \$11,541,300  | 5.270                        | Going forward the Company intends to use NS Power's<br>system hourly loadshape which will reflect the combined<br>effect of hourly load of departing customers to the RtR<br>market and 3rd party renewable generation under<br>assumption that some of it may be curtailed. For the<br>purposes of this simulation the Company used only the<br>effect of 3rd party renewable generation under no<br>curtailment assumption. |
| 3  | Cost Differential between items 1 and 2 ab  | ove                | \$1,511,100   |                              | This is an incremental fuel cost arising from provision of energy balancing service to departed customers   |
|  |   |                    |               |                              |   |
| 4  | Spill Energy Credit rate  |                    |               | 5.270                        | Set at par with unit avoided costs under item #2.   |
|  |   |                    |               |                              |   |
| 5  | Top-up Energy Rate Calculation  |                    |               |                              |   |
| 5.1  | Avoided Fuel Cost Component   |                    |               |                              |   |
| 5.1.1  | Average avoided cost after energy<br>balancing service  |                    |               | 5.270                        | Set at par with unit avoided costs under item #2.   |
| 5.1.2  | Incremental costs associated with energy<br>balancing service<br>Fuel Cost charge                                     | 109.5              | \$1,511,100   | <u>1.380</u><br>6.650        | Going forward the Company intends to use forecast annual top-up energy in the RtR market in calculation of this charge. For now a simplifying assumption was made that top-up energy accounts for 50% of the total energy consumed in the RtR market (219 GWh/2 = 109.5 GWh)  |
| 4.2  | Energy-related fixed cost Componer  | nt                 |               |                              |   |
| Appendix C 2014<br>COS Costs -<br>Exhibit 5, page 1<br>Energy - Exhibit<br>9A, line 11, col 1. | Fixed Energy-related Cost in '000's of \$<br>Charge in cents per kWh<br>Total top-up charge in cents per kWh          | 9,116,236          | \$314,631,000 | 3.451<br><b>10.101</b>       | Calculated as follows: total of \$753,049 less fuel of<br>\$367,943, purchased power regular of \$507, purchased<br>biomass power \$11595, purchased wind power of \$59,982,<br>purchased imports of \$217; plus export sales of \$1,826  |

| 1                    | Request DR-27:   |
|----------------------|--|
| 2                    |  |
| 3                    | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation   |
| 4                    | Forecasting Service (GFS) Proposals  |
| 5                    |  |
| 6                    | With respect to the EBS APPLICABILITY Clause 4, would it make sense to replace this  |
| 7                    | clause with some reference to Board regulations that address this, to ensure consistency   |
| 8                    | (particularly considering that the Board regulation on this issue is still under   |
| 9                    | development)?  |
| 10                   |  |
| 11                   | Response DR-27:  |
| 12                   |  |
| 13                   | The EBS Availability Clause (4) states:  |
| 14                   |  |
| 15<br>16<br>17<br>18 | To qualify for this service, the LRS must ensure that low impact renewable generation meets the kWh energy needs of its customers on an annual basis. This requires that top-up energy not exceed spill energy on an annual basis. |
| 19                   | The Company concurs with Multeese's suggestion and proposes the following changes to the   |
| 20                   | wording of Clause (4):   |
| 21                   |  |
| 22<br>23<br>24       | To qualify for this service, the LRS must ensure that the imbalance between low impact renewable generation and energy consumption over the established compliance period conforms to Section 10 of the Board-approved Regulation. |

| 1  | Request DR-34:   |
|----|--|
| 2  |  |
| 3  | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation                   |
| 4  | Forecasting Service (GFS) Proposals  |
| 5  |  |
| 6  | Please discuss whether the fixed cost adder in the EBS includes the cost of the GFS.             |
| 7  |  |
| 8  | Response DR-34:  |
| 9  |  |
| 10 | The fixed cost adder in the EBS tariff does not include costs incurred by RtR generators in      |
| 11 | forecasting its generation.  |
| 12 |  |
| 13 | The adder also does not include the cost to the Company associated with inaccurate generation    |
| 14 | forecasts provided by RtR generators. While such costs exist they are difficult to determine.    |
| 15 | The proposed compensation mechanism under Schedule 4A is aligned with the payment                |
| 16 | structure under Generation Energy Imbalance for Non-Dispatchable Generators in Schedule 4.       |
| 17 | Under both schedules generators see similar disincentives equivalent to 10% of marginal cost per |
| 18 | each MWh falling outside of a deviation band of +/-10% (with a minimum deviation band of +/-     |
| 19 | 2 MW). Please refer also to Multeese DR-33.  |

## Renewable to Retail (NSUARB M06214) NSPI Responses to Port Hawkesbury Paper Data Requests

| 1  | Requ         | est DR-1:  |
|----|--------------|--|
| 2  |              |  |
| 3  | On th        | e slide entitled "Proposed Design of EBS, NSPI states that the energy charge for top-        |
| 4  | up wi        | ll include an annually adjusted fuel cost of 6.650 cents/kWh and fixed cost for fixed        |
| 5  | energ        | y-related generation costs of 3.451 cents/kWh, and the Energy credit for spill will be       |
| 6  | 5.27 c       | ents/kWh.  |
| 7  |              |  |
| 8  | (a)          | Please confirm that the annually adjusted fuel cost is a forecast that will be changed       |
| 9  |              | annually and provide the supporting calculations for the 6.650 cents/kWh figure.             |
| 10 |              |  |
| 11 | <b>(b)</b>   | Please provide the supporting calculation for the 5.27 cents/kWh energy credit for           |
| 12 |              | spill figure, and indicate whether this is also based on a forecast.                         |
| 13 |              |  |
| 14 | (c)          | Please provide an explanation as to why the fuel component of the energy charge for          |
| 15 |              | top-up is significantly higher than the energy credit for spill.                             |
| 16 |              |  |
| 17 | ( <b>d</b> ) | Will the energy credit for spill also be subject to change on an annual basis, and if        |
| 18 |              | so, what process would be followed to change this figure?                                    |
| 19 |              |  |
| 20 | <b>(e)</b>   | Is it NSPI's position that the fixed energy-related generation costs would not be            |
| 21 |              | incurred absent the energy balancing service? If not, please explain the rationale           |
| 22 |              | for including this cost in the energy charge for top-up, given that these costs would        |
| 23 |              | be incurred anyway.  |
| 24 |              |  |
| 25 | Respo        | nse DR-1:  |
| 26 |              |  |
| 27 | (a-b)        | Confirmed. Please refer to Multeese DR-25 for supporting calculations.                       |
| 28 |              |  |
| 29 | (c)          | The variable cost element of top-up is higher than the variable cost credit for spill. There |
| 30 |              | are a number of contributing factors:  |
## Renewable to Retail (NSUARB M06214) NSPI Responses to Port Hawkesbury Paper Data Requests

## NON-CONFIDENTIAL

|     | (i)        | There is a non-fuel variable cost associated with the management of top-up and   |
|-----|------------|--|
|     |            | spill. This is added to the top-up rate but deducted from the spill credit.  |
|     |            |  |
|     | (ii)       | Irrespective of the RtR generation profile, it can be expected that top-up will be   |
|     |            | required more often at times of above average RtR load which can reasonably be   |
|     |            | expected to coincide with above average system load (with a tendency for higher  |
|     |            | marginal generation cost), and spill will be more prevalent at times of below  |
|     |            | average RtR load which can reasonably be expected to coincide with below   |
|     |            | average system load (with a tendency for lower marginal generation cost). This   |
|     |            | effect will contribute to the variable top-up rate being higher than the spill credit.   |
|     |            |  |
|     | (iii)      | There is a large quantity of wind generation already connected to and supplying,   |
|     |            | or committed for supply to, the Nova Scotia system. RtR wind generation will   |
|     |            | have a production profile strongly correlated with the production profile of this  |
|     |            | other existing or committed wind generation. RtR wind generation will therefore  |
|     |            | have high production, with a tendency to produce spill, at times of high system  |
|     |            | wind production and thus of low system marginal fuel cost. Top-up is likely to be  |
|     |            | required in respect of RtR wind generation at times of low system wind   |
|     |            | production, and thus of higher system marginal fuel cost.  |
|     |            |  |
| (d) | The er     | nergy credit will be changed on annual basis. Please refer to Multeese DR-25 for   |
|     | more of    | details.   |
|     |            |  |
| (e) | The C      | ompany needs generation resources to deliver top-up service. In accordance with  |
|     | the Co     | ompany's Cost of Service methodology, the total fixed costs of the generation  |
|     | resour     | ces required are classified into those recoverable from demand and recoverable   |
|     | from e     | energy. The backup tariff addresses recovery of costs classified as recoverable from   |
|     | deman      | nd, and the energy balancing tariff addresses recovery of costs classified as  |
|     | recove     | erable from energy. The energy supplied under this tariff is top-up energy, and the  |
|     | (d)<br>(e) | <ul> <li>(i)</li> <li>(ii)</li> <li>(iii)</li> <li></li></ul> |

1

## Renewable to Retail (NSUARB M06214) NSPI Responses to Port Hawkesbury Paper Data Requests

| 1 | fixed cost recovery is therefore applicable to this quantity. There is no reduction in NS  |
|---|--|
| 2 | Power's fixed generation costs due to RtR spill, so there is no corresponding spill credit |
| 3 | in respect of those fixed costs.   |

## STANDBY SERVICE

Standby Service is a supplemental generation capacity service provided to Licenced Retail Suppliers (LRS). The service is provided in combination with Energy Balancing Service under the Energy Balancing Service Tariff. The service has two components:

**Capacity adequacy service** – fulfillment of the LRS's obligation to provide or pay for its share of firm capacity required to meet adequacy standards of the Nova Scotia electricity system arising from forced and unforced generation outages. Energy delivered during generation outages will be billed under the Energy Balancing Service Tariff.

**Top-up capacity service** – provision of capacity to support energy delivery through the Energy Balancing Service in respect of imbalance between load and generation.

All capitalized terms herein shall, unless otherwise defined herein, have the meanings ascribed thereto in the LRS Terms and Conditions.

## AVAILABILITY

This Standby Service Tariff is applicable to the LRS to facilitate the purchase of renewable lowimpact electricity by RtR Customers.

This Standby Service Tariff is provided under the following terms and conditions:

- (1) The LRS must have a valid LRS Participation Agreement executed with NS Power; and.
- (2) The LRS must be providing service to RtR Customers.

## APPLICABILITY

- (1) An LRS taking service under this Standby Service Tariff shall also take service under Open Access Transmission Tariff (OATT), the Energy Balancing Service Tariff and the Renewable to Retail Market Transition Tariff.
- (2) The service under this Standby Service Tariff is complementary to the generation ancillary services to the Renewable to Retail market under OATT.
- (3) The aggregate hourly load quantities are determined at the delivery point from the transmission system, inclusive of distribution system losses, in accordance with the provisions of the LRS Terms and Conditions.
- (4) This service is applicable to firm load only.

## **ADMINISTRATION CHARGE**

The monthly administration charge is applicable to each LRS and is set annually according to the following formula:

Monthly charge = <u>forecast annual administration costs</u> forecast number of LRS's subscribed \*12

This charge will be \$1,053.03 per month.

## **DEMAND CHARGE**

\$5.370 per month, per kilowatt (kW) of monthly standby contract demand.

## MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the administration charge.

## DETERMINATION OF MONTHLY STANDBY CONTRACT DEMAND

Monthly Standby Contract Demand (MSCD) in kW is determined using the following formula:

 $MSCD = LWPFD - min (LWPFD, (\sum_{i=1}^{n} CCi * GCi)/(1+PR))$ 

Where :

LWPFD is LRS Winter Peak Firm Demand in respect of each billing month calculated as follows:

LWPFD =  $\sum_{i=1}^{k} (CMPFDi * CMDAFi)$ 

"k" is the number of otherwise applicable bundled service rate classes to RtR customers of LRS.

"CMPFDi" is hourly kW Class Monthly Peak Firm Demand of the LRS firm load in each tariff class at the time of system coincident firm load peak in each month at transmission delivery points (i.e. inclusive of distribution system losses). The CMPFD for the unmetered customer class shall be determined by use of research based class load profile data.

"CMDAFi" is the Class Monthly Demand Adjustment Factor applicable to each class as set out below:

| Classes               | Jan, Feb, Dec | Mar, Apr | May, June | Jul, Aug, Sep | Oct, Nov |
|-----------------------|---------------|----------|-----------|---------------|----------|
| Domestic              | 1.00          | 1.27     | 1.67      | 2.17          | 1.47     |
| Small General         | 1.00          | 1.21     | 1.32      | 1.09          | 1.28     |
| General               | 1.00          | 1.12     | 1.32      | 1.05          | 1.19     |
| Large General         | 1.00          | 1.05     | 1.04      | 0.78          | 0.99     |
| Small Industrial      | 1.00          | 1.06     | 1.01      | 0.94          | 1.00     |
| Medium Industrial     | 1.00          | 1.14     | 1.08      | 1.01          | 1.02     |
| Large Industrial Firm | 1.00          | 1.10     | 1.03      | 0.89          | 1.09     |
| Unmetered             | 1.00          | 8.24     | 7.90      | 7.68          | 2.28     |

"PR" is Planning Reserve (%) (based on Northeast Power Coordinating Council planning criteria, i.e., 20% or as updated)

"CCi" is a capacity contribution factor of LRS' generator to NS Power's system peak as determined by NS Power. The capacity contribution factor may be the subject of periodic adjustment if operating conditions of the generator, such as a prolonged deration, depart from those assumed by NS Power.

"GCi" is the generator capacity dedicated to serving LRS load.

"n" is the total number of LRS' generators including those under contract.

## SPECIAL CONDITIONS

- (1) NS Power reserves the right to have a separate service agreement, if in the opinion of NS Power issues not specifically set out herein, must be addressed for the ongoing benefit of NS Power and its customers.
- (2) The LRS's RtR Customers and generators will make all necessary arrangements to ensure that their generation and load do not unduly deteriorate the integrity of the power supply system, either by its design or operation. These specific requirements shall be stipulated by way of a written operating agreement.
- (3) In assessing issues which might unduly affect the integrity of the power supply system the following would be considered: reliability, harmonic voltage and current levels, voltage flicker, unbalance, rate of change in load levels, stability, fault levels and other related conditions.

(4) Nothing contained in this Standby Service Tariff or any service agreement shall be construed as affecting or in any way limiting the right of NS Power to make application to the Nova Scotia Utility and Review Board for a change in any rates, terms and conditions, charges, classification of service, service agreement, rule or regulation, including, without limitation, the rates, charge or terms and conditions contained in this Standby Service Tariff, the Energy Balancing Service Tariff or the Renewable to Retail Market Transition Tariff.

## Renewable to Retail NSUARB IR-8 Attachment 11 Page 1 of 1 Renewable to Retail Application Appendix 13 Page 112 of 146

### ELECTRONIC Renewable to Retail Multeese DR-29 Attachment 1 Page 1 of 1

|  |  |                            |              |                       | Comments/  |
|--|--|----------------------------|--------------|-----------------------|--|
| Source   | Category   |                            |              |                       | Assumptions  |
|  | Demand-related Costs                               | Cost in thousa             | ands of \$'s |                       |  |
| Appendix C<br>2014 COS<br>Costs - Exhibit 5,<br>page 1, column<br>2. | Demand-related fixed gen costs net of fuel costs   |                            | \$167,212    |                       | Calculated as follows: total of<br>\$176,854 k less purchased<br>power regular of \$390 k,<br>purchased biomass power<br>\$2,205 k, purchased wind<br>power of \$7,048 k |
| GRA 2013 DE-   | Less: Ancillary generation-related costs recovered | under OATT                 |              |                       |  |
| 03 - DE-04   | Reactive Supply & Voltage Control                  | \$4 329                    |              |                       |  |
|  | Regulation & Frequency                             | \$5.002                    |              |                       |  |
|  |  | \$0,092<br>\$10,092        |              |                       |  |
| Allachiment S  | Operating Reserve - Spinning (10 min)              | \$10,220<br>\$2,009        |              |                       |  |
| pages / anu o,   | Operating Reserve - Spinning (10 min)              | \$3,900<br>¢7,705          |              |                       |  |
| Figures 3-7 and  | Operating Reserve - Supplemental (10 min)          | \$7,785                    |              |                       |  |
| 3-8  | Operating Reserve - Supplemental (30 min)          | <u>\$6,598</u><br>\$45 937 |              |                       |  |
|  | Domand related fixed Con Costs not of Appillary S  | orvico Costo?              | ¢101 075     |                       |  |
|  | Demand-related fixed Gen. Costs fiel of Anchary S  | ervice Costss              | φ121,275     |                       |  |
|  | Capacity Usage in kW                               |                            |              |                       |  |
|  | Transmission Loss at 69 kV                         |                            |              | 3.2%                  | 1  |
|  |  | Sum of 3                   |              |                       |  |
|  |  | Coincident                 |              |                       |  |
|  |  | Winter Peaks               | 3CP Mo       | nthly Ave<br>At 69 kV |  |
|  |  | At Generato                | or's Gate    | Transmission          |  |
|  | (1) DOMESTIC                                       | 3 327 702                  | 1.109.234    | 1.074.881             |  |
|  | (2) SMALL GENERAL                                  | 123 720                    | 41 240       | 39 963                |  |
|  | (3) GENERAL  | 1 361 828                  | 153 9/3      | 130 884               |  |
|  | ( 4) GENERAL LARGE                                 | 161 337                    | 53 770       | 52 11 <i>1</i>        |  |
|  |  | 116 650                    | 20 002       | 27 670                |  |
| Annondius  |  | 110,000                    | 30,003       | 37,079                |  |
|  |  | 225,735                    | 75,245       | 72,915                |  |
| 2014 005   |  | 318,264                    | 106,088      | 102,802               |  |
| Costs - page 65  | (8) ELI ZP-RTP                                     | 0                          | 0            | 0                     |  |
| of 80, Exhibit 9A,   | , ( 9) MUNICIPAL                                   | 122,088                    | 40,696       | 39,436                |  |
| col 10.  | (10) UNMETERED                                     | <u>69,089</u>              | 23,030       | 22,316                |  |
|  |  | 5,826,414                  | 1,942,138    | 1,881,990             |  |
|  | Standby Domand Charge Calculation                  |                            |              |                       |  |
|  | Standby Demand Charge Calculation                  | 1                          |              |                       |  |
|  |  | Cost l                     | Jsage        | Unit Cost per         | kW   |
|  | Annual Rate per kW demand at 69 kV Voltage         | \$121,275.45               | 1,881,990    | \$64.440              | )  |
|  | Monthly Rate per kW demand at 69 kV Voltage        |                            |              | \$5.370               | )  |

## Renewable to Retail NSUARB IR-8 Attachment 12 Page 1 of 8 GRA 2013 DE-03 - DE-04 Appendix L Attachment 3 Page 1 of 8

### FIGURE 3-1

#### NOVA SCOTIA POWER INC. ANCILLIARY SERVICE RATE CALCULATION 2013 SCHEDULING, SYSTEM CONTROL AND DISPATCH

|   |  |                                  | (1)  | (2)   | (3)                                   | (4)   |
|---|--|----------------------------------|--|---|---------------------------------------|---|
| Service   |  |                                  | Total Cost of<br>Service<br><u>(in \$000s)</u>                             | Total<br>Usage<br><u>(in MW)</u>  | Yearly Cost<br><u>\$/MW-year</u>      | Monthly Cost<br><u>\$/MW-month</u>                |
| Scheduling, System Control & Dispatch   |  | [                                | \$78   | 16  | \$4,838.94                            | \$403.24  |
| Sched., Sys. Cntrl. & Disp. for Point-to-Point  | _  |                                  |  | Rate for S<br><u>Services</u>   | ervices Billed M<br><u>\$/MW-year</u> | lonthly<br><u>\$/MW-month</u>                     |
| Yearly  |  |                                  |  | Monthly Cost  | 4,838.94                              | 403.24  |
| Monthly<br>Weekly<br>On-Peak Daily<br>Off-peak Daily<br>On-Peak Hourly<br>Off-Peak Hourly |  | Cost of                          | (\$/MW-m)<br>(\$/MW-w)<br>(\$/MW-d)<br>(\$/MW-d)<br>(\$/MW-h)<br>(\$/MW-h) | Yearly/12<br>Yearly/52<br>Weekly/5<br>Yearly/365<br>Daily/16<br>Yearly/8760 |                                       | 403.24<br>93.06<br>18.61<br>13.26<br>1.16<br>0.55 |
|   | Total Cost of<br>Service<br><u>(in \$000s)</u> | Total<br>Usage<br><u>(in MW)</u> | <u>(\$MW-year)</u>   | (\$MW-month)  | Coincidence<br><u>Factor</u>          | Rate<br>Monthly<br><u>(\$MW-month)</u>            |
| Sched., Sys. Cntrl. & Disp. for Network Service   | \$8,052  | 1,664                            | \$4,838.94   | \$403.24  | 85.0%                                 | \$342.76  |
| <b>NOTE:</b><br>This approach facilitates the use of non-coincident Recommendation 28.    | peaks for billing purpos                       | ses consistent wit               | h EMGC   |   |                                       |   |

### NOVA SCOTIA POWER INC. CAPACITY BASED ANCILLARY SERVICES NOVA SCOTIA USAGE

| (1)                                  | (2)   | (3)   | (4)   | (5)  |
|--------------------------------------|---|---|---|--|
|                                      | Network Serv  | ice Billing Det   | erminants   |  |
| Usage by<br>Point-to-<br>Point<br>MW | Total<br>MW   | Loads that<br>Self Supply<br>MW   | Loads that<br>Purchase<br>From Third<br>Party<br>MW   | Net Usage<br>in Tariff<br>MW   |
|                                      |   |   |   |  |
| 0                                    | 1,958   |   |   | 1,958  |
| 0                                    | 1,958   |   |   | 1,958  |
|                                      |   |   |   |  |
| 0                                    | 1,958   |   |   | 1,958  |
| 0                                    | 1,958   |   |   | 1,958  |
| 0                                    | 1,958   |   |   | 1,958  |
|                                      |   |   |   |  |
|                                      |   |   |   |  |
| NCP) are as per l                    | -igure 2-2.   |   |   |  |
|                                      | (1)<br>Usage by<br>Point-to-<br>Point<br>MW<br>0<br>0<br>0<br>0<br>0<br>0 | (1)         (2)           Network Serv           Usage by<br>Point-to-<br>Point         Total<br>MW           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958           0         1,958 | (1)       (2)       (3)         Network Service Billing Detrive         Usage by       Loads that         Point-to-       Loads that         Self Supply       MW         MW       MW         0       1,958         0       1,958         0       1,958         0       1,958         0       1,958         0       1,958         0       1,958         0       1,958 | (1)       (2)       (3)       (4)         Network Service Billing Determinants       Loads that       Loads that         Usage by       Point-to-       Loads that       Purchase         Point       Total       Self Supply       Party         MW       MW       MW       MW       MW         0       1,958 |

2. These services apply only to Network Service loads or to point-to-point services within Nova Scotia. They do not apply to point-to-point service used for exports, because for exports, those services would be the responsibility of the customer receiving the supply. That customer would purchase these ancillary services from the transmission provider in the operating area where the load is located.

#### NOVA SCOTIA POWER INC. CAPACITY BASED ANCILLARY SERVICES 2013 REVENUE REQUIREMENT AND RATE DESIGN

| Revenue<br>leguirement | Services   | Revenue   |   |   |  |   |   |   |
|------------------------|--|---|---|---|--|---|---|---|
| (\$/kW-yr)             | Required<br>(MW)   | Requirement<br>(\$000/yr)   | Usage<br>(MW)   | Rate for<br>Network<br>(\$/MW-yr)   | Rate for<br>Network<br>(\$/MW-mo)  | Rate for<br>Ptto-Pt.<br>(\$/MW-mo)  | Rate for<br>Ptto-Pt.<br>(\$/MW-wk)  | Rate for<br>Ptto-Pt.<br>(\$/MW-dy)  |
|                        |  |   |   |   |  |   |   |   |
| 87.49                  | 58   | \$5,092.18  | 1,958   | \$2,600.70  | \$216.73   | \$216.73  | \$50.01   | \$7.13  |
| 120.77                 | 151  | \$18,224.83   | 1,958   | \$9,307.88  | \$775.66   | \$775.66  | \$179.00  | \$25.50   |
|                        |  |   |   |   |  |   |   |   |
| 118.42                 | 33   | \$3,908.02  | 1,958   | \$1,995.92  | \$166.33   | \$166.33  | \$38.38   | \$5.47  |
| 56.41                  | 138  | \$7,784.77  | 1,958   | \$3,975.88  | \$331.32   | \$331.32  | \$76.46   | \$10.89   |
| 131.95                 | 50   | \$6,597.75  | 1,958   | \$3,369.64  | \$280.80   | \$280.80  | \$64.80   | \$9.23  |
|                        |  |   |   |   |  |   |   |   |
|                        |  |   |   |   |  |   |   |   |
|                        |  |   |   |   |  |   |   |   |
|                        |  |   |   |   |  |   |   |   |
|                        | equirement<br>(\$/kW-yr)<br>87.49<br>120.77<br>118.42<br>56.41<br>131.95 | equirement<br>(\$/kW-yr)         Required<br>(MW)           87.49         58           120.77         151           118.42         33           56.41         138           131.95         50 | equirement<br>(\$/kW-yr)         Required<br>(MW)         Requirement<br>(\$000/yr)           87.49         58         \$5,092.18           120.77         151         \$18,224.83           118.42         33         \$3,908.02           56.41         138         \$7,784.77           131.95         50         \$6,597.75 | equirement<br>(\$/kW-yr)         Required<br>(MW)         Requirement<br>(\$000/yr)         Usage<br>(MW)           87.49         58         \$5,092.18         1,958           120.77         151         \$18,224.83         1,958           118.42         33         \$3,908.02         1,958           56.41         138         \$7,784.77         1,958           131.95         50         \$6,597.75         1,958 | equirement<br>(\$/kW-yr)         Required<br>(MW)         Requirement<br>(\$000/yr)         Usage<br>(MW)         Network<br>(\$/MW-yr)           87.49         58         \$5,092.18         1,958         \$2,600.70           120.77         151         \$18,224.83         1,958         \$9,307.88           118.42         33         \$3,908.02         1,958         \$1,995.92           56.41         138         \$7,784.77         1,958         \$3,975.88           131.95         50         \$6,597.75         1,958         \$3,369.64 | equirement<br>(\$/kW-yr)         Required<br>(MW)         Requirement<br>(\$000/yr)         Usage<br>(MW)         Network<br>(\$/MW-yr)         Network<br>(\$/MW-mo)           87.49         58         \$5,092.18         1,958         \$2,600.70         \$216.73           120.77         151         \$18,224.83         1,958         \$9,307.88         \$775.66           118.42         33         \$3,908.02         1,958         \$1,995.92         \$166.33           56.41         138         \$7,784.77         1,958         \$3,369.64         \$280.80           131.95         50         \$6,597.75         1,958         \$3,369.64         \$280.80 | equirement<br>(\$/kW-yr)         Required<br>(MW)         Requirement<br>(\$000/yr)         Usage<br>(MW)         Network<br>(\$/MW-yr)         Network<br>(\$/MW-mo)         Ptto-Pt.<br>(\$/MW-mo)           87.49         58         \$5,092.18         1,958         \$2,600.70         \$216.73         \$216.73           120.77         151         \$18,224.83         1,958         \$9,307.88         \$775.66         \$775.66           118.42         33         \$3,908.02         1,958         \$1,995.92         \$166.33         \$166.33           56.41         138         \$7,784.77         1,958         \$3,975.88         \$331.32         \$331.32           131.95         50         \$6,597.75         1,958         \$3,369.64         \$280.80         \$280.80 | equirement<br>(\$/kW-yr)         Required<br>(MW)         Requirement<br>(\$000/yr)         Usage<br>(MW)         Network<br>(\$/MW-yr)         Network<br>(\$/MW-mo)         Ptto-Pt.<br>(\$/MW-mo)         Ptto-Pt.<br>(\$/MW-wk)           87.49         58         \$5,092.18         1,958         \$2,600.70         \$216.73         \$216.73         \$50.01           120.77         151         \$18,224.83         1,958         \$9,307.88         \$775.66         \$775.66         \$179.00           118.42         33         \$3,908.02         1,958         \$1,995.92         \$166.33         \$166.33         \$38.38           56.41         138         \$7,784.77         1,958         \$3,975.88         \$331.32         \$331.32         \$76.46           131.95         50         \$6,597.75         1,958         \$3,369.64         \$280.80         \$280.80         \$64.80 |

#### NOVA SCOTIA POWER INC. 2013 REACTIVE SUPPLY AND VOLTAGE CONTROL RATE DESIGN

|  | (1)               | (2)               | (3)               | (4)               | (5)               | (6)               | (7)               | (8)               | (9)               |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | Revenue           | Billing           |                   |                   |                   | On-Peak           | Off-Peak          | On-Peak           | Off-Peak          |
|  | Requirement       | Determinants      | Yearly            | Monthly           | Weekly            | Daily             | Daily             | Hourly            | Hourly            |
|  | <u>(\$000/yr)</u> | <u>(MW)</u>       | <u>(\$/MW-yr)</u> | <u>(\$/MW-mo)</u> | <u>(\$/MW-wk)</u> | <u>(\$/MW-dy)</u> | <u>(\$/MW-dy)</u> | <u>(\$/MW-hr)</u> | <u>(\$/MW-hr)</u> |
| Reactive Supply and Voltage Control      |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Total                                    | \$4,329.0         |                   |                   |                   |                   |                   |                   |                   |                   |
| Less: Credits                            | <u>0.0</u>        |                   |                   |                   |                   |                   |                   |                   |                   |
| Net                                      | 4,329.0           |                   |                   |                   |                   |                   |                   |                   |                   |
| Point-to-Point                           | \$41.5            | 16                | \$2,576.61        | \$214.72          | \$49.55           | \$9.91            | \$7.06            | \$0.62            | \$0.29            |
| Network Services                         | \$4,287.5         | 1,958             | \$2,189.72        | \$182.48          |                   |                   |                   |                   |                   |
|  |                   | 1,974             |                   |                   | T                 |                   |                   |                   |                   |
| NOTES:                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1 Point-to-Point and Network Services Re | active Supply an  | d Voltage Control | l Revenue Rec     | uirements are     | segregated as     | per Figure 2-2    | Col 3             |                   |                   |
|  | don'to ouppiy and | a voltage control |                   |                   | oogi ogaloa ao    | poi i iguio 2 2,  | , 001. 0.         |                   |                   |

## Renewable to Retail NSUARB IR-8 Attachment 12 Page 5 of 8 GRA 2013 DE-03 - DE-04 Appendix L Attachment 3 Page 5 of 8

### FIGURE 3-5

#### NOVA SCOTIA POWER INC. ANCILLIARY SERVICE RATE CALCULATION 2014 SCHEDULING, SYSTEM CONTROL AND DISPATCH

|   |  |                                  | (1)  | (2)   | (3)                                   | (4)   |
|---|--|----------------------------------|--|---|---------------------------------------|---|
| Service   |  |                                  | Total Cost of<br>Service<br><u>(in \$000s)</u>                             | Total<br>Usage<br><u>(in MW)</u>  | Yearly Cost<br><u>\$/MW-year</u>      | Monthly Cost<br><u>\$/MW-month</u>                |
| Scheduling, System Control & Dispatch   |  | [                                | \$80   | 16  | \$4,997.38                            | \$416.45  |
| Sched., Sys. Cntrl. & Disp. for Point-to-Point  | _  |                                  |  | Rate for S<br><u>Services</u>   | ervices Billed M<br><u>\$/MW-year</u> | lonthly<br><u>\$/MW-month</u>                     |
| Yearly  |  |                                  |  | Monthly Cost  | 4,997.38                              | 416.45  |
| Monthly<br>Weekly<br>On-Peak Daily<br>Off-peak Daily<br>On-Peak Hourly<br>Off-Peak Hourly |  | Cost of                          | (\$/MW-m)<br>(\$/MW-w)<br>(\$/MW-d)<br>(\$/MW-d)<br>(\$/MW-h)<br>(\$/MW-h) | Yearly/12<br>Yearly/52<br>Weekly/5<br>Yearly/365<br>Daily/16<br>Yearly/8760 |                                       | 416.45<br>96.10<br>19.22<br>13.69<br>1.20<br>0.57 |
|   | Total Cost of<br>Service<br><u>(in \$000s)</u> | Total<br>Usage<br><u>(in MW)</u> | <u>(\$MW-year)</u>   | <u>(\$MW-month)</u>   | Coincidence<br><u>Factor</u>          | Rate<br>Monthly<br><u>(\$MW-month)</u>            |
| Sched., Sys. Cntrl. & Disp. for Network Service   | \$8,306  | 1,662                            | \$4,997.38   | \$416.45  | 85.0%                                 | \$353.98  |
| <b>NOTE:</b><br>This approach facilitates the use of non-coincident<br>Recommendation 28. | peaks for billing purpos                       | ses consistent wit               | h EMGC   |   |                                       |   |

### NOVA SCOTIA POWER INC. 2014 CAPACITY BASED ANCILLARY SERVICES NOVA SCOTIA USAGE

| <u>-</u>  | Network Serv                         | ice Billing Dete   | erminants   |  |  |  |  |  |  |  |
|---|--------------------------------------|--|---|--|--|--|--|--|--|--|
| (1)(2)(3)(4)(5)Network Service Billing DeterminantsLoads that<br>PurchaseUsage by<br>Point-to-<br>Point<br>MWLoads that<br>Self Supply<br>MWFrom Third<br>Party<br>MWNet Usa<br>in Tari<br>MW01,9551,01,9551, |                                      |  |   |  |  |  |  |  |  |  |
| Usage by<br>Point-to-<br>Point<br>MW  | Total<br>MW                          | Loads that<br>Self Supply<br>MW  | Loads that<br>Purchase<br>From Third<br>Party<br>MW   | Net Usage<br>in Tariff<br>MW   |  |  |  |  |  |  |
|   |                                      |  |   |  |  |  |  |  |  |  |
| 0   | 1,955                                |  |   | 1,955  |  |  |  |  |  |  |
| 0   | 1,955                                |  |   | 1,955  |  |  |  |  |  |  |
|   |                                      |  |   |  |  |  |  |  |  |  |
| 0   | 1,955                                |  |   | 1,955  |  |  |  |  |  |  |
| 0   | 1,955                                |  |   | 1,955  |  |  |  |  |  |  |
| 0   | 1,955                                |  |   | 1,955  |  |  |  |  |  |  |
| NCP) are as per F   | igure 2-7.                           |  |   |  |  |  |  |  |  |  |
|   | Usage by<br>Point-to-<br>Point<br>MW | Usage by<br>Point-to-<br>Point         Total<br>MW           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955           0         1,955 | Usage by<br>Point-to-<br>Point Total Self Supply<br>MW MW MW<br>0 1,955<br>0 1,955<br>0 1,955<br>0 1,955<br>0 1,955<br>0 1,955<br>0 1,955<br>0 1,955<br>0 1,955 | Usage by<br>Point-to-<br>Point       Loads that<br>Total       Purchase<br>Self Supply<br>MW       From Third<br>Party<br>MW         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         0       1,955       0         NCP) are as per Figure 2-7.       The dependence of the point to poin |  |  |  |  |  |  |

2. These services apply only to Network Service loads or to point-to-point services within Nova Scotia. They do not apply to point-to-point service used for exports, because for exports, those services would be the responsibility of the customer receiving the supply. That customer would purchase these ancillary services from the transmission provider in the operating area where the load is located.

#### NOVA SCOTIA POWER INC. CAPACITY BASED ANCILLARY SERVICES 2014 REVENUE REQUIREMENT AND RATE DESIGN

|  | (1)                                  | (2)                          | (3)                                  | (4)           | (5)                               | (6)                               | (7)                                | (8)                                | (9)                                |
|--|--------------------------------------|------------------------------|--------------------------------------|---------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|
|  | Revenue<br>Requirement<br>(\$/kW-yr) | Services<br>Required<br>(MW) | Revenue<br>Requirement<br>(\$000/yr) | Usage<br>(MW) | Rate for<br>Network<br>(\$/MW-yr) | Rate for<br>Network<br>(\$/MW-mo) | Rate for<br>Ptto-Pt.<br>(\$/MW-mo) | Rate for<br>Ptto-Pt.<br>(\$/MW-wk) | Rate for<br>Ptto-Pt.<br>(\$/MW-dy) |
| Regulation and Frequency Response                      |                                      |                              |                                      |               |                                   |                                   |                                    |                                    |                                    |
| Regulation   | \$ 87.49                             | 58                           | \$5,092.18                           | 1,955         | \$2,604.69                        | \$217.06                          | \$217.06                           | \$50.09                            | \$7.14                             |
| Load Following   | \$ 120.77                            | 151                          | \$18,224.83                          | 1,955         | \$9,322.16                        | \$776.85                          | \$776.85                           | \$179.27                           | \$25.54                            |
| Operating Reserves (Contingency Reserves)              |                                      |                              |                                      |               |                                   |                                   |                                    |                                    |                                    |
| Spinning (10 Minute)                                   | \$ 118.42                            | 33                           | \$3,908.02                           | 1,955         | \$1,998.99                        | \$166.58                          | \$166.58                           | \$38.44                            | \$5.48                             |
| Supplemental (10 Minute)                               | \$ 56.41                             | 138                          | \$7,784.77                           | 1,955         | \$3,981.98                        | \$331.83                          | \$331.83                           | \$76.58                            | \$10.91                            |
| Supplemental (30 Minute)                               | \$ 131.95                            | 50                           | \$6,597.75                           | 1,955         | \$3,374.81                        | \$281.23                          | \$281.23                           | \$64.90                            | \$9.25                             |
|  |                                      |                              |                                      |               |                                   |                                   |                                    |                                    |                                    |
| NOTES:<br>1. Revenue Requirement is from Attachment 4. |                                      |                              |                                      |               |                                   |                                   |                                    |                                    |                                    |

#### NOVA SCOTIA POWER INC. 2014 REACTIVE SUPPLY AND VOLTAGE CONTROL RATE DESIGN

|   | (1)               | (2)               | (3)               | (4)               | (5)               | (6)               | (7)               | (8)               | (9)               |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|   | Revenue           | Billing           |                   |                   |                   | On-Peak           | Off-Peak          | On-Peak           | Off-Peak          |
|   | Requirement       | Determinants      | Yearly            | Monthly           | Weekly            | Daily             | Daily             | Hourly            | Hourly            |
|   | <u>(\$000/yr)</u> | <u>(MW)</u>       | <u>(\$/MW-yr)</u> | <u>(\$/MW-mo)</u> | <u>(\$/MW-wk)</u> | <u>(\$/MW-dy)</u> | <u>(\$/MW-dy)</u> | <u>(\$/MW-hr)</u> | <u>(\$/MW-hr)</u> |
| Reactive Supply and Voltage Control       |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Total                                     | \$4,329.0         |                   |                   |                   |                   |                   |                   |                   |                   |
| Less: Credits                             | <u>0.0</u>        |                   |                   |                   |                   |                   |                   |                   | I                 |
| Net                                       | 4,329.0           |                   |                   |                   |                   |                   |                   |                   |                   |
| Point-to-Point                            | \$41.5            | 16                | \$2,579.68        | \$214.97          | \$49.61           | \$9.92            | \$7.07            | \$0.62            | \$0.29            |
| Network Services                          | \$4,287.4         | 1,955             | \$2,193.06        | \$182.76          |                   |                   |                   |                   |                   |
|   |                   | 1,971             |                   |                   |                   |                   |                   |                   |                   |
| NOTES:                                    |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1 Point to Point and Network Services Pe  | active Supply an  | d Voltage Contro  |                   | quiremente are    | segregated as     | per Figure 2.7    |                   |                   |                   |
| T. FOILT-IO-FOILT and Network Services Re | active Supply and | u voltage control |                   | fuirements are    | segregated as     | per rigure 2-7    | , COI. 5.         |                   |                   |

## NON-CONFIDENTIAL

| 1  | Request DR-28:   |
|----|--|
| 2  |  |
| 3  | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation                 |
| 4  | Forecasting Service (GFS) Proposals  |
| 5  |  |
| 6  | With respect to the two components of the SS identified on page 1, please identify each of     |
| 7  | these in the formula proposed for the calculation of the Monthly Standby Contract              |
| 8  | Demand.  |
| 9  |  |
| 10 | Response DR-28:  |
| 11 |  |
| 12 | The description of the two components of SS on page 1 is intended to provide information about |
| 13 | the reasons for the service, but not a description of two separate rate formula elements. The  |
| 14 | proposed formula does not differentiate between the capacity adequacy service during RtR       |

15 generator outages and the delivery of top-up service.

| 1  | Request DR-29:   |  |  |  |  |  |  |  |  |
|----|--|--|--|--|--|--|--|--|--|
| 2  |  |  |  |  |  |  |  |  |  |
| 3  | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation               |  |  |  |  |  |  |  |  |
| 4  | Forecasting Service (GFS) Proposals  |  |  |  |  |  |  |  |  |
| 5  |  |  |  |  |  |  |  |  |  |
| 6  | Please provide the derivation of all charges in the SS tariff.                               |  |  |  |  |  |  |  |  |
| 7  |  |  |  |  |  |  |  |  |  |
| 8  | Response DR-29:  |  |  |  |  |  |  |  |  |
| 9  |  |  |  |  |  |  |  |  |  |
| 10 | Please refer to Attachment 1, also provided electronically, for the derivation of the demand |  |  |  |  |  |  |  |  |
| 11 | charge. For the derivation of the administration charge please refer to Multeese DR-25       |  |  |  |  |  |  |  |  |
| 12 | Attachment 1.  |  |  |  |  |  |  |  |  |

Comments/

Assumptions

|  | Demand-related Costs                                | Cost in thousa | nds of \$'s   |                       |  |
|--|---|----------------|---------------|-----------------------|--|
| Appendix C<br>2014 COS<br>Costs - Exhibit 5,<br>page 1, column<br>2. | Demand-related fixed gen costs net of fuel costs    |                | \$167,212     |                       | Calculated as follows: total of<br>\$176,854 k less purchased<br>power regular of \$390 k,<br>purchased biomass power<br>\$2,205 k, purchased wind<br>power of \$7,048 k |
| GRA 2013 DE-   | Less: Ancillary generation-related costs recovered  | under OATT     |               |                       |  |
| 03 - DE-04   | Reactive Supply & Voltage Control                   | \$4.329        |               |                       |  |
| Appendix L   | Regulation & Frequency                              | \$5.092        |               |                       |  |
| Attachment 3   | Load Following                                      | \$18.225       |               |                       |  |
| pages 7 and 8,   | Operating Reserve - Spinning (10 min)               | \$3,908        |               |                       |  |
| Figures 3-7 and  | Operating Reserve - Supplemental (10 min)           | \$7,785        |               |                       |  |
| 3-8  | Operating Reserve - Supplemental (30 min)           | \$6,598        |               |                       |  |
|  |   | \$45,937       |               |                       |  |
|  | Demand-related fixed Gen. Costs net of Ancillary Se | ervice Costs3  | \$121,275     |                       |  |
|  | •   |                |               |                       |  |
|  | Capacity Usage in kW                                |                |               |                       |  |
|  | Transmission Loss at 69 kV                          |                |               | 3.2%                  |  |
|  |   | Sum of 3       |               |                       |  |
|  |   | Coincident     |               |                       |  |
|  |   | Winter Peaks   | 3CP Mor       | nthly Ave<br>At 69 kV |  |
|  |   | At Generato    | r's Gate      | Transmission          |  |
|  | (1) DOMESTIC  | 3,327,702      | 1,109,234     | 1,074,881             |  |
|  | (2) SMALL GENERAL                                   | 123,720        | 41,240        | 39,963                |  |
|  | ( 3) GENERAL  | 1,361,828      | 453,943       | 439,884               |  |
|  | ( 4) GENERAL LARGE                                  | 161,337        | 53,779        | 52,114                |  |
|  | ( 5) SMALL INDUSTRIAL                               | 116,650        | 38,883        | 37,679                |  |
| Appendix C   | ( 6) MEDIUM INDUSTRIAL                              | 225,735        | 75,245        | 72,915                |  |
| 2014 COS   | ( 7) LARGE INDUSTRIAL                               | 318,264        | 106,088       | 102,802               |  |
| Costs - page 65  | (8) ELI 2P-RTP                                      | 0              | 0             | 0                     |  |
| of 80, Exhibit 9A  | ( 9) MUNICIPAL                                      | 122,088        | 40,696        | 39,436                |  |
| col 10.  | (10) UNMETERED                                      | <u>69,089</u>  | <u>23,030</u> | <u>22,316</u>         |  |
|  |   | 5,826,414      | 1,942,138     | 1,881,990             |  |

Category

Source

| Sta | andby Demand Charge Calculation           |              |             |                  |
|-----|---|--------------|-------------|------------------|
|     |   | Cost         | Usage       | Unit Cost per kW |
| Ann | ual Rate per kW demand at 69 kV Voltage   | \$121,275.45 | 5 1,881,990 | \$64.440         |
| Mon | hthly Rate per kW demand at 69 kV Voltage |              |             | \$5.370          |

| 1  | Request DR-30:  |
|----|---|
| 2  |   |
| 3  | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation                        |
| 4  | Forecasting Service (GFS) Proposals   |
| 5  |   |
| 6  | Please provide the rationale for the formula proposed to calculate the Monthly Standby                |
| 7  | Contract Demand.  |
| 8  |   |
| 9  | Response DR-30:   |
| 10 |   |
| 11 | NS Power is a winter peaking utility; its investment in its generation capacity is determined on      |
| 12 | the basis of winter system peak. Accordingly, rate class responsibilities for the demand-related      |
| 13 | generation costs are determined in the Cost of Service Studies through their weighted average         |
| 14 | contribution to the three winter peaks of January, February and December. For rate classes            |
| 15 | billed under demand charges these costs are primarily recovered through monthly demand                |
| 16 | charges applicable to non-coincident monthly metered demands. For rate classes whose usage is         |
| 17 | billed only under energy charges these costs are recovered through monthly energy charges.            |
| 18 |   |
| 19 | In both cases it is necessary for the Company to be able to reliably predict a test year class usage. |
| 20 | This pricing model cannot be applied in the context of the RtR market because this information        |
| 21 | cannot be reliably determined.  |
| 22 |   |
| 23 | It is expected that customers will switch between bundled and RtR services, and among LRSs, at        |
| 24 | any time of year. In addition, in the early stages of the RtR market opening, the Company             |
| 25 | expects a continued increase in customer participation in the RtR market but is not able to predict   |
| 26 | it with a level of accuracy required for rate setting purposes.                                       |
| 27 |   |
| 28 | The historical peak demands of an LRS in December, January and February will likely be                |
| 29 | unrepresentative of the customer portfolio partway through the calendar year. The LRS historic        |

| 1  | winte  | r deman   | d may not even be available for a better part of the first year of its operation if the |  |  |  |  |  |  |  |
|----|--|-----------|---|--|--|--|--|--|--|--|
| 2  | LRS commences service in non-winter months.  |           |   |  |  |  |  |  |  |  |
| 3  |  |           |   |  |  |  |  |  |  |  |
| 4  | In or  | ler to re | flect load changes to the LRS portfolio over the year, the Company proposes to          |  |  |  |  |  |  |  |
| 5  | recalculate an equivalent annual coincident demand on the basis of each month's actual peak  |           |   |  |  |  |  |  |  |  |
| 6  | coincident demand for the LRS portfolio. The calculation of this equivalent annual peak will |           |   |  |  |  |  |  |  |  |
| 7  | reflect the differing load profiles of each customer class.                                  |           |   |  |  |  |  |  |  |  |
| 8  |  |           |   |  |  |  |  |  |  |  |
| 9  | Just a   | s the LF  | RS's load may vary over the year, so may its generation resources, particularly as      |  |  |  |  |  |  |  |
| 10 | gener  | ation co  | omes on line following the RtR market opening. It is therefore necessary to             |  |  |  |  |  |  |  |
| 11 | recog  | nise firn | n dependable generation capacity on the basis of resources becoming available each      |  |  |  |  |  |  |  |
| 12 | month  | 1.        |   |  |  |  |  |  |  |  |
| 13 |  |           |   |  |  |  |  |  |  |  |
| 14 | The C  | Company   | proposes that the billing demand of an LRS be calculated as follows:                    |  |  |  |  |  |  |  |
| 15 |  |           |   |  |  |  |  |  |  |  |
| 16 | 1.   | To det    | ermine the firm dependable capacity requirement associated with that LRS's load:        |  |  |  |  |  |  |  |
| 17 |  |           |   |  |  |  |  |  |  |  |
| 18 |  | (i)       | determine in each month the system peak firm demand hour;                               |  |  |  |  |  |  |  |
| 19 |  |           |   |  |  |  |  |  |  |  |
| 20 |  | (ii)      | determine for that hour the total LRS load (excluding interruptible load) in each       |  |  |  |  |  |  |  |
| 21 |  |           | customer class, including distribution system losses;                                   |  |  |  |  |  |  |  |
| 22 |  |           |   |  |  |  |  |  |  |  |
| 23 |  | (iii)     | apply the applicable adjustment factor to derive the equivalent contribution to the     |  |  |  |  |  |  |  |
| 24 |  |           | weighted average of three system firm peaks of January, February and December           |  |  |  |  |  |  |  |
| 25 |  |           | for each class;   |  |  |  |  |  |  |  |
| 26 |  |           |   |  |  |  |  |  |  |  |
| 27 |  | (iv)      | aggregate the class equivalent annual contributions to determine the LRS total          |  |  |  |  |  |  |  |
| 28 |  |           | equivalent coincident peak firm demand;   |  |  |  |  |  |  |  |
| 29 |  |           |   |  |  |  |  |  |  |  |

| 1                    | 2. | Determine the dependable capacity contribution provided by the LRS's owned and   |
|----------------------|----|--|
| 2                    |    | contracted generation as the sum of contributions of firm dependable capacity of those   |
| 3                    |    | generation facilities. Recognising the requirement for 20% reserve over coincident peak  |
| 4                    |    | firm load, divide the firm dependable capacity by $(1 + 20\%)$ to arrive at the quantity of  |
| 5                    |    | the LRS's equivalent coincident peak firm demand that is supported by the LRS's own  |
| 6                    |    | firm dependable capacity.  |
| 7                    |    |  |
| 8                    | 3. | Determine the billing demand of the LRS as the excess of the LRS's equivalent  |
| 9                    |    |  |
| -                    |    | coincident peak firm demand associated with the LRS's load under #1 above over the   |
| 10                   |    | coincident peak firm demand associated with the LRS's load under #1 above over the quantity supported by the firm dependable capacity provided by the LRS's owned and  |
| 10<br>11             |    | coincident peak firm demand associated with the LRS's load under #1 above over the quantity supported by the firm dependable capacity provided by the LRS's owned and contracted generation under #2 above.  |
| 10<br>11<br>12       |    | coincident peak firm demand associated with the LRS's load under #1 above over the quantity supported by the firm dependable capacity provided by the LRS's owned and contracted generation under #2 above.  |
| 10<br>11<br>12<br>13 | 4. | coincident peak firm demand associated with the LRS's load under #1 above over the<br>quantity supported by the firm dependable capacity provided by the LRS's owned and<br>contracted generation under #2 above.<br>If the quantity supported by the firm dependable capacity provided by the LRS exceeds |

| 1  | Request DR-31:   |
|----|--|
| 2  |  |
| 3  | Reference: Energy Balancing Service (EBS), Standby Service (SS) and Generation |
| 4  | Forecasting Service (GFS) Proposals  |
| 5  |  |
| 6  | Please provide the derivation of the Class Monthly Demand Adjustment Factors.  |
| 7  |  |
| 8  | Response DR-31:  |
| 9  |  |
| 10 | Please refer to Attachment 1, also provided electronically.                    |

## Renewable to Retail NSUARB IR-8 Attachment 13 Page 8 of 16 ELECTRONIC Renewable to Retail Multeese DR-31 Attachment 1 Page 1 of 2

EXHIBIT 9C

#### NOVA SCOTIA POWER INC. DETAIL OF MONTHLY CLASS SYSTEM COINCIDENT KW DEMAND FOR THE YEAR ENDING DECEMBER 31, 2014

| MONTH                  | (1)<br>TOTAL<br>COMPANY | (2)<br>DOMESTIC  | (3)<br>SMALL<br>GENERAL | (4)<br>GENERAL   | (5)<br>GENERAL<br>LARGE | (6)<br>SMALL<br>INDUST. | (7)<br>MEDIUM<br>INDUST. | (8)<br>LARGE<br>INDUST. | (10)<br>MUNICIPAL | (11)<br>UNMETERED | (12)<br>MERSEY<br>SYSTEM | (13)<br>GRLF | (14)<br>REAL TIME<br>PRICING | (15)<br>LRT |          |
|------------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|-------------------------|--------------------------|-------------------------|-------------------|-------------------|--------------------------|--------------|------------------------------|-------------|----------|
| (1) JANUARY            | 1,964,311               | 1,104,057        | 43,147                  | 486,923          | 53,307                  | 41,413                  | 75,544                   | 99,525                  | 40,866            | 19,648            | 0                        | -119         | 0                            |             | 0        |
| ( 2) FEBRUARY          | 1,981,599               | 1,173,908        | 40,667                  | 431,736          | 52,870                  | 39,011                  | 73,290                   | 103,535                 | 42,022            | 24,524            | 0                        | 38           | 0                            |             | 0        |
| (3) MARCH              | 1,703,830               | 916,421          | 43,848                  | 451,054          | 54,668                  | 39,330                  | 66,321                   | 94,790                  | 34,721            | 2,689             | 0                        | -12          | 0                            |             | 0        |
| (4) APRIL              | 1,487,479               | 828,353          | 24,511                  | 358,217          | 47,826                  | 33,707                  | 65,546                   | 97,816                  | 28,440            | 2,904             | 0                        | 159          | 0                            |             | 0        |
| ( 5) MAY               | 1,355,817               | 651,803          | 35,218                  | 367,903          | 56,740                  | 43,146                  | 71,137                   | 101,700                 | 24,276            | 3,168             | 0                        | 726          | 0                            |             | 0        |
| ( 6) JUNE              | 1,309,156               | 679,292          | 27,446                  | 320,523          | 47,104                  | 33,847                  | 68,575                   | 104,904                 | 24,831            | 2,664             | 0                        | -29          | 0                            |             | 0        |
| ( 7) JULY              | 1,271,920               | 472,812          | 39,874                  | 423,318          | 66,270                  | 43,029                  | 77,215                   | 117,200                 | 26,605            | 3,141             | 0                        | 2,457        | 0                            |             | 0        |
| (8) AUGUST             | 1,353,115               | 526,585          | 37,826                  | 436,203          | 69,731                  | 41,855                  | 73,583                   | 119,528                 | 26,796            | 3,002             | 0                        | 18,006       | 0                            |             | 0        |
| (9) SEPTEMBER          | 1,365,156               | 532,092          | 35,370                  | 442,411          | 69,677                  | 39,462                  | 73,306                   | 119,016                 | 27,554            | 2,855             | 0                        | 23,413       | 0                            |             | 0        |
| (10) OCTOBER           | 1,382,088               | 657,260          | 31,104                  | 381,063          | 56,167                  | 42,855                  | 74,543                   | 107,711                 | 27,449            | 2,430             | 0                        | 1,506        | 0                            |             | 0        |
| (11) NOVEMBER          | 1,588,273               | 855,786          | 33,410                  | 379,930          | 52,855                  | 35,226                  | 72,943                   | 87,753                  | 32,527            | 17,812            | 0                        | 20,031       | 0                            |             | 0        |
| (12) DECEMBER          | <u>1,880,818</u>        | <u>1,049,737</u> | <u>39,906</u>           | 443,170          | 55,161                  | 36,226                  | <u>76,901</u>            | <u>115,203</u>          | <u>39,201</u>     | <u>24,917</u>     | <u>0</u>                 | <u>396</u>   | <u>0</u>                     |             | <u>0</u> |
| (13) TOT. SUMMED DMD.  | 18,643,563              | 9,448,108        | 432,327                 | 4,922,450        | 682,375                 | 469,107                 | 868,902                  | 1,268,681               | 375,288           | 109,755           | 0                        | 66,571       | 0                            |             | 0        |
| (14) 3 C/P DEMANDS     | <u>5,826,729</u>        | <u>3,327,702</u> | <u>123,720</u>          | <u>1,361,828</u> | <u>161,337</u>          | <u>116,650</u>          | <u>225,735</u>           | <u>318,264</u>          | <u>122,088</u>    | <u>69,089</u>     | <u>0</u>                 | <u>315</u>   | <u>0</u>                     |             | <u>0</u> |
| (14) 3 C/P AVE DEMANDS | 1,942,243               | 1,109,234        | 41,240                  | 453,943          | 53,779                  | 38,883                  | 75,245                   | 106,088                 | 40,696            | 23,030            | -                        | 105          | -                            |             |          |

#### RATIOS OF AVERAGE OF 3 WINTER MONTH COINCIDENT PEAKS TO MONTHLY COINCIDENT PEAKS

| (1) JANUARY   | 0.99 | 1.00 | 0.96 | 0.93 | 1.01 | 0.94 | 1.00 | 1.07 | 1.00 | 1.17 | - | 0.88 |
|---------------|------|------|------|------|------|------|------|------|------|------|---|------|
| ( 2) FEBRUARY | 0.98 | 0.94 | 1.01 | 1.05 | 1.02 | 1.00 | 1.03 | 1.02 | 0.97 | 0.94 |   | 2.79 |
| (3) MARCH     | 1.14 | 1.21 | 0.94 | 1.01 | 0.98 | 0.99 | 1.13 | 1.12 | 1.17 | 8.56 | - | 8.62 |
| (4) APRIL     | 1.31 | 1.34 | 1.68 | 1.27 | 1.12 | 1.15 | 1.15 | 1.08 | 1.43 | 7.93 |   | 0.66 |
| ( 5) MAY      | 1.43 | 1.70 | 1.17 | 1.23 | 0.95 | 0.90 | 1.06 | 1.04 | 1.68 | 7.27 |   | 0.14 |
| ( 6) JUNE     | 1.48 | 1.63 | 1.50 | 1.42 | 1.14 | 1.15 | 1.10 | 1.01 | 1.64 | 8.64 | - | 3.57 |
| ( 7) JULY     | 1.53 | 2.35 | 1.03 | 1.07 | 0.81 | 0.90 | 0.97 | 0.91 | 1.53 | 7.33 |   | 0.04 |
| (8) AUGUST    | 1.44 | 2.11 | 1.09 | 1.04 | 0.77 | 0.93 | 1.02 | 0.89 | 1.52 | 7.67 |   | 0.01 |
| (9) SEPTEMBER | 1.42 | 2.08 | 1.17 | 1.03 | 0.77 | 0.99 | 1.03 | 0.89 | 1.48 | 8.07 |   | 0.00 |
| (10) OCTOBER  | 1.41 | 1.69 | 1.33 | 1.19 | 0.96 | 0.91 | 1.01 | 0.98 | 1.48 | 9.48 |   | 0.07 |
| (11) NOVEMBER | 1.22 | 1.30 | 1.23 | 1.19 | 1.02 | 1.10 | 1.03 | 1.21 | 1.25 | 1.29 |   | 0.01 |
| (12) DECEMBER | 1.03 | 1.06 | 1.03 | 1.02 | 0.97 | 1.07 | 0.98 | 0.92 | 1.04 | 0.92 |   | 0.26 |

## Renewable to Retail NSUARB IR-8 Attachment 13 Page 9 of 16 ELECTRONIC Renewable to Retail Multeese DR-31 Attachment 1 Page 2 of 2

#### RATIOS OF AVERAGE OF 3 WINTER MONTH COINCIDENT PEAKS TO AVERAGE SEASONAL COINCIDENT PEAKS

| Jan, Feb, Dec | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| Mar, Apr      | 1.22 | 1.27 | 1.21 | 1.12 | 1.05 | 1.06 | 1.14 | 1.10 | 1.29 | 8.24 |
| May, June     | 1.46 | 1.67 | 1.32 | 1.32 | 1.04 | 1.01 | 1.08 | 1.03 | 1.66 | 7.90 |
| Jul, Aug, Sep | 1.46 | 2.17 | 1.09 | 1.05 | 0.78 | 0.94 | 1.01 | 0.89 | 1.51 | 7.68 |
| Oct, Nov      | 1.31 | 1.47 | 1.28 | 1.19 | 0.99 | 1.00 | 1.02 | 1.09 | 1.36 | 2.28 |

| Classes               | Jan, Feb, Dec | Mar, Apr | May, June | Jul, Aug, Sep | Oct, Nov |
|-----------------------|---------------|----------|-----------|---------------|----------|
| Domestic              | 1.00          | 1.27     | 1.67      | 2.17          | 1.47     |
| Small General         | 1.00          | 1.21     | 1.32      | 1.09          | 1.28     |
| General               | 1.00          | 1.12     | 1.32      | 1.05          | 1.19     |
| Large General         | 1.00          | 1.05     | 1.04      | 0.78          | 0.99     |
| Small Industrial      | 1.00          | 1.06     | 1.01      | 0.94          | 1.00     |
| Medium Industrial     | 1.00          | 1.14     | 1.08      | 1.01          | 1.02     |
| Large Industrial Firm | 1.00          | 1.10     | 1.03      | 0.89          | 1.09     |
| Unmetered             | 1.00          | 8.24     | 7.90      | 7.68          | 2.28     |

| Bundled Service Market                            |   |  | RENEWABLE TO RETAIL MARKET   |   |  |  |  |  |   |  |  |  |  |   |  |   |  |   |  |  |  |   |   |  |   |  |   |   |   |   |   |  |   |   |  |   |   |
|---|---|--|--|---|--|--|--|--|---|--|--|--|--|---|--|---|--|---|--|--|--|---|---|--|---|--|---|---|---|---|---|--|---|---|--|---|---|
|   |   |  |  |   | Distrib  | ution  |  |  | OATT  | Г  |  |  |  |   |  | ENERGY B  | ALANCIN  | IG SERVICI  |  |  |  |   |   | STAN   | IDBY SER  | VICE   |   |   | EN  | IBEDDED   | COST REC  | OVERY u  | nder RTT  |   | Total Rev  | /enue   |   |
| Usage   | •   | Rever  | iue  | Usag  | le   | Revenu   | ue   | Usage  |   | Reve   | nue  | I  | Load (MWh)   |   | Spill  | (MWh)   |  |   | Revenue  | und for  |  | Coincid   | ent Firm Dema   | and kW   |   | Reven  | ue  | C   | Energy-r<br>Displaced   | related<br>Forgone<br>Energy-   | Demand-F<br>Displaced   | Related<br>Forgone<br>Demand-  |   | \$  | Amount C   | ;ents/kWh   |   |
| Sustomers MWh                                     | 4   | Amount   | Cents/kWh  | Customers M   | Wh /   | Amount Ce  | ents/kWh LRS   | MWs N  | 1Wh   | Amount 0   | Cents/kWh  | RtR Direct<br>Delivery 1   | Гор-ир   | Total   | Total N  | Net of Top-up Admi  | in T   | op-up   | Exc<br>Spill Credit Spi  | ess<br>I Total   | Cents/kWh  | Metered   | Contributed<br>Capacity N   | Net  | Admin D   | emand To   | otal Ce   | ents/kWh  | Energy<br>(MWh)   | related<br>Revenue  | Demand<br>(MW)  | related<br>Revenue   | Total (<br>Revenue  | Jents/k<br>Wh   |  |   |   |
| 429<br>678<br>969<br>1199<br>1411<br>1629<br>1926 | 7,265<br>7,027<br>8,062<br>8,058<br>8,597<br>8,472<br>9,576   | \$802,132<br>\$805,268<br>\$908,900<br>\$922,884<br>\$969,658<br>\$978,803<br>\$1 094 816  | 11.04<br>11.46<br>11.27<br>11.45<br>11.28<br>11.55<br>11.43  | 429<br>678<br>969<br>1,199<br>1,411<br>1,629<br>1 926   | 7,265<br>7,027<br>8,062<br>8,058<br>8,597<br>8,472<br>9,576  | \$67,183<br>\$76,290<br>\$88,295<br>\$93,799<br>\$97,955<br>\$103,921<br>\$116,035   | 0.9 1<br>1.1 1<br>1.2 1<br>1.1 1<br>1.2 1<br>1.1 1<br>1.2 1<br>1.2 1   | 13.2<br>14.2<br>14.7<br>15.5<br>15.6<br>16.8<br>18.0   | 7,459<br>7,238<br>8,341<br>8,294<br>8,890<br>8,661<br>9,799   | \$94,143<br>\$95,786<br>\$100,539<br>\$107,985<br>\$106,079<br>\$112,329<br>\$118,974  | 1.26<br>1.32<br>1.21<br>1.30<br>1.19<br>1.30<br>1.21   | 5,627<br>4,931<br>5,295<br>4,939<br>4,048<br>3,768<br>5,874  | 1,832<br>2,307<br>3,046<br>3,355<br>4,842<br>4,893<br>3,925  | 7,459<br>7,238<br>8,341<br>8,294<br>8,890<br>8,661<br>9,799   | 7,176<br>4,125<br>4,201<br>4,671<br>2,910<br>522<br>4,803  | 5,344<br>1,817<br>1,154<br>1,316<br>(1,932)<br>(4,371)<br>879   | \$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053  | \$182,414<br>\$229,794<br>\$303,378<br>\$334,169<br>\$482,208<br>\$487,284<br>\$300,848   | -\$378,156<br>-\$217,372<br>-\$221,375<br>-\$246,186<br>-\$153,372<br>-\$27,519<br>-\$27,519   | -\$194,6<br>\$13,4<br>\$83,0<br>\$89,0<br>\$329,8<br>\$460,8<br>\$460,8  | 89         (2.61)           76         0.19           56         1.00           36         1.07           89         3.71           18         5.32           59         1.42  | 11,543<br>12,534<br>14,608<br>14,778<br>16,373<br>16,358<br>17,280  | 6,385<br>6,385<br>6,385<br>6,385<br>6,385<br>6,385<br>6,385<br>14,695   | 5,159<br>6,150<br>8,224<br>8,393<br>9,988<br>9,973<br>2,585  | \$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053   | \$27,703<br>\$33,023<br>\$44,161<br>\$45,073<br>\$53,638<br>\$53,555<br>\$13,882   | \$28,756<br>\$34,076<br>\$45,214<br>\$46,126<br>\$54,691<br>\$54,608<br>\$14,935  | 0.39<br>0.47<br>0.54<br>0.56<br>0.62<br>0.63<br>0.15  | 5,627<br>4,931<br>5,295<br>4,939<br>4,048<br>3,768<br>5,874   | \$186,197<br>\$163,167<br>\$175,200<br>\$163,432<br>\$133,952<br>\$124,673<br>\$194,371   | 6.4<br>6.4<br>6.4<br>6.4<br>6.4<br>6.4<br>6.4<br>14 7   | \$34,286<br>\$34,286<br>\$34,286<br>\$34,286<br>\$34,286<br>\$34,286<br>\$34,286<br>\$78,913   | \$220,483<br>\$197,453<br>\$209,486<br>\$197,717<br>\$168,238<br>\$158,959<br>\$273,284   | 3.0<br>2.7<br>2.5<br>2.4<br>1.9<br>1.8<br>2.8   | \$215,875<br>\$417,080<br>\$526,590<br>\$534,663<br>\$756,852<br>\$890,635<br>\$661,987  | 2.9<br>5.8<br>6.3<br>6.4<br>8.5<br>10.3<br>6.8  |   |
| 2144<br>2442<br>2772<br>3006<br><u>3357</u>       | 9,576<br>10,091<br>15,167<br>15,558<br>15,871<br><u>15,763</u><br>129,506   | \$1,094,016<br>\$1,156,840<br>\$1,719,610<br>\$1,738,920<br>\$1,797,183<br><u>\$1,884,693</u><br>\$14,779,707  | 11.43<br>11.46<br>11.34<br>11.18<br>11.32<br><u>11.96</u><br>11.41   | 2,144<br>2,442<br>2,772<br>3,006<br>3,357   | 9,376<br>10,091<br>9,806<br>10,331<br>10,727<br><u>11,348</u><br>109,360   | \$116,035<br>\$124,782<br>\$135,516<br>\$145,535<br>\$158,882<br><u>\$193,964</u><br>\$1,402,157   | 1.2 1<br>1.2 1<br>1.4 1<br>1.4 1<br>1.5 1<br><u>1.7</u> 1<br>1.3   | 18.0<br>19.2<br>20.0<br>20.1<br>21.1<br><u>24.7</u><br>213.2   | 9,799<br>10,412<br>15,363<br>15,869<br>16,190<br>16,342<br>132,857.6  | \$118,974<br>\$127,114<br>\$133,002<br>\$134,953<br>\$140,351<br><u>\$166,409</u><br>\$1,437,663   | 1.21<br>1.22<br>0.87<br>0.85<br>0.87<br>1.02<br>1.08   | 5,874<br>6,329<br>7,531<br>9,601<br>10,841<br><u>10,931</u><br>79,714  | 3,925<br>4,083<br>7,832<br>6,268<br>5,349<br>5,411<br>53,143   | 9,799<br>10,412<br>15,363<br>15,869<br>16,190<br><u>16,342</u><br>132,858   | 4,603<br>5,408<br>2,218<br>3,992<br>8,163<br><u>4,958</u><br>53,148  | 679<br>1,325<br>(5,614)<br>(2,276)<br>2,814<br>(453)<br>4   | \$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br><u>\$1,053</u><br>\$12,636   | \$390,848<br>\$406,629<br>\$779,964<br>\$624,245<br>\$532,745<br><u>\$538,841</u><br>\$5,292,520  | -\$233,143<br>-\$285,022<br>-\$116,878<br>-\$210,382<br>-\$430,211<br><u>-\$261,262</u><br>-\$2,800,878  | \$136,7<br>\$122,6<br>\$664,1<br>\$414,9<br>\$103,5<br><u>\$278,6</u><br>\$0 \$2,504,2   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 17,280<br>18,648<br>27,330<br>28,956<br>28,251<br><u>30,565</u><br>237,225  | 14,695<br>14,695<br>13,158<br>14,695<br>14,695<br>14,695<br>124,943   | 2,565<br>3,952<br>14,172<br>14,261<br>13,556<br>15,869<br>112,283  | \$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$1,053<br>\$12,636  | \$13,882<br>\$21,224<br>\$76,103<br>\$76,582<br>\$72,796<br><u>\$85,219</u><br>\$602,958   | \$14,933<br>\$22,277<br>\$77,156<br>\$77,635<br>\$73,849<br><u>\$86,272</u><br>\$615,594  | 0.15<br>0.21<br>0.50<br>0.49<br>0.46<br><u>0.53</u><br>0.46   | 5,674<br>6,329<br>7,531<br>9,601<br>10,841<br>10,931<br>79,714  | \$194,371<br>\$209,427<br>\$249,201<br>\$317,697<br>\$358,729<br><u>\$361,707</u><br>\$2,637,752  | 14.7<br>14.7<br>13.2<br>14.7<br>14.7<br><u>14.7</u><br>124.9  | \$78,913<br>\$78,913<br>\$70,660<br>\$78,913<br>\$78,913<br><u>\$78,913</u><br>\$670,942   | \$273,284<br>\$288,340<br>\$319,861<br>\$396,610<br>\$437,642<br><u>\$440,620</u><br>\$3,308,694  | 2.8<br>2.1<br>2.5<br>2.7<br><u>2.7</u><br>2.5   | \$661,367<br>\$685,172<br>\$1,329,674<br>\$1,169,650<br>\$914,311<br><u>\$1,165,897</u><br>\$9,268,387   | 6.6<br>8.7<br>7.4<br>5.6<br>7.1<br>7.0  |   |
|   | Bund<br>Usage<br>Customers MWh<br>429<br>678<br>969<br>1411<br>1629<br>1926<br>2144<br>2442<br>2772<br>3006<br>3357 | Bundled Ser           Usage           200           201           202           7,265           678           7,265           678           7,265           678           969           8,062           1199           8,058           1411           8,597           1629           9,576           2144           10,991           2472           15,658           3006           15,871           3357           15,763           129,506 | Bundled Service Mark           Usage         Rever           Customers MWh         Amount           429         7,265         \$802,132           678         7,027         \$805,268           969         8,062         \$908,900           1199         8,058         \$922,884           1411         8,597         \$969,658           1629         8,472         \$978,803           1926         9,576         51,094,816           2144         10,091         \$1,156,840           2472         15,558         1,738,920           3006         15,871         \$1,787,183           3357         15,7563         1,884,693           129,506         \$14,779,707 | Bundled Service Market           Usage         Revenue           Customers MWh         Amount         Cents/kWh           429         7,265         \$802,132         11.04           678         7,027         \$805,268         11.46           969         8,062         \$908,900         11.27           1199         8,058         \$902,884         11.45           1629         8,472         \$978,803         11.25           1926         9,576         \$1,044,816         11.43           2144         10,091         \$1,156,840         11.46           2472         15,568         \$1,738,920         11.34           3006         15,871         \$1,797,183         11.32           3035         15,763         \$1,844,693         11.32           3257         15,566         \$14,477,707         11.41 | Bundled Service Market           Usage         Revenue           Usage         Revenue           Customers MWh         Amount         Cents/kWh           429         7,265         \$802,132         11.04           678         7.027         \$805,268         11.46           969         8,062         \$908,900         11.27           1199         8,058         \$922,884         11.45           1629         8,472         \$978,803         11.55           1926         9,576         \$1,044,816         1.431           1926         9,576         \$1,944,816         1.432           2144         10,091         \$1,156,840         11.46           2442         15,167         \$1,779,610         11.34           27772         15,558         \$1,884,693         11.36           3006         15,871         \$1,879,183         11.32           3006         15,871         \$1,884,933         11.96           3257         15,756         \$18,84,693         11.41 | Bundled Service Market         Distrib           Usage         Revenue         Usage           Customers MWh         Amount         Cents/kWh         Customers MWh         429         7,265           678         7,027         \$805,268         11,04         678         7,027           969         8,062         \$908,900         11,27         969         8,062         \$908,900         11,27           1199         8,058         \$22,2844         11,45         1,199         8,052           1411         8,597         \$369,656         11,28         1,629         8,472           1926         9,576         \$1,948,460         11,43         1,926         9,576           2144         10,091         \$1,156,840         11,46         2,144         10,091           2442         15,167         \$1,739,900         11.34         2,472         9,806           2772         15,558         \$1,384,693         11,36         2,472         9,806           3006         15,871         \$1,739,7183         11,32         3,006         10,727           3357         15,763         \$1,884,693         11,946         109,360 | Bundled Service Market           Usage         Revenue           Usage         Revenue           2000 Customers MWh         Amount         Cents/kWh           429         7,265         \$802,132         11.04           678         7.027         \$805,268         11.46           969         8,062         \$908,900         11.27           1199         8,058         \$922,284         1.145           1292         9,576         \$11.94         969           1411         8,597         \$999,955         11.28           1629         8,472         \$97,955         1629           2144         10,091         \$1,156,840         11.46           2144         10,091         \$1,719,610         1.34           2144         10,091         \$1,719,610         1.34           2144         10,091         \$1,728,203         11.86           2772         15,563         \$1,738,920         11.18           3006         15,871         \$1,739,7183         11.32           3006         15,876         \$1,884,693         11.94           129,506         \$14,4779,707         11.41         109,360         \$1,402,157 </th <th>Bundled Service Market           Usage         Revenue           Customers MWh         Amount         Cents/kWh           429         7.265         \$802,132         11.04           678         7.027         \$806,268         11.46           969         8.062         \$909,000         11.27           1199         8.058         \$922,884         11.45           1629         8.472         \$969,860         11.27           1199         8.058         \$922,884         11.45           12244         10.091         \$1,156,840         11.46           2442         15,167         \$1,739,201         11.31           2772         15,558         \$1,738,920         11.34           3006         15,871         \$1,739,7183         11.32           3.357         15,763         \$1,846,933         11.96           129,506         \$14,777,707         11.41         109,360         \$14,02,157</th> <th>Bundled Service Market         Distribution           Usage         Revenue         Usage         Revenue         Usage         Usage         Usage         Revenue         Usage         Usage         Usage         Revenue         Usage         Usage</th> <th>Bundled Service Market         Distribution         OAT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         NWh           429         7,265         \$802,132         11.04         429         7,265         \$67,183         0.9         1         13.2         7,459           678         7.027         \$805,268         11.46         678         7.027         \$76,290         1.1         1         14.2         7,288           969         8.062         \$908,900         11.27         969         8,062         \$88,295         1.1         1         14.7         8,341           1199         8,058         \$\$22,884         11.45         1,199         8,052         \$989,855         1.1         1         14.7         8,341           11926         8,472         \$\$70,803         11.55         1,629         8,472         \$109,916         14.34         1,926         9,576         1.1         1         14.8         8,979           2144         10,091         \$1,156,840         11.46         2,442         9,806         \$133,516         1.4         1.20.0         15,889           3006         15,871</th> <th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Revenue         Revenue</th> <th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Reven</th> <th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         RtR Direct           2ustomers MWh         Amount         Cents/kWh         Amount         Cents/kWh         LRS MWs         MWh         Amount         Cents/kWh         RtR Direct           429         7,265         \$802,132         11.04         429         7,265         \$67,183         0.9         1         13.2         7,459         \$94,143         1.26         5,627           676         7,027         \$805,268         11.46         678         7,027         \$6,290         1.1         1         14.2         7,238         \$95,786         1.32         4,931           1411         8,597         \$969         8,062         \$88,295         1.1         1         14.7         8,341         \$100,539         1.21         5,295           1411         8,597         \$97,955         1.1         1         1.6.8         8,960         \$106,079         1.19         4,044           1926         9,576         \$1,724         \$108,979         \$11,80         979         \$11,80         979         \$11,89         \$1,30         \$3,76</th> <th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$\$805,285         11.1         14.2         7.238         \$\$857,866         1.32         4.931         2.305         1.32         4.931         2.305         1.32         7.459         \$\$94,143         1.26         5.627         1.832         4.931         2.307         4.931         2.307         4.931         2.307         1.1         14.2         7.238         \$\$95,766         1.32         4.931         2.307         3.365         1.32         4.931         2.307         3.355         1.411         1.47         8.341         \$100,539         1.21         5.304         4.933         3.355           1411         8.597         \$97,955         1.1         1         1.5.6         8.800         \$106,079         1.19         4.943         3.229         3.365         1.30         4.933         3.355           1411         8.597         \$97,955         1.1         1         1.5.6         8.800         \$106,079         1.19         4.943<th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459           969         8.062         \$908,900         11.27         969         8.062         \$88,295         1.1         1         14.2         7.238         \$95,786         1.32         4.931         2.307         7.238           1119         8.058         \$922,884         11.45         1.999         8.062         \$88,295         1.1         1         14.7         8.341         \$100,539         1.21         5.295         3.046         8.341           1119         8.058         \$922,884         11.45         1.999         \$11.6         1.8.897         \$959         5.1.1         1         1.5.6         8.890         \$100,79         1.19         4.048         4.842         8.800           1126         9.576         \$1.126         1         1.6.8         8.661         \$11.22         5.2</th><th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spiil           2ustomers MWh         Amount         Cents/kWh         Amount         Cents/kWh         Amount         Cents/kWh         RtR Direct         Distribution         Total         N           429         7.265         \$802,132         11.04         678         7.027         \$566,250         1.1         1         14.2         7.238         \$95766         1.32         4.931         2.307         7.238         4.125         9.99         8.062         \$908,800         1.27         969         8.062         \$88.295         1.1         1         14.47         7.238         \$95766         1.32         4.931         2.307         7.238         4.125           11199         8.058         \$922,884         11.45         1.997.955         1.1         1         1.4.7         8.294         \$107.995         1.30         4.939         3.355         8.294         4.071           1129         8.957.68         1.32         1.60.97.791         1.94         4.842         8.890         2.910         1.55         8.897.69         <td< th=""><th>Bundled Service Market         Distribution         OATT         ENERGY B           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344           678         7.027         \$805,268         11.46         678         7.027         \$76,290         1.1         1.42         7.238         \$95,786         1.32         4.931         2.007         7.238         4.125         1.817           1199         8.058         \$922,884         11.45         1.199         8.058         \$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316           1411         8.597         \$2978,803         11.629         8.472         \$103,921         1.2         1         1.6.8         8.661         \$12.39         3.355         8.294         4.671         1.312           1202         9.576</th></td<><th>Bundled Service Market         Distribution         OATT         ENERGY BALANCIN           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.45         1.199         8.058         \$\$922,884         11.45         1.199         8.058         \$\$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4,931         2.307         7.238         4,121         1,145         \$1,053           1199         8.058         \$392,884         11.45         1,199         8,058         \$33,799         1.2         1         15.6         8,880         \$106,079         1.19         4,048         4,842         8,800         2,101         (1,32)         \$1,053           1202         9,576         \$1,049,4816         11.43</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$805,288         11.46         678         7.027         \$806,288         11.46         678         7.027         \$806,288         11.45         1.199         8.062         \$88,295         1.1         1.42         7.238         \$95,786         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$122,991           1199         8.068         \$\$2908,900         11.27         \$1.053         \$129,11         1.14.2         7.238         \$95,776         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$229,793           1199         8.068         \$\$2908,900         11.27         1.155         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316         \$1.053         \$333,78           1292         9.576         \$1.044,816         1.421</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue           429         7.265         \$802.132         11.04         678         7.027         \$805.268         11.46         678         7.027         \$805.268         11.45         1.13.2         7.459         \$94.143         1.26         5.627         1.832         7.459         7.176         5.344         \$1.053         \$182.414         \$5378.156           678         7.027         \$805.268         11.45         1.42         7.238         \$957.66         1.32         4.931         2.307         7.238         4.125         1.817         \$1.053         \$229.794         \$2217.372           1199         8.058         \$929.890         1.1         1.42         7.238         \$957.66         1.32         4.931         2.307         7.228         4.125         1.817         \$1.053         \$322.1735           1199         8.058         \$927.980         1.1         1.42         7.238         \$1.07995         1.30         4.939         3.355</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for Excess           429         7.265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,258         \$1,053         \$182,414         \$3778,156         \$194,44         \$3778,156         \$194,44         \$378,156         \$194,44         \$3778,156         \$194,44         \$3778,156,153         \$103,333,418         \$24,413         \$336,58         \$3,346         \$3,344         \$3,355         \$3,244         \$371,1372         \$134,453           1199         8,058         \$393,799         1.2         1         1.58,848         \$109,798         1.304         \$3,355         \$2,344         \$1,31</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Spill (MWh)         Revenue           429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$87,1133         0.9         1         13.2         7.459         \$84,143         1.26         5.627         1.832         7.459         \$1.014         \$1.053         \$229,474         \$27,737         \$13.476         0.19           969         8.062         \$908,800         11.27         969         \$1.00,395         1.21         5.526         3.046         8.341         4.201         1.156         \$294,699         26.10         1.11         1.42         7.238         \$55,784         4.31         2.555         3.046         8.341         4.201         1.156         \$294,699<th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         Revenue         Refund for Excess         Coincid           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Revenue         Refund for Excess         Coincid           429         7.265         \$802,132         11.04         429         7.265         \$87,183         0.9         1         3.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$241,115         \$119,889         \$228,71         \$1,832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$333,378         \$22,1375         \$83,366         1.00         14,608           1199         8.058         \$907,956         \$1,14         1         1.56         8,908         \$100,413         \$1053         \$114,698</th><th>Bundled Service Market         Distribution         OATT         ENERCY BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh         Distribution         OATT         ENERcy BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for<br/>Exectomers         Coincident Firm Demi<br/>Exectomers           429         7.265         \$802,132         11.04         429         7.265         \$671,83         0.9         1         1         1.2         7.459         \$941,43         1.26         5.627         1.832         7.459         7.176         5.344         \$1,053         \$122,44         \$5781,376         0.514         1.15,54         6,385           969         8,062         \$808,900         1.1         1         4.2         7.288         \$1,053         \$124,44         \$5781,156         \$1514,660         1.011,478         6,385           969         8,062         \$88,295         1.1         1         4.2         7.288         \$1,053         \$324,493         \$2,077         \$324,489         \$2,017,372         \$333,469         \$2,221,372         \$33,469         \$2,221,372         \$33,666         1.011</th><th>Bundled Service Market           Usage         Revenue         Coincident Firm Demand KW         Spill (MWh)         Revenue         Revenue         Cointributed         Cointr</th><th>Bundled Service Market           Usage         Revenue         Control of Colspan="6"&gt;Revenue         Control of Colspan="6"&gt;Control of Colspan="6"Cols</th><th>Bundled Service Market           Usage         Revenue         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)         Revenue         Entergy BALANCING SERVICE         Coincident Firm Demand kW         Revenue           429         7.255         \$802,122         11.04         429         7.255         \$67,183         0.9         1         13.2         7.49         \$34,413         1.26         \$52,77.03         678         7.027         \$806,288         \$11.04         Revenue         Load (MWh)         Revenue         Coincident Firm Demand kW         Revenue         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Coincident Firm Demand kW         Revenue         Rif Direct         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Rif Direct         Rif Direct<!--</th--><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERCY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Re</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MVIh)         Splil (MWh)         Splil (MWh)         Revenue         Contributed         Admin         Demand XW         Revenue         Contributed         Admin         Demand Total         Cents/Wh           429         7.265         \$802.132         11.04         429         7.265         \$87.183         0.9         1         13.2         7.459         \$94.143         1.26         7.459         \$14.69         2.007         7.281         \$10.63         \$14.25         1.817         \$10.63         \$14.217.372         \$13.476         0.19         11.53         6.385         5.159         \$10.63         \$22.770         \$22.770         \$22.770         \$23.876         0.39         \$14.125         1.849         \$10.53         \$14.217.372         \$13.476         0.19         1.53.4         \$10.53         \$22.770         \$23.770         \$23.770         \$23.876         0.39           1191         8.062         \$800.278.820         1.11         1.478</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE         STANDBY SERVICE         Energy-<br/>Displaced           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         Cantoder Firm Demand KW         Revenue         CentsKWh         Revenue         Load (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         11         11         2.2         7.459         Spill (Service MARKet         Spill (Service Spill Coll (Spill Total CentsKWh Metered         Contributed         Contributed         Contributed         Contributed         Admin         Demand Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Met</th><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERGY BALANCING SERVICE         STANDBY SERVICE         Revenue         Revenue         Revenue         Revenue         Standbal         Standbal</th><th>Bundled Service Market         Distribution         OAT         Control of the service Market         Distribution         OAT         ENERCY BLANCING SERVICE         ENERCY BLANCING SERVICE         Control of the service Market         Enercy-related         Distribution         Control of the service         State of the service Market         State of the service Market&lt;</th><th>Bundled Service Market           Usage         Revenue         Controluted         Controluted         STAPS SERVICE         <th cols<="" th=""><th>Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan</th><th>Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue<th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th></th></th></th></th></th></th></th> | Bundled Service Market           Usage         Revenue           Customers MWh         Amount         Cents/kWh           429         7.265         \$802,132         11.04           678         7.027         \$806,268         11.46           969         8.062         \$909,000         11.27           1199         8.058         \$922,884         11.45           1629         8.472         \$969,860         11.27           1199         8.058         \$922,884         11.45           12244         10.091         \$1,156,840         11.46           2442         15,167         \$1,739,201         11.31           2772         15,558         \$1,738,920         11.34           3006         15,871         \$1,739,7183         11.32           3.357         15,763         \$1,846,933         11.96           129,506         \$14,777,707         11.41         109,360         \$14,02,157 | Bundled Service Market         Distribution           Usage         Revenue         Usage         Revenue         Usage         Usage         Usage         Revenue         Usage         Usage         Usage         Revenue         Usage         Usage | Bundled Service Market         Distribution         OAT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         NWh           429         7,265         \$802,132         11.04         429         7,265         \$67,183         0.9         1         13.2         7,459           678         7.027         \$805,268         11.46         678         7.027         \$76,290         1.1         1         14.2         7,288           969         8.062         \$908,900         11.27         969         8,062         \$88,295         1.1         1         14.7         8,341           1199         8,058         \$\$22,884         11.45         1,199         8,052         \$989,855         1.1         1         14.7         8,341           11926         8,472         \$\$70,803         11.55         1,629         8,472         \$109,916         14.34         1,926         9,576         1.1         1         14.8         8,979           2144         10,091         \$1,156,840         11.46         2,442         9,806         \$133,516         1.4         1.20.0         15,889           3006         15,871 | Bundled Service Market         Distribution         OATT           Usage         Revenue         Revenue         Revenue | Bundled Service Market         Distribution         OATT           Usage         Revenue         Reven | Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         RtR Direct           2ustomers MWh         Amount         Cents/kWh         Amount         Cents/kWh         LRS MWs         MWh         Amount         Cents/kWh         RtR Direct           429         7,265         \$802,132         11.04         429         7,265         \$67,183         0.9         1         13.2         7,459         \$94,143         1.26         5,627           676         7,027         \$805,268         11.46         678         7,027         \$6,290         1.1         1         14.2         7,238         \$95,786         1.32         4,931           1411         8,597         \$969         8,062         \$88,295         1.1         1         14.7         8,341         \$100,539         1.21         5,295           1411         8,597         \$97,955         1.1         1         1.6.8         8,960         \$106,079         1.19         4,044           1926         9,576         \$1,724         \$108,979         \$11,80         979         \$11,80         979         \$11,89         \$1,30         \$3,76 | Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$\$805,285         11.1         14.2         7.238         \$\$857,866         1.32         4.931         2.305         1.32         4.931         2.305         1.32         7.459         \$\$94,143         1.26         5.627         1.832         4.931         2.307         4.931         2.307         4.931         2.307         1.1         14.2         7.238         \$\$95,766         1.32         4.931         2.307         3.365         1.32         4.931         2.307         3.355         1.411         1.47         8.341         \$100,539         1.21         5.304         4.933         3.355           1411         8.597         \$97,955         1.1         1         1.5.6         8.800         \$106,079         1.19         4.943         3.229         3.365         1.30         4.933         3.355           1411         8.597         \$97,955         1.1         1         1.5.6         8.800         \$106,079         1.19         4.943 <th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459           969         8.062         \$908,900         11.27         969         8.062         \$88,295         1.1         1         14.2         7.238         \$95,786         1.32         4.931         2.307         7.238           1119         8.058         \$922,884         11.45         1.999         8.062         \$88,295         1.1         1         14.7         8.341         \$100,539         1.21         5.295         3.046         8.341           1119         8.058         \$922,884         11.45         1.999         \$11.6         1.8.897         \$959         5.1.1         1         1.5.6         8.890         \$100,79         1.19         4.048         4.842         8.800           1126         9.576         \$1.126         1         1.6.8         8.661         \$11.22         5.2</th> <th>Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spiil           2ustomers MWh         Amount         Cents/kWh         Amount         Cents/kWh         Amount         Cents/kWh         RtR Direct         Distribution         Total         N           429         7.265         \$802,132         11.04         678         7.027         \$566,250         1.1         1         14.2         7.238         \$95766         1.32         4.931         2.307         7.238         4.125         9.99         8.062         \$908,800         1.27         969         8.062         \$88.295         1.1         1         14.47         7.238         \$95766         1.32         4.931         2.307         7.238         4.125           11199         8.058         \$922,884         11.45         1.997.955         1.1         1         1.4.7         8.294         \$107.995         1.30         4.939         3.355         8.294         4.071           1129         8.957.68         1.32         1.60.97.791         1.94         4.842         8.890         2.910         1.55         8.897.69         <td< th=""><th>Bundled Service Market         Distribution         OATT         ENERGY B           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344           678         7.027         \$805,268         11.46         678         7.027         \$76,290         1.1         1.42         7.238         \$95,786         1.32         4.931         2.007         7.238         4.125         1.817           1199         8.058         \$922,884         11.45         1.199         8.058         \$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316           1411         8.597         \$2978,803         11.629         8.472         \$103,921         1.2         1         1.6.8         8.661         \$12.39         3.355         8.294         4.671         1.312           1202         9.576</th></td<><th>Bundled Service Market         Distribution         OATT         ENERGY BALANCIN           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.45         1.199         8.058         \$\$922,884         11.45         1.199         8.058         \$\$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4,931         2.307         7.238         4,121         1,145         \$1,053           1199         8.058         \$392,884         11.45         1,199         8,058         \$33,799         1.2         1         15.6         8,880         \$106,079         1.19         4,048         4,842         8,800         2,101         (1,32)         \$1,053           1202         9,576         \$1,049,4816         11.43</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$805,288         11.46         678         7.027         \$806,288         11.46         678         7.027         \$806,288         11.45         1.199         8.062         \$88,295         1.1         1.42         7.238         \$95,786         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$122,991           1199         8.068         \$\$2908,900         11.27         \$1.053         \$129,11         1.14.2         7.238         \$95,776         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$229,793           1199         8.068         \$\$2908,900         11.27         1.155         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316         \$1.053         \$333,78           1292         9.576         \$1.044,816         1.421</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue           429         7.265         \$802.132         11.04         678         7.027         \$805.268         11.46         678         7.027         \$805.268         11.45         1.13.2         7.459         \$94.143         1.26         5.627         1.832         7.459         7.176         5.344         \$1.053         \$182.414         \$5378.156           678         7.027         \$805.268         11.45         1.42         7.238         \$957.66         1.32         4.931         2.307         7.238         4.125         1.817         \$1.053         \$229.794         \$2217.372           1199         8.058         \$929.890         1.1         1.42         7.238         \$957.66         1.32         4.931         2.307         7.228         4.125         1.817         \$1.053         \$322.1735           1199         8.058         \$927.980         1.1         1.42         7.238         \$1.07995         1.30         4.939         3.355</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for Excess           429         7.265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,258         \$1,053         \$182,414         \$3778,156         \$194,44         \$3778,156         \$194,44         \$378,156         \$194,44         \$3778,156         \$194,44         \$3778,156,153         \$103,333,418         \$24,413         \$336,58         \$3,346         \$3,344         \$3,355         \$3,244         \$371,1372         \$134,453           1199         8,058         \$393,799         1.2         1         1.58,848         \$109,798         1.304         \$3,355         \$2,344         \$1,31</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Spill (MWh)         Revenue           429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$87,1133         0.9         1         13.2         7.459         \$84,143         1.26         5.627         1.832         7.459         \$1.014         \$1.053         \$229,474         \$27,737         \$13.476         0.19           969         8.062         \$908,800         11.27         969         \$1.00,395         1.21         5.526         3.046         8.341         4.201         1.156         \$294,699         26.10         1.11         1.42         7.238         \$55,784         4.31         2.555         3.046         8.341         4.201         1.156         \$294,699<th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         Revenue         Refund for Excess         Coincid           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Revenue         Refund for Excess         Coincid           429         7.265         \$802,132         11.04         429         7.265         \$87,183         0.9         1         3.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$241,115         \$119,889         \$228,71         \$1,832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$333,378         \$22,1375         \$83,366         1.00         14,608           1199         8.058         \$907,956         \$1,14         1         1.56         8,908         \$100,413         \$1053         \$114,698</th><th>Bundled Service Market         Distribution         OATT         ENERCY BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh         Distribution         OATT         ENERcy BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for<br/>Exectomers         Coincident Firm Demi<br/>Exectomers           429         7.265         \$802,132         11.04         429         7.265         \$671,83         0.9         1         1         1.2         7.459         \$941,43         1.26         5.627         1.832         7.459         7.176         5.344         \$1,053         \$122,44         \$5781,376         0.514         1.15,54         6,385           969         8,062         \$808,900         1.1         1         4.2         7.288         \$1,053         \$124,44         \$5781,156         \$1514,660         1.011,478         6,385           969         8,062         \$88,295         1.1         1         4.2         7.288         \$1,053         \$324,493         \$2,077         \$324,489         \$2,017,372         \$333,469         \$2,221,372         \$33,469         \$2,221,372         \$33,666         1.011</th><th>Bundled Service Market           Usage         Revenue         Coincident Firm Demand KW         Spill (MWh)         Revenue         Revenue         Cointributed         Cointr</th><th>Bundled Service Market           Usage         Revenue         Control of Colspan="6"&gt;Revenue         Control of Colspan="6"&gt;Control of Colspan="6"Cols</th><th>Bundled Service Market           Usage         Revenue         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)         Revenue         Entergy BALANCING SERVICE         Coincident Firm Demand kW         Revenue           429         7.255         \$802,122         11.04         429         7.255         \$67,183         0.9         1         13.2         7.49         \$34,413         1.26         \$52,77.03         678         7.027         \$806,288         \$11.04         Revenue         Load (MWh)         Revenue         Coincident Firm Demand kW         Revenue         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Coincident Firm Demand kW         Revenue         Rif Direct         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Rif Direct         Rif Direct<!--</th--><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERCY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Re</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MVIh)         Splil (MWh)         Splil (MWh)         Revenue         Contributed         Admin         Demand XW         Revenue         Contributed         Admin         Demand Total         Cents/Wh           429         7.265         \$802.132         11.04         429         7.265         \$87.183         0.9         1         13.2         7.459         \$94.143         1.26         7.459         \$14.69         2.007         7.281         \$10.63         \$14.25         1.817         \$10.63         \$14.217.372         \$13.476         0.19         11.53         6.385         5.159         \$10.63         \$22.770         \$22.770         \$22.770         \$23.876         0.39         \$14.125         1.849         \$10.53         \$14.217.372         \$13.476         0.19         1.53.4         \$10.53         \$22.770         \$23.770         \$23.770         \$23.876         0.39           1191         8.062         \$800.278.820         1.11         1.478</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE         STANDBY SERVICE         Energy-<br/>Displaced           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         Cantoder Firm Demand KW         Revenue         CentsKWh         Revenue         Load (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         11         11         2.2         7.459         Spill (Service MARKet         Spill (Service Spill Coll (Spill Total CentsKWh Metered         Contributed         Contributed         Contributed         Contributed         Admin         Demand Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Met</th><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERGY BALANCING SERVICE         STANDBY SERVICE         Revenue         Revenue         Revenue         Revenue         Standbal         Standbal</th><th>Bundled Service Market         Distribution         OAT         Control of the service Market         Distribution         OAT         ENERCY BLANCING SERVICE         ENERCY BLANCING SERVICE         Control of the service Market         Enercy-related         Distribution         Control of the service         State of the service Market         State of the service Market&lt;</th><th>Bundled Service Market           Usage         Revenue         Controluted         Controluted         STAPS SERVICE         <th cols<="" th=""><th>Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan</th><th>Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue<th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th></th></th></th></th></th></th> | Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459           969         8.062         \$908,900         11.27         969         8.062         \$88,295         1.1         1         14.2         7.238         \$95,786         1.32         4.931         2.307         7.238           1119         8.058         \$922,884         11.45         1.999         8.062         \$88,295         1.1         1         14.7         8.341         \$100,539         1.21         5.295         3.046         8.341           1119         8.058         \$922,884         11.45         1.999         \$11.6         1.8.897         \$959         5.1.1         1         1.5.6         8.890         \$100,79         1.19         4.048         4.842         8.800           1126         9.576         \$1.126         1         1.6.8         8.661         \$11.22         5.2 | Bundled Service Market         Distribution         OATT           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spiil           2ustomers MWh         Amount         Cents/kWh         Amount         Cents/kWh         Amount         Cents/kWh         RtR Direct         Distribution         Total         N           429         7.265         \$802,132         11.04         678         7.027         \$566,250         1.1         1         14.2         7.238         \$95766         1.32         4.931         2.307         7.238         4.125         9.99         8.062         \$908,800         1.27         969         8.062         \$88.295         1.1         1         14.47         7.238         \$95766         1.32         4.931         2.307         7.238         4.125           11199         8.058         \$922,884         11.45         1.997.955         1.1         1         1.4.7         8.294         \$107.995         1.30         4.939         3.355         8.294         4.071           1129         8.957.68         1.32         1.60.97.791         1.94         4.842         8.890         2.910         1.55         8.897.69 <td< th=""><th>Bundled Service Market         Distribution         OATT         ENERGY B           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344           678         7.027         \$805,268         11.46         678         7.027         \$76,290         1.1         1.42         7.238         \$95,786         1.32         4.931         2.007         7.238         4.125         1.817           1199         8.058         \$922,884         11.45         1.199         8.058         \$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316           1411         8.597         \$2978,803         11.629         8.472         \$103,921         1.2         1         1.6.8         8.661         \$12.39         3.355         8.294         4.671         1.312           1202         9.576</th></td<> <th>Bundled Service Market         Distribution         OATT         ENERGY BALANCIN           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.45         1.199         8.058         \$\$922,884         11.45         1.199         8.058         \$\$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4,931         2.307         7.238         4,121         1,145         \$1,053           1199         8.058         \$392,884         11.45         1,199         8,058         \$33,799         1.2         1         15.6         8,880         \$106,079         1.19         4,048         4,842         8,800         2,101         (1,32)         \$1,053           1202         9,576         \$1,049,4816         11.43</th> <th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$805,288         11.46         678         7.027         \$806,288         11.46         678         7.027         \$806,288         11.45         1.199         8.062         \$88,295         1.1         1.42         7.238         \$95,786         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$122,991           1199         8.068         \$\$2908,900         11.27         \$1.053         \$129,11         1.14.2         7.238         \$95,776         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$229,793           1199         8.068         \$\$2908,900         11.27         1.155         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316         \$1.053         \$333,78           1292         9.576         \$1.044,816         1.421</th> <th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue           429         7.265         \$802.132         11.04         678         7.027         \$805.268         11.46         678         7.027         \$805.268         11.45         1.13.2         7.459         \$94.143         1.26         5.627         1.832         7.459         7.176         5.344         \$1.053         \$182.414         \$5378.156           678         7.027         \$805.268         11.45         1.42         7.238         \$957.66         1.32         4.931         2.307         7.238         4.125         1.817         \$1.053         \$229.794         \$2217.372           1199         8.058         \$929.890         1.1         1.42         7.238         \$957.66         1.32         4.931         2.307         7.228         4.125         1.817         \$1.053         \$322.1735           1199         8.058         \$927.980         1.1         1.42         7.238         \$1.07995         1.30         4.939         3.355</th> <th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for Excess           429         7.265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,258         \$1,053         \$182,414         \$3778,156         \$194,44         \$3778,156         \$194,44         \$378,156         \$194,44         \$3778,156         \$194,44         \$3778,156,153         \$103,333,418         \$24,413         \$336,58         \$3,346         \$3,344         \$3,355         \$3,244         \$371,1372         \$134,453           1199         8,058         \$393,799         1.2         1         1.58,848         \$109,798         1.304         \$3,355         \$2,344         \$1,31</th> <th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Spill (MWh)         Revenue           429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$87,1133         0.9         1         13.2         7.459         \$84,143         1.26         5.627         1.832         7.459         \$1.014         \$1.053         \$229,474         \$27,737         \$13.476         0.19           969         8.062         \$908,800         11.27         969         \$1.00,395         1.21         5.526         3.046         8.341         4.201         1.156         \$294,699         26.10         1.11         1.42         7.238         \$55,784         4.31         2.555         3.046         8.341         4.201         1.156         \$294,699<th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         Revenue         Refund for Excess         Coincid           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Revenue         Refund for Excess         Coincid           429         7.265         \$802,132         11.04         429         7.265         \$87,183         0.9         1         3.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$241,115         \$119,889         \$228,71         \$1,832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$333,378         \$22,1375         \$83,366         1.00         14,608           1199         8.058         \$907,956         \$1,14         1         1.56         8,908         \$100,413         \$1053         \$114,698</th><th>Bundled Service Market         Distribution         OATT         ENERCY BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh         Distribution         OATT         ENERcy BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for<br/>Exectomers         Coincident Firm Demi<br/>Exectomers           429         7.265         \$802,132         11.04         429         7.265         \$671,83         0.9         1         1         1.2         7.459         \$941,43         1.26         5.627         1.832         7.459         7.176         5.344         \$1,053         \$122,44         \$5781,376         0.514         1.15,54         6,385           969         8,062         \$808,900         1.1         1         4.2         7.288         \$1,053         \$124,44         \$5781,156         \$1514,660         1.011,478         6,385           969         8,062         \$88,295         1.1         1         4.2         7.288         \$1,053         \$324,493         \$2,077         \$324,489         \$2,017,372         \$333,469         \$2,221,372         \$33,469         \$2,221,372         \$33,666         1.011</th><th>Bundled Service Market           Usage         Revenue         Coincident Firm Demand KW         Spill (MWh)         Revenue         Revenue         Cointributed         Cointr</th><th>Bundled Service Market           Usage         Revenue         Control of Colspan="6"&gt;Revenue         Control of Colspan="6"&gt;Control of Colspan="6"Cols</th><th>Bundled Service Market           Usage         Revenue         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)         Revenue         Entergy BALANCING SERVICE         Coincident Firm Demand kW         Revenue           429         7.255         \$802,122         11.04         429         7.255         \$67,183         0.9         1         13.2         7.49         \$34,413         1.26         \$52,77.03         678         7.027         \$806,288         \$11.04         Revenue         Load (MWh)         Revenue         Coincident Firm Demand kW         Revenue         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Coincident Firm Demand kW         Revenue         Rif Direct         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Rif Direct         Rif Direct<!--</th--><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERCY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Re</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MVIh)         Splil (MWh)         Splil (MWh)         Revenue         Contributed         Admin         Demand XW         Revenue         Contributed         Admin         Demand Total         Cents/Wh           429         7.265         \$802.132         11.04         429         7.265         \$87.183         0.9         1         13.2         7.459         \$94.143         1.26         7.459         \$14.69         2.007         7.281         \$10.63         \$14.25         1.817         \$10.63         \$14.217.372         \$13.476         0.19         11.53         6.385         5.159         \$10.63         \$22.770         \$22.770         \$22.770         \$23.876         0.39         \$14.125         1.849         \$10.53         \$14.217.372         \$13.476         0.19         1.53.4         \$10.53         \$22.770         \$23.770         \$23.770         \$23.876         0.39           1191         8.062         \$800.278.820         1.11         1.478</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE         STANDBY SERVICE         Energy-<br/>Displaced           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         Cantoder Firm Demand KW         Revenue         CentsKWh         Revenue         Load (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         11         11         2.2         7.459         Spill (Service MARKet         Spill (Service Spill Coll (Spill Total CentsKWh Metered         Contributed         Contributed         Contributed         Contributed         Admin         Demand Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Met</th><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERGY BALANCING SERVICE         STANDBY SERVICE         Revenue         Revenue         Revenue         Revenue         Standbal         Standbal</th><th>Bundled Service Market         Distribution         OAT         Control of the service Market         Distribution         OAT         ENERCY BLANCING SERVICE         ENERCY BLANCING SERVICE         Control of the service Market         Enercy-related         Distribution         Control of the service         State of the service Market         State of the service Market&lt;</th><th>Bundled Service Market           Usage         Revenue         Controluted         Controluted         STAPS SERVICE         <th cols<="" th=""><th>Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan</th><th>Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue<th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th></th></th></th></th></th> | Bundled Service Market         Distribution         OATT         ENERGY B           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         429         7.265         \$67,183         0.9         1         13.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344           678         7.027         \$805,268         11.46         678         7.027         \$76,290         1.1         1.42         7.238         \$95,786         1.32         4.931         2.007         7.238         4.125         1.817           1199         8.058         \$922,884         11.45         1.199         8.058         \$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316           1411         8.597         \$2978,803         11.629         8.472         \$103,921         1.2         1         1.6.8         8.661         \$12.39         3.355         8.294         4.671         1.312           1202         9.576 | Bundled Service Market         Distribution         OATT         ENERGY BALANCIN           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.46         678         7.027         \$\$806,288         11.45         1.199         8.058         \$\$922,884         11.45         1.199         8.058         \$\$93,799         1.2         1         15.5         8.294         \$107,985         1.30         4,931         2.307         7.238         4,121         1,145         \$1,053           1199         8.058         \$392,884         11.45         1,199         8,058         \$33,799         1.2         1         15.6         8,880         \$106,079         1.19         4,048         4,842         8,800         2,101         (1,32)         \$1,053           1202         9,576         \$1,049,4816         11.43 | Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)           429         7.265         \$802,132         11.04         678         7.027         \$805,288         11.46         678         7.027         \$806,288         11.46         678         7.027         \$806,288         11.45         1.199         8.062         \$88,295         1.1         1.42         7.238         \$95,786         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$122,991           1199         8.068         \$\$2908,900         11.27         \$1.053         \$129,11         1.14.2         7.238         \$95,776         1.32         4.931         2.307         7.238         4.125         1.117         \$1.053         \$229,793           1199         8.068         \$\$2908,900         11.27         1.155         8.294         \$107,985         1.30         4.939         3.355         8.294         4.671         1.316         \$1.053         \$333,78           1292         9.576         \$1.044,816         1.421 | Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue           429         7.265         \$802.132         11.04         678         7.027         \$805.268         11.46         678         7.027         \$805.268         11.45         1.13.2         7.459         \$94.143         1.26         5.627         1.832         7.459         7.176         5.344         \$1.053         \$182.414         \$5378.156           678         7.027         \$805.268         11.45         1.42         7.238         \$957.66         1.32         4.931         2.307         7.238         4.125         1.817         \$1.053         \$229.794         \$2217.372           1199         8.058         \$929.890         1.1         1.42         7.238         \$957.66         1.32         4.931         2.307         7.228         4.125         1.817         \$1.053         \$322.1735           1199         8.058         \$927.980         1.1         1.42         7.238         \$1.07995         1.30         4.939         3.355 | Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for Excess           429         7.265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,265         \$802.132         11.04         429         7.265         \$807.113         0.9         1         1.2.2         7.459         \$94,143         1.266         5.627         1.832         7.459         \$7,258         \$1,053         \$182,414         \$3778,156         \$194,44         \$3778,156         \$194,44         \$378,156         \$194,44         \$3778,156         \$194,44         \$3778,156,153         \$103,333,418         \$24,413         \$336,58         \$3,346         \$3,344         \$3,355         \$3,244         \$371,1372         \$134,453           1199         8,058         \$393,799         1.2         1         1.58,848         \$109,798         1.304         \$3,355         \$2,344         \$1,31 | Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Spill (MWh)         Revenue           429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$802,132         11.04         429         7.265         \$87,1133         0.9         1         13.2         7.459         \$84,143         1.26         5.627         1.832         7.459         \$1.014         \$1.053         \$229,474         \$27,737         \$13.476         0.19           969         8.062         \$908,800         11.27         969         \$1.00,395         1.21         5.526         3.046         8.341         4.201         1.156         \$294,699         26.10         1.11         1.42         7.238         \$55,784         4.31         2.555         3.046         8.341         4.201         1.156         \$294,699 <th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         Revenue         Refund for Excess         Coincid           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Revenue         Refund for Excess         Coincid           429         7.265         \$802,132         11.04         429         7.265         \$87,183         0.9         1         3.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$241,115         \$119,889         \$228,71         \$1,832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$333,378         \$22,1375         \$83,366         1.00         14,608           1199         8.058         \$907,956         \$1,14         1         1.56         8,908         \$100,413         \$1053         \$114,698</th> <th>Bundled Service Market         Distribution         OATT         ENERCY BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh         Distribution         OATT         ENERcy BALANCING SERVICE         Coincident Firm Demi<br/>Exectomers MWh           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for<br/>Exectomers         Coincident Firm Demi<br/>Exectomers           429         7.265         \$802,132         11.04         429         7.265         \$671,83         0.9         1         1         1.2         7.459         \$941,43         1.26         5.627         1.832         7.459         7.176         5.344         \$1,053         \$122,44         \$5781,376         0.514         1.15,54         6,385           969         8,062         \$808,900         1.1         1         4.2         7.288         \$1,053         \$124,44         \$5781,156         \$1514,660         1.011,478         6,385           969         8,062         \$88,295         1.1         1         4.2         7.288         \$1,053         \$324,493         \$2,077         \$324,489         \$2,017,372         \$333,469         \$2,221,372         \$33,469         \$2,221,372         \$33,666         1.011</th> <th>Bundled Service Market           Usage         Revenue         Coincident Firm Demand KW         Spill (MWh)         Revenue         Revenue         Cointributed         Cointr</th> <th>Bundled Service Market           Usage         Revenue         Control of Colspan="6"&gt;Revenue         Control of Colspan="6"&gt;Control of Colspan="6"Cols</th> <th>Bundled Service Market           Usage         Revenue         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)         Revenue         Entergy BALANCING SERVICE         Coincident Firm Demand kW         Revenue           429         7.255         \$802,122         11.04         429         7.255         \$67,183         0.9         1         13.2         7.49         \$34,413         1.26         \$52,77.03         678         7.027         \$806,288         \$11.04         Revenue         Load (MWh)         Revenue         Coincident Firm Demand kW         Revenue         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Coincident Firm Demand kW         Revenue         Rif Direct         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Rif Direct         Rif Direct<!--</th--><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERCY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Controlwert         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Revenue         Spill (MWh         Re</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MVIh)         Splil (MWh)         Splil (MWh)         Revenue         Contributed         Admin         Demand XW         Revenue         Contributed         Admin         Demand Total         Cents/Wh           429         7.265         \$802.132         11.04         429         7.265         \$87.183         0.9         1         13.2         7.459         \$94.143         1.26         7.459         \$14.69         2.007         7.281         \$10.63         \$14.25         1.817         \$10.63         \$14.217.372         \$13.476         0.19         11.53         6.385         5.159         \$10.63         \$22.770         \$22.770         \$22.770         \$23.876         0.39         \$14.125         1.849         \$10.53         \$14.217.372         \$13.476         0.19         1.53.4         \$10.53         \$22.770         \$23.770         \$23.770         \$23.876         0.39           1191         8.062         \$800.278.820         1.11         1.478</th><th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE         STANDBY SERVICE         Energy-<br/>Displaced           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         Cantoder Firm Demand KW         Revenue         CentsKWh         Revenue         Load (MWh)         Revenue         Contident Firm Demand KW         Revenue         Displaced           429         7.265         Spill (Service MARKet         11         11         2.2         7.459         Spill (Service MARKet         Spill (Service Spill Coll (Spill Total CentsKWh Metered         Contributed         Contributed         Contributed         Contributed         Admin         Demand Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill Coll (Spill Coll (Spill Total CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Met</th><th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERGY BALANCING SERVICE         STANDBY SERVICE         Revenue         Revenue         Revenue         Revenue         Standbal         Standbal</th><th>Bundled Service Market         Distribution         OAT         Control of the service Market         Distribution         OAT         ENERCY BLANCING SERVICE         ENERCY BLANCING SERVICE         Control of the service Market         Enercy-related         Distribution         Control of the service         State of the service Market         State of the service Market&lt;</th><th>Bundled Service Market           Usage         Revenue         Controluted         Controluted         STAPS SERVICE         <th cols<="" th=""><th>Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan</th><th>Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue<th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th></th></th></th></th> | Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERGY BALANCING SERVICE         Revenue         Refund for Excess         Coincid           Usage         Revenue         Usage         Revenue         Usage         Revenue         Usage         Revenue         Spill (MWh)         Spill (MWh)         Revenue         Refund for Excess         Coincid           429         7.265         \$802,132         11.04         429         7.265         \$87,183         0.9         1         3.2         7.459         \$94,143         1.26         5.627         1.832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$241,115         \$119,889         \$228,71         \$1,832         7.459         7.176         5.344         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$378,156         -\$114,669         \$12,514         \$1053         \$122,414         \$333,378         \$22,1375         \$83,366         1.00         14,608           1199         8.058         \$907,956         \$1,14         1         1.56         8,908         \$100,413         \$1053         \$114,698 | Bundled Service Market         Distribution         OATT         ENERCY BALANCING SERVICE         Coincident Firm Demi<br>Exectomers MWh         Distribution         OATT         ENERcy BALANCING SERVICE         Coincident Firm Demi<br>Exectomers MWh           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Refund for<br>Exectomers         Coincident Firm Demi<br>Exectomers           429         7.265         \$802,132         11.04         429         7.265         \$671,83         0.9         1         1         1.2         7.459         \$941,43         1.26         5.627         1.832         7.459         7.176         5.344         \$1,053         \$122,44         \$5781,376         0.514         1.15,54         6,385           969         8,062         \$808,900         1.1         1         4.2         7.288         \$1,053         \$124,44         \$5781,156         \$1514,660         1.011,478         6,385           969         8,062         \$88,295         1.1         1         4.2         7.288         \$1,053         \$324,493         \$2,077         \$324,489         \$2,017,372         \$333,469         \$2,221,372         \$33,469         \$2,221,372         \$33,666         1.011 | Bundled Service Market           Usage         Revenue         Coincident Firm Demand KW         Spill (MWh)         Revenue         Revenue         Cointributed         Cointr | Bundled Service Market           Usage         Revenue         Control of Colspan="6">Revenue         Control of Colspan="6">Control of Colspan="6"Cols | Bundled Service Market           Usage         Revenue         OATT         ENERGY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spil (MWh)         Revenue         Entergy BALANCING SERVICE         Coincident Firm Demand kW         Revenue           429         7.255         \$802,122         11.04         429         7.255         \$67,183         0.9         1         13.2         7.49         \$34,413         1.26         \$52,77.03         678         7.027         \$806,288         \$11.04         Revenue         Load (MWh)         Revenue         Coincident Firm Demand kW         Revenue         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Coincident Firm Demand kW         Revenue         Rif Direct         Coincident Firm Demand kW         Revenue         Rif Direct         Education         Rif Direct         Rif Direct </th <th>Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERCY BALANCING SERVICE         STANDBY SERVICE           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)         Revenue         Revenue         Controlwert         Spill (MWh)         Revenue         Controlwert         Spill (MWh)       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       1         13.2         7.459         \$94.143         1.26         7.459         \$14.69         2.007         7.281         \$10.63         \$14.25         1.817         \$10.63         \$14.217.372         \$13.476         0.19         11.53         6.385         5.159         \$10.63         \$22.770         \$22.770         \$22.770         \$23.876         0.39         \$14.125         1.849         \$10.53         \$14.217.372         \$13.476         0.19         1.53.4         \$10.53         \$22.770         \$23.770         \$23.770         \$23.876         0.39           1191         8.062         \$800.278.820         1.11         1.478</th> <th>Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE         STANDBY SERVICE         Energy-<br/>Displaced           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         Spill (MWh)         Revenue      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7.265         \$87.183         0.9         1         13.2         7.459         \$94.143         1.26         7.459         \$14.69         2.007         7.281         \$10.63         \$14.25         1.817         \$10.63         \$14.217.372         \$13.476         0.19         11.53         6.385         5.159         \$10.63         \$22.770         \$22.770         \$22.770         \$23.876         0.39         \$14.125         1.849         \$10.53         \$14.217.372         \$13.476         0.19         1.53.4         \$10.53         \$22.770         \$23.770         \$23.770         \$23.876         0.39           1191         8.062         \$800.278.820         1.11         1.478 | Bundled Service Market           Usage         Revenue         Distribution         OATT         ENERCY BALANCING SERVICE         STANDBY SERVICE         Energy-<br>Displaced           Usage         Revenue         Usage         Revenue         Usage         Revenue         Load (MWh)         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CentsKWh Metered         CentsKWh Metered         Spill CentsKWh Metered         Spill CentsKWh Metered         CentsKWh Met | Bundled Service Market           Usage         Revenue         Distribution         OAT         ENERGY BALANCING SERVICE         STANDBY SERVICE         Revenue         Revenue         Revenue         Revenue         Standbal         Standbal | Bundled Service Market         Distribution         OAT         Control of the service Market         Distribution         OAT         ENERCY BLANCING SERVICE         ENERCY BLANCING SERVICE         Control of the service Market         Enercy-related         Distribution         Control of the service         State of the service Market         State of the service Market< | Bundled Service Market           Usage         Revenue         Controluted         Controluted         STAPS SERVICE         STAPS SERVICE <th cols<="" th=""><th>Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan</th><th>Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue<th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th></th></th> | <th>Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan</th> <th>Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue<th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th></th> | Bundled Service Market         Distribution         OAT         ENErgy Balance / Borgy Balan | Bundled Service Market         Exerce Market         Statisburger Market         OAT         OAT         OAT         Cand (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Spil (MV)         Revenue         Consident Fim Demand VV         Revenue         Revenue <th>Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M</th> | Bundled Service Market         Instribution         OAT         Encloyed All (MW)         Spil (M |

## Renewable to Retail NSUARB IR-8 Attachment 13 Page 10 of 16 Renewable to Retail Application Appendix 24 Page 1 of 2

The remaining tabs in Appendix 24 have been provided in electronic format only.

Renewable to Retail NSUARB IR-8 Attachment 13 Page 11 of 16 Renewable to Retail Application Appendix 24 Page 2 of 2

| 1  | Reque      | est DR-35:  |
|----|------------|---|
| 2  |            |   |
| 3  | Furth      | er to Multeese DR-30:   |
| 4  |            |   |
| 5  | (a)        | Please identify any adjustments NSPI anticipates making its Cost of Service model         |
| 6  |            | or its inputs to reflect RtR?   |
| 7  |            |   |
| 8  | <b>(b)</b> | It is noted at Lines 19-21 on page 1 that NSPI's current pricing model cannot be          |
| 9  |            | applied to RtR because test year class usage cannot be reliably predicted. Please         |
| 10 |            | elaborate on how the proposed adjustment of actual monthly demands to equivalent          |
| 11 |            | winter peak demands in the SS tariff addresses this issue, from both a cost               |
| 12 |            | allocation and a revenue perspective.   |
| 13 |            |   |
| 14 | (c)        | Apart from the cost allocation and revenue perspectives, please identify any other        |
| 15 |            | aspects of RtR that would preclude using the actual monthly demands as the                |
| 16 |            | Monthly Standby Contract Demand.  |
| 17 |            |   |
| 18 | Respo      | nse DR-35:  |
| 19 |            |   |
| 20 | (a)        | NS Power does not anticipate making any adjustments to the COS model for the rate         |
| 21 |            | setting purposes of this RtR proceeding. For General Rate Applications (GRA) filed in     |
| 22 |            | future with the benefit of RtR service uptake estimates, the Company expects to treat the |
| 23 |            | RtR customer usage and revenues in the test year COS model in a manner similar to the     |
| 24 |            | treatment of below-the-line (BTL) rate classes. In planning for such future GRAs, the     |
| 25 |            | Company will prepare a forecast of RtR service uptake taking account of information       |
| 26 |            | included in Retail Suppliers' applications for licences and ongoing compliance filings.   |
| 27 |            | The RtR customer usage is expected to be separated in the Exhibit 9 series from the       |
| 28 |            | above-the-line (ATL) classes and reported in the below-the-line category, grouped by      |
| 29 |            | their original ATL classes. Similarly, anticipated revenues, to be recovered from RtR     |
| 20 |            | customers and suppliers are expected to be treated as an offset to the revenue.           |

| 1  |     | requirement from the ATL classes RtR revenue will be cost itemized in the Direct                       |
|----|-----|--|
| 1  |     | Equilement from the ATE classes. Kilk revenue will be cost itemized in the Direct                      |
| 2  |     | Expense category of exhibits 4 and 4A, as is the case with the BTL rate classes, today. In             |
| 3  |     | parallel with the above COS adjustments, the Company will adjust test year billing                     |
| 4  |     | determinants by the bundled service ATL classes in its "Proof of Revenue" calculations.                |
| 5  |     | The Company will also have to adjust its estimates of fuel cost to recognise that the                  |
| 6  |     | Company's generation requirements and thus the average unit fuel cost will need to                     |
| 7  |     | reflect the impacts of energy provided as top-up and received as spill and the potential               |
| 8  |     | spread in the average marginal costs between these.  |
| 9  |     |  |
| 10 |     | Once the CoS model is completed on this basis, it is recognised that it may indicate                   |
| 11 |     | changes in allocated unit costs from those on which the RtR tariff charges are based. In               |
| 12 |     | this case, the RtR charges used for the calculation of BTL cost recovery will be adjusted              |
| 13 |     | on an iterative basis until there is proper reconciliation between the RtR charges and the             |
| 14 |     | corresponding allocated unit costs in the ATL calculation.   |
| 15 |     |  |
| 16 | (b) | The proposed adjustment of actual monthly demands to equivalent winter peak demands                    |
| 17 |     | will ensure accurate recovery of utility costs as allocated on a fair basis, as long as the            |
| 18 |     | ATL customers supplied by LRSs have similar coincident factors <sup>1</sup> to those assumed in        |
| 19 |     | the GRA rate setting process for the bundled service customers.  |
| 20 |     |  |
| 21 |     | With the coincident factors being equal, any differences between the actual and test year              |
| 22 |     | forecast of a number of departed customers and their kWh load make no difference to the                |
| 23 |     | recovery of utility costs, as far as the billing demand aspect is concerned <sup>2</sup> , because the |
|    |     |  |

<sup>&</sup>lt;sup>1</sup> Coincident factors, for the purposes of this discussion, include two types of constructs

a) Ratios between monthly coincident demand and average winter peak demand as used in the Standby Service tariff

b) Ratios between non-coincident and coincident monthly demands of individual customers billed under demand charges implicit in test year rate setting process.

 $<sup>^{2}</sup>$  Another factor that can affect the recovery of utility's costs is the distribution of migrating load by bundled service rate classes which vary in terms of their revenue to cost (R/C) ratios. The utility will under- or over-recover its costs to the extent the migrating load is skewed towards bundled service classes with R/C ratios above or below unity.

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proposed RtR rates, inclusive of the revenues under the RtR Market Transition Tariff, are
 based on fully embedded costs.

4 In order to avoid inequity that could arise due to differences between the coincident 5 factors of RtR customer groups in each class and the ATL averages for the customers in 6 the classes from which they originate, the Company will monitor the coincident factors of 7 RtR customers. If they differ from the ATL class averages, assumed in the test year 8 COSS, and cause a material discrepancy in the recovery of utility's costs, the Company 9 For example, a change to the class monthly will propose mitigating measures. 10 adjustment factors to reflect the coincident factors of RtR customers in each class in 11 contrast to their ATL class average statistics. If the need arises, these changes could be 12 submitted in a rate application.

13

3

Please refer to part (c) for discussion of the more fundamental reasons for the selection of
 the equivalent winter peak demand methodology for this tariff, and the way in which this
 methodology provides proper cost allocation and revenue recovery.

17

18 (c) The level of Standby Service required by each LRS will be determined by its load and by 19 the firm reliable capability of its generation. From a system adequacy perspective, the 20 most critical measures of firm reliable capability and of peak demand are those applicable 21 in the winter months in which the winter peak is likely to occur and when reserve 22 margins are therefore expected to be at their tightest. The CoS model therefore adopts 23 the winter peak (coincident peak) as the appropriate basis for allocating demand-related 24 generation cost among Bundled Service customer classes. Demand-related generation 25 costs will be allocated to the RtR customer group on the same basis.

26

The proposed Standby Service tariff and the proposed RtR Transition Tariff demand charge collectively provide for the allocation of cost to, and recovery of cost from, each LRS on that same basis. This differs from the approach in bundled service tariffs, where

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the charge determinant used as the basis for recovery from members of the class is
 typically different from the basis of cost allocation to the class as a whole.

Within this framework, the appropriate metric of the Standby Service determinant is therefore the excess of the winter peak demand of the LRS's portfolio over the corresponding demand supported by the self-supplied firm dependable capability of its generation. The proposed adjustment of actual monthly demands to equivalent winter peak demands for use as the Monthly Standby Contract Demand, before deducting the self-supplied firm dependable (winter) capability achieves the proper Standby Service recovery from each LRS.

11

12

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- Consideration was given to the alternative of a tariff based on the use of actual monthly peak customer demand of each LRS. There are three reasons why this was not adopted:
- 15 (i) Given accurate forecasts of RtR load in each customer class and RtR 16 generation of each technology, it would theoretically be possible to determine the total standby cost properly allocated to the total RtR market 17 18 load and demand portfolio (i.e. as aggregated across all LRSs). From this, 19 it would be possible to determine an average rate per unit of LRS portfolio 20 customer peak monthly demand for use as a rate. This would however be 21 inequitable between LRSs. It would fail to recognise that different 22 generation technologies have different relationships between installed 23 capacity, energy production, and firm dependable capability. A single 24 demand-based tariff could not reflect these differences between LRSs. An 25 LRS whose generation has a high firm dependable capability relative to its 26 energy generated would share in the costs arising from another LRS's low 27 quantity of firm dependable capability. 28
- 29(ii)The calculation of a monthly demand rate as described above would be30highly dependent on the forecasts of generation and RtR market load and

| 1 |       | demand. The rate thus determined would thus be subject to wide variation  |
|---|-------|---|
| 2 |       | from year to year, particularly during a period of initial market uptake. |
| 3 |       | Standby Service tariff charges by this methodology would be significantly |
| 4 |       | less stable than under the tariff as proposed.                            |
| 5 |       |   |
| 6 | (iii) | NS Power would not have confidence in the accuracy of forecasts during    |
| 7 |       | the initial years of the RtR market.                                      |

## **RENEWABLE TO RETAIL MARKET TRANSITION TARIFF Renewable to Retail**

## PURPOSE

Pursuant to Section 3G(2) of the Electricity Act (Nova Scotia), this Renewable to Retail Market Transition Tariff (RTT) is designed to recover from Licenced Retail Suppliers (LRS) NS Power's embedded fixed costs and deferred costs, recovered through Bundled Service, which are not otherwise recovered through other tariffs applicable to the LRS or its RtR Customers. For certainty, for the purposes of this RTT, NS Power's embedded fixed costs include, but are not limited to, generation related fixed costs (e.g. depreciation, cost of financing including return on common equity, income tax and OM&G). Deferred costs of NS Power are those costs approved by the Nova Scotia Utility and Review Board (Board) for recovery by NS Power from customers at a future date.

All capitalized terms herein shall, unless otherwise defined herein, have the meanings ascribed thereto in the LRS Terms and Conditions.

## APPLICABILITY

- 1. The RTT is applicable to the LRS, and is in addition to (and not in substitution of) any charges owing by the LRS to NS Power under the Open Access Transmission Tariff (OATT), the Standby Service Tariff or the Energy Balancing Service Tariff.
- 2. The RTT employs certain usage determinants and rate components applicable under both the Standby Service Tariff and the Energy Balancing Service Tariff.
- 3. Energy Charges and Demand Charges (both as set out below) under this RTT include provision for mitigation in respect of forecasted NS Power savings enabled by the LRS's supply of electricity to its RtR Customers. The savings credits will be determined annually on the basis of experience and will be applied on a prospective basis.
- 4. The Energy Charge under this RTT includes provision for annual adjustment on a prospective basis to account for the forecasted difference between NS Power's average avoided cost by the LRS's supply of electricity and its average system fuel cost. If the average avoided cost exceeds the average system fuel cost, this adjustment will be a reduction in the Energy Charge; if the average avoided cost is less than the average system fuel cost, this adjustment will be an addition to the Energy Charge.
- 5. An LRS taking service under this RTT shall also take service under the OATT, the Standby Service Tariff, and the Energy Balancing Service Tariff.

## RENEWABLE TO RETAIL MARKET TRANSITION TARIFF Renewable to Retail

## **ENERGY CHARGE**

Energy charge is made up of the following components:

| Energy Charge Components                              | Cents per<br>kWh |
|---|------------------|
| Fixed Cost Adder from Energy Balancing Service Tariff | 3.309            |
| Annually Adjusted Energy Savings Credit               | -                |
| Annual Energy Cost Adjustment                         | -                |
| Total   | 3.309            |

The Energy Charge is applicable to the LRS's monthly displaced energy on NS Power's generation system, defined as the total monthly LRS load, including distribution losses, minus the total monthly LRS top-up quantity as determined under the Energy Balancing Service Tariff for that LRS.

## **DEMAND CHARGE**

Demand Charge is made up of two components:

| Demand Charge Components                  | Dollars per<br>kW |
|---|-------------------|
| Demand Charge from Standby Service Tariff | \$5.370           |
| Annually Adjusted Demand Savings Credit   | \$0.000           |
| Total                                     | \$5.370           |

The Demand Charge is applicable to the LRS's monthly displaced demand on NS Power's system determined as the difference between Winter Peak Firm Demand, in respect of the monthly bill of the LRS, and Monthly Standby Contract Demand, both as determined under the Standby Service Tariff for that LRS. For greater certainty, Winter Peak Firm Demand and Monthly Standby Contract Demand are as set out in the Standby Service Tariff.

## SPECIAL CONDITIONS

(1) Nothing contained in this RTT or any service agreement shall be construed as affecting or in any way limiting the right of NS Power to make application to the Board for a change in any rates, terms and conditions, charges, classification of service, service agreement, rule or regulation, including, without limitation, the rates, charge or terms and conditions contained in this RTT, the Standby Service Tariff or the Energy Balancing Service Tariff. Nova Scotia Power Incorporated Open Access Transmission Tariff – 2014 Schedule

#### SCHEDULE 4: ENERGY IMBALANCE SERVICE

This Schedule 4 is not applicable to Licenced Retail Suppliers.

The Generation Forecasting Service set out in Schedule 4A of the OATT will apply to Licenced Retail Suppliers only and is not applicable to any other Eligible Customer.

Energy Imbalance Service is provided when a difference occurs between the scheduled and the actual delivery of energy to a load located within an Operating Area over a single hour. The Transmission Provider must offer this service when the transmission service is used to serve load within its Operating Area. The Transmission Customer must either purchase this service from the Transmission Provider or make alternative comparable arrangements to satisfy its Energy Imbalance Service obligation. To the extent the Operating Area operator performs this service for the Transmission Provider, charges to the Transmission Customer are to reflect only a pass-through of the costs charged to the Transmission Provider by that Operating Area operator.

For a bilateral schedule of a single load and its single generator, this ancillary service will be applied to the net of the generation and load imbalance. Otherwise, this Ancillary Service will be applied separately to deviations from load schedules and deviations from generation schedules. This ancillary service does not apply to power exported from the Operating Area, which is covered by the Generation Balancing Service of the Standard Generator Interconnection and Operation Agreement.

Energy Imbalance Service does not apply to inadvertent energy imbalances that occur as a result of actions directed by the Operating Area operator to:

- Balance total load and generation for the Operating Area through the use of Automatic Generation Control;
- Maintain interconnected system reliability, through actions such as re-dispatch or curtailment;

EFFECTIVE:

#### Nova Scotia Power Incorporated Open Access Transmission Tariff – 2014 Schedule

- Support interconnected system frequency; or to
- Respond to transmission, generation or load contingencies.

For the purposes of Energy Imbalance Service, peak hours are between 07:00 and 23:00 Atlantic Time, Monday to Friday. All other hours are considered non-peak hours.

Load Energy Imbalance Associated with Point-to-Point or Network Integration Transmission Service:

For each Transmission Customer taking service under Part II or Part III of this Tariff, Energy Imbalance Service will be provided by the Transmission Provider under the following terms and conditions:

A deviation band of +/- 1.5 percent of the scheduled transaction (with a minimum deviation band of +/- 2 MW) will be applied hourly to any net load energy imbalance that occurs as a result of the Transmission Customer's scheduled transaction(s).

Parties should attempt to eliminate energy imbalances within the limits of the deviation band within the billing month in accordance to the following:

- For hourly imbalances that arise during peak hours, such imbalances should be eliminated via deliveries or withdrawals during peak hours; and
- For hourly imbalances that arise during non-peak hours, such imbalances should be eliminated via deliveries or withdrawals during non-peak hours.

Net load energy imbalances within the deviation band that have not been eliminated at the end of the billing month will be subject to the charges set below:

EFFECTIVE:

#### Nova Scotia Power Incorporated Open Access Transmission Tariff – 2014 Schedule

- Energy supplied by the Transmission Provider during peak hours to compensate for a net shortfall in peak hours delivery over the billing month will be charged at the average on-peak system marginal cost for the billing month. Energy supplied by the Transmission Provider during non-peak hours to compensate for a net shortfall in non-peak hours delivery over the billing month will be charged at the average non-peak system marginal cost for the billing month.
- Energy supplied to the Transmission Provider during peak hours as a net excess of the peak hours delivery over the billing month will be purchased by the Transmission Provider at the average on-peak system marginal cost for the billing month. Energy supplied to the Transmission Provider during non-peak hours as a net excess of the non-peak hours delivery over the billing month will be purchased by the Transmission Provider at the average non-peak system marginal cost for the billing month.

Energy imbalances outside of the deviation band are not eligible for elimination and are subject to charges as set forth below:

- Energy supplied by the Transmission Provider to compensate for a net hourly shortfall in delivery will be charged at 110 percent of the hourly system marginal cost in the hour of the deviation.
- Energy supplied to the Transmission Provider in net excess of the hourly delivery will be purchased by the Transmission Provider at 90 percent of the hourly system marginal cost in the hour of the deviation.

#### Generation Energy Imbalance - Dispatchable Generators:

For Dispatchable Generators in the Transmission Provider's Operating Area supplying load in the Transmission Provider's Operating Area, Energy Imbalance Service will be provided by the Transmission Provider under the following terms and conditions:

### EFFECTIVE:
### Nova Scotia Power Incorporated Open Access Transmission Tariff – 2014 Schedule

- Energy supplied by the Transmission Provider to compensate for a net shortfall in the hourly delivery will be charged at 110 percent of the hourly system marginal cost in the hour of the deviation.
- Energy supplied to the Transmission Provider in net excess of the hourly delivery will be purchased by the Transmission Provider at 90 percent of the hourly system marginal cost in the hour of the deviation.

### Generation Energy Imbalance - Non-Dispatchable Generators

For Non-dispatchable Generators in the Transmission Provider's Operating Area supplying load in the Transmission Provider's Operating Area, Energy Imbalance Service will be provided by the Transmission Provider under the following terms and conditions:

Energy Imbalances inside a deviation band of +/-10 percent of the scheduled transaction (with a minimum deviation band of +/-2 MW) will be subject to charges as set forth below:

- Energy supplied by the Transmission Provider to compensate for a net shortfall in the hourly delivery will be charged at the hourly system marginal cost in the hour of the deviation.
- Energy supplied to the Transmission Provider in net excess of the hourly delivery will be purchased by the Transmission Provider at the hourly system marginal cost in the hour of the deviation.

All deviations from schedule outside of the +/- 10 percent deviation band will be subject to charges as set forth below:

### EFFECTIVE:

### Nova Scotia Power Incorporated Open Access Transmission Tariff – 2014 Schedule

- Energy supplied by the Transmission Provider to compensate for a net shortfall in the hourly delivery will be charged at 110 percent of the hourly system marginal cost in the hour of the deviation.
- Energy supplied to the Transmission Provider in net excess of the hourly delivery will be purchased by the Transmission Provider at 90 percent of the hourly system marginal cost in the hour of the deviation.

## SCHEDULE 4A: GENERATION FORECASTING SERVICE

This Generation Forecasting Service set out in Schedule 4A of the OATT applies to Licenced Retail Suppliers only and is not applicable to any other Eligible Customer. Generation Forecasting Service addresses the accuracy of generation scheduling by Licenced Retail Suppliers.

This Schedule does not apply to forecasting discrepancies that occur as a result of actions directed by the Operating Area operator to:

- Balance total load and generation for the Operating Area through the use of Automatic Generation Control;
- Maintain interconnected system reliability, through actions such as re-dispatch or curtailment;
- Support interconnected system frequency; or to
- Respond to transmission, generation or load contingencies.

For the purposes of Forecast Deviation Service, peak hours are between 07:00 and 23:00 Atlantic Time, Monday to Friday. All other hours are considered non-peak hours.

Each Licenced Retail Supplier shall use commercially reasonable efforts to provide accurate schedules and forecasts of production from renewable low-impact generators that are not dispatchable.

To the extent that such schedules or forecasts of hourly production of the aggregate of a Licenced Retail Supplier's RtR generation resources deviate from the actual production for reasons other than those that occur as a result of actions directed by the Operating Area operator the following charges shall apply:

An hourly deviation band of +/-10 percent of the aggregate hourly scheduled or forecast quantity (with a minimum deviation band of +/-2 MW) will be applied hourly to any forecast discrepancy that occurs as a result of the Transmission Customer's scheduled transaction(s).

- Hourly forecast discrepancies falling outside the hourly deviation band during peak hours will be charged at 10% of the average on-peak system marginal cost for the billing month.
- Hourly forecast discrepancies falling outside the hourly deviation band during non-peak hours will be charged at 10% of the average non-peak system marginal cost for the billing month.

| 1  | Requ                 | est DR-33:   |  |  |  |  |  |
|----|----------------------|--|--|--|--|--|--|
| 2  |                      |  |  |  |  |  |  |
| 3  | Refer                | ence: Energy Balancing Service (EBS), Standby Service (SS) and Generation                  |  |  |  |  |  |
| 4  | Forec                | asting Service (GFS) Proposals   |  |  |  |  |  |
| 5  |                      |  |  |  |  |  |  |
| 6  | Please               | e provide the rationale for the creation of a new Schedule 4A in OATT to                   |  |  |  |  |  |
| 7  | accommodate the GFS. |  |  |  |  |  |  |
| 8  |                      |  |  |  |  |  |  |
| 9  | Response DR-33:      |  |  |  |  |  |  |
| 10 |                      |  |  |  |  |  |  |
| 11 | The c                | urrent wholesale market approach to imbalance between supply and demand includes two       |  |  |  |  |  |
| 12 | eleme                | nts:   |  |  |  |  |  |
| 13 |                      |  |  |  |  |  |  |
| 14 | 1.                   | scheduled hourly energy balancing service requirements, which are addressed by the         |  |  |  |  |  |
| 15 |                      | existing Backup/Top-up/Spill (BUTUS) tariff; and   |  |  |  |  |  |
| 16 |                      |  |  |  |  |  |  |
| 17 | 2.                   | deviations of the actual hourly quantities from the scheduled hourly quantities, which are |  |  |  |  |  |
| 18 |                      | addressed by Schedule 4 of the OATT.   |  |  |  |  |  |
| 19 |                      |  |  |  |  |  |  |
| 20 | This t               | wo-part approach was not considered suitable for the RtR market for the following reasons: |  |  |  |  |  |
| 21 |                      |  |  |  |  |  |  |
| 22 | (a)                  | The expected diversity of RtR load over multiple delivery points from the transmission     |  |  |  |  |  |
| 23 |                      | system would make hourly load forecasting too onerous. It would also have questionable     |  |  |  |  |  |
| 24 |                      | value in that it would not alter total loads at each delivery point.                       |  |  |  |  |  |
| 25 |                      |  |  |  |  |  |  |
| 26 | (b)                  | The asymmetric nature of the top-up charge and spill credit under the proposed EBS         |  |  |  |  |  |
| 27 |                      | tariff, with the top-up charges including energy-related fixed cost recovery, would yield  |  |  |  |  |  |
| 28 |                      | a material incentive for an LRS to under-forecast its load at times of expected top-up.    |  |  |  |  |  |
| 29 |                      | Such under-forecasting would lead to LRS avoidance of the energy-related fixed cost        |  |  |  |  |  |
| 30 |                      | recovery and could adversely affect the NSPSO's system management and optimization.        |  |  |  |  |  |

| 1  |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 2  | (c)  | Settlement under the two-part approach would be significantly more complex than under      |  |  |  |  |
| 3  |  | the proposed RtR market approach.  |  |  |  |  |
| 4  |  |  |  |  |  |  |
| 5  | Having determined that the Energy Balancing Service tariff should provide for settlement against |  |  |  |  |  |
| 6  | actual metered imbalances only, NS Power had to give consideration to the implications with      |  |  |  |  |  |
| 7  | respect to the OATT Schedule 4. The application of Schedule 4 as it stands would result in       |  |  |  |  |  |
| 8  | overla   | apping settlement for the marginal energy cost of imbalances which would not be            |  |  |  |  |
| 9  | appro  | priate.  |  |  |  |  |
| 10 |  |  |  |  |  |  |
| 11 | Accur  | rate forecasting is important to the NSPSO in the management of the system. Whereas the    |  |  |  |  |
| 12 | load f   | orecasting element has limited value, as noted above, due to the embedding of RtR loads at |  |  |  |  |
| 13 | delive   | bry points, the generation forecasting element remains important. Schedule 4A is designed  |  |  |  |  |
| 14 | to pro   | ovide the forecasting incentive element of existing schedule 4, as applicable to the       |  |  |  |  |

15 production from non-dispatchable RtR generation.

| 1  | Request IR-9:   |  |  |  |  |  |
|----|---|--|--|--|--|--|
| 2  |   |  |  |  |  |  |
| 3  | The "Illustrative Unit Revenues by RtR tariff" presented in Figure 7 is reflective of a         |  |  |  |  |  |
| 4  | specific scenario. In an effort to understand how sensitive these resulting rates are to        |  |  |  |  |  |
| 5  | fluctuations in energy balancing scenarios, please provide revised figures that assume          |  |  |  |  |  |
| 6  | sensitivity scenarios that change top up and spill assumptions by 20%.                          |  |  |  |  |  |
| 7  |   |  |  |  |  |  |
| 8  | Response IR-9:  |  |  |  |  |  |
| 9  |   |  |  |  |  |  |
| 10 | The table below provides six scenarios of a breakdown of RtR rates by ratios of top-up and tota |  |  |  |  |  |
| 11 | LRS energies in increments of 20% for the Domestic, General and Large Industrial (Firm) Rate    |  |  |  |  |  |
| 12 | classes under the following assumptions:  |  |  |  |  |  |
| 13 |   |  |  |  |  |  |
| 14 | (i) the LRS's customers are all from a single rate class;                                       |  |  |  |  |  |
| 15 | (ii) the customers have the same load profile characteristics as the NS Power class average     |  |  |  |  |  |
| 16 | and   |  |  |  |  |  |
| 17 | (iii) there is no excess annual spill.  |  |  |  |  |  |
| 18 |   |  |  |  |  |  |
| 19 | Any changes in class blended unit revenue, due to changes in the amount of delivered top-up     |  |  |  |  |  |
| 20 | energy, are caused only by the difference between the Energy Credit (5.27 cents/kWh) under      |  |  |  |  |  |
| 21 | spill and the fuel portion of the Energy Charge (6.65 cents/kWh) under top-up. Any changes in   |  |  |  |  |  |
| 22 | the recovery of fixed costs through the Fixed Cost Adder (3.309 cents/kWh) to the Energy        |  |  |  |  |  |
| 23 | Charge of the EBS tariff are automatically offset by parallel changes in the opposite direction |  |  |  |  |  |
| 24 | under the RTT.  |  |  |  |  |  |

| Unit revenues in cents per KWh at the point of delivery to customer's premise |     |      |     |     |            |       |  |  |  |  |  |
|---|-----|------|-----|-----|------------|-------|--|--|--|--|--|
|   | лт  |      | ERG | 22  | ртт        | Total |  |  |  |  |  |
| 0% Top-up 0% Spill  | 10  | 1.6  | 0.0 | 12  | 4.0        | 10tai |  |  |  |  |  |
| 20% Top-up 20% Spill  | 4.0 | 1.0  | 1.0 | 1.2 | 2.2        | 10.3  |  |  |  |  |  |
| 20% 10p-up 20% Spill  |     | 1.0  | 2.0 | 1.2 | 2.5        | 11.2  |  |  |  |  |  |
|   |     | 1.0  | 2.0 | 1.2 | 2.0        | 11.5  |  |  |  |  |  |
| 60% Top-up 60% Spill  |     | 1.0  | 3.0 | 1.2 | 1.9        | 11.8  |  |  |  |  |  |
|   | 4.0 | 1.0  | 4.0 | 1.2 | 1.2        | 12.1  |  |  |  |  |  |
| 100% Top-up 100% Spill  | 4.0 | 1.6  | 5.0 | 1.2 | 0.5        | 12.4  |  |  |  |  |  |
| GENERAL RATE CLASS  |     | OATT | EBS | SS  | RTT        | Total |  |  |  |  |  |
| 0% Top-up 0% Spill  | 1.5 | 1.5  | 0.0 | 0.7 | 3.9        | 7.6   |  |  |  |  |  |
| 20% Top-up 20% Spill  | 1.5 | 1.5  | 1.0 | 0.7 | 3.2        | 7.9   |  |  |  |  |  |
| 40% Top-up 40% Spill  | 1.5 | 1.5  | 1.9 | 0.7 | 2.6        | 8.2   |  |  |  |  |  |
| 60% Top-up 60% Spill  |     | 1.5  | 2.9 | 0.7 | 1.9        | 8.5   |  |  |  |  |  |
| 80% Top-up 80% Spill  |     | 1.5  | 3.9 | 0.7 | 1.2        | 8.7   |  |  |  |  |  |
| 100% Top-up 100% Spill  | 1.5 | 1.5  | 4.8 | 0.7 | 0.5        | 9.0   |  |  |  |  |  |
|   |     |      |     |     |            |       |  |  |  |  |  |
|   |     | OATT | ЕРС | 66  | ртт        | Total |  |  |  |  |  |
|   |     | UATT | EDS | 33  | <b>KII</b> |       |  |  |  |  |  |
|   | 0.6 | 1.1  | 0.0 | 0.3 | 3.9        | 5.9   |  |  |  |  |  |
| 20% Top-up 20% Spill  | 0.6 | 1.1  | 1.0 | 0.3 | 3.2        | 6.2   |  |  |  |  |  |
| 40% Top-up 40% Spill  |     | 1.1  | 1.9 | 0.3 | 2.5        | 6.5   |  |  |  |  |  |
| 60% Top-up 60% Spill  |     | 1.1  | 2.9 | 0.3 | 1.9        | 6.8   |  |  |  |  |  |
| 80% Top-up 80% Spill  |     | 1.1  | 3.8 | 0.3 | 1.2        | 7.0   |  |  |  |  |  |
| 100% Top-up 100% Spill  | 0.6 | 1.1  | 4.8 | 0.3 | 0.5        | 7.3   |  |  |  |  |  |

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