

1 **Q. (Reference CA-NP-098)**

- 2 **a) Did the Retail Rate Review conducted in 2010 include a review of the suitability**  
3 **of rate classes?**
- 4 **b) Was the Retail Rate Review conducted in 2010 undertaken in-house, or did**  
5 **Newfoundland Power employ an external consultant to complete the review?**
- 6 **c) How long did it take to complete the Retail Rate Review conducted in 2010 and**  
7 **how much did it cost?**
- 8 **d) Please define primary, secondary and transmission voltage supply levels.**
- 9 **e) In Attachment A to CA-NP-030 (from the 2024 CBA) there are three Rate 2.4**  
10 **customers served at the 66 kV voltage level. Is this still the case? Please provide**  
11 **an updated version of Attachment A to CA-NP-030 (from the 2024 CBA).**

- 12
- 13 A. a) Newfoundland Power conducted an evaluation of its existing rate designs and a  
14 review of alternative rate designs to determine their appropriateness for use in serving  
15 its customers (the “Retail Rate Review”). Newfoundland Power filed a report with the  
16 Board on January 28, 2009, providing the results of the evaluation process (the “Rate  
17 Design Report”). The Rate Design Review recommended changes to Newfoundland  
18 Power’s customer rate classes which were approved in a subsequent Board Order.<sup>1</sup>
- 19
- 20 b) The Retail Rate Review was completed by Newfoundland Power with assistance  
21 from external consultants where required. This included a Newfoundland Power  
22 marginal cost study prepared by NERA Economic Consulting, a utility rates survey  
23 prepared by Brockman Consulting, and customer engagement activities provided by  
24 Ryan Research and Communications.
- 25
- 26 c) The Retail Rate Review started in 2007 upon the conclusion of Newfoundland  
27 Power’s *2008 General Rate Application*.<sup>2</sup> The ongoing nature of the Retail Rate  
28 Review was recognized as part of Newfoundland Power’s *2010 General Rate*  
29 *Application*.<sup>3</sup> Recommendations from the Retail Rate Review were first implemented  
30 as part of Newfoundland Power’s *2013/2014 General Rate Application* which  
31 concluded in April 2013.<sup>4</sup>

32

33 The Retail Rate Review was undertaken in consultation with the Consumer Advocate,  
34 Hydro and the Board. The Retail Rate Review Framework filed with the Board in  
35 2007 did not include a specific cost estimate for the Retail Rate Review.<sup>5</sup>  
36 Newfoundland Power does not have a comprehensive breakdown of costs related to  
37 the Retail Rate Review over the 2007-2013 period. Newfoundland Power is recording

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<sup>1</sup> In Order No. P.U. 13 (2013) the Board approve a recommendation of the 2010 Rate Design Review to merge General Service Rate #2.1 and General Service Rate #2.2 into a single General Service Rate for all customers with demand of less than 100kW. See Order No. P.U. 13 (2013), page 10, line 5 to page 11, line 4.

<sup>2</sup> In Order No. P.U. 32 (2007) relating to Newfoundland Power’s *2008 General Rate Application* the Board accepted a settlement proposal that the parties would undertake a Retail Rate Review to evaluate the design of Newfoundland Power’s rates.

<sup>3</sup> See Order No. P.U. 43 (2009), Reasons for Decision, page 10, lines 24-37.

<sup>4</sup> See Order No. P.U. 13 (2013), page 10, line 5 to page 11, line 4.

<sup>5</sup> The framework for the Rate Design Review was agreed to as part of the Settlement Agreement of Newfoundland Power’s *2008 General Rate Application*. See Order No. P.U. 32 (2007), page 51.

- 1 its costs related to the current rate design review in a deferral account approved by the  
2 Board.<sup>6</sup>  
3
- 4 d) Newfoundland Power’s three-phase primary distribution voltage levels are 4 kV to 25  
5 kV.<sup>7</sup>  
6
- 7 Secondary distribution levels are normally defined as follows:  
8  
9 Single-phase, 3 wire, 120/240 volts;  
10 Three-phase, 4 wire, 120/208 volts wye;  
11 Three-phase, 4 wire, 347/600 volts.<sup>8</sup>  
12
- 13 The Company’s transmission voltage supply levels are 33 kV to 138 kV.  
14
- 15 e) There are currently two Rate 2.4 customers served at the 66-kV voltage level.<sup>9</sup>  
16  
17 Attachment A provides updated aggregate information regarding the substation,  
18 transmission and distribution equipment serving Newfoundland Power’s General  
19 Service Rate #2.4 customers, as requested.<sup>10</sup>

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<sup>6</sup> See Order No. P.U. 3 (2022) Amended No. 2, Schedule C: Load Research and Rate Design Cost Deferral Account.

<sup>7</sup> Corresponding single-phase line-to-neutral voltages would also be classified as primary distribution.

<sup>8</sup> Secondary services at other supply voltages may be provided in special cases at the discretion of the Company.

<sup>9</sup> Memorial University receives service from Newfoundland Power at 12.5 kV at the Memorial (“MUN”) Substation. For further information, see the response to Request for Information CA-NP-266.

<sup>10</sup> General service customers may move between rate classes each month, depending on whether their largest billing demand in the past 12 months is greater than 1000 kVA.

**Electricity Supply to General Service Rate #2.4 Customers**

Newfoundland Power Inc.  
Electricity Supply to General Service Rate #2.4 Customers

| Supplying Substation <sup>1</sup> | Supplying Feeder or Transmission Line |             |              | Feeder Planning Capacity (MVA) | Supplying Transformer | Transformer Capacity (MVA) <sup>2</sup> | Customers Served by Substation |
|-----------------------------------|---------------------------------------|-------------|--------------|--------------------------------|-----------------------|---|--------------------------------|
|                                   | Feeder Code                           | Designation | Voltage (kV) |                                |                       |   |                                |
| APT                               | 01                                    | APT-01      | 12.5         | 12.7                           | APT-T1                | 25                                      | 2,051                          |
| BIG                               | 01                                    | BIG-01      | 12.5         | 7.7                            | BIG-T1                | 11.1                                    | 1,334                          |
| BVA                               | 01                                    | BVA-01      | 12.5         | 7.7                            | BVA-T1                | 25                                      | 2,594                          |
| BVS                               | 03                                    | BVS-03      | 12.5         | 10                             | BVS-T1/T2             | 20 + 15                                 | 3,908                          |
| CAR                               | 01                                    | CAR-01      | 12.5         | 7.7                            | CAR-T1                | 25                                      | 2,906                          |
| CLK                               | 04                                    | CLK-04      | 12.5         | 12.7                           | CLK-T1/T2             | 10 + 10                                 | 1,220                          |
| CLV                               | 02                                    | CLV-02      | 12.5         | 7.7                            | CLV-T2/T3             | 20 + 25                                 | 2,760                          |
| COB                               | 01                                    | COB-01      | 12.5         | 12.7                           | COB-T1/T3             | 20 + 25                                 | 4,351                          |
| GAN                               | 01                                    | GAN-01      | 12.5         | 12.7                           | GAN-T1                | 20                                      | 1,697                          |
| GFS                               | 10                                    | GFS-10      | 25           | 25.5                           | GFS-T2/T3             | 20 + 50                                 | 8,123                          |
| GOU                               | 02                                    | GOU-02      | 12.5         | 12.7                           | GOU-T2/T3             | 20 + 13.3                               | 4,486                          |
| GRH                               | 02                                    | GRH-02      | 12.5         | 7.7                            | GRH-T2                | 20                                      | 2,290                          |
| HBS                               | 02                                    | HBS-02      | 25           | 5                              | HBS-T1                | 5                                       | 836                            |
| HUM                               | 09                                    | HUM-09      | 12.5         | 12.7                           | HUM-T3                | 25                                      | 1,683                          |
| HWD                               | 02                                    | HWD-02      | 12.5         | 12.7                           | HWD-T1/T2             | 20 + 20                                 | 10,791                         |
| KBR                               | 09                                    | KBR-09      | 12.5         | 7.7                            | KBR-T3/T4             | 25 + 25                                 | 5,745                          |
| KBR                               | 11                                    | KBR-11      | 12.5         | 7.7                            | KBR-T3/T4             | 25 + 25                                 | 5,745                          |
| KBR                               | 12                                    | KBR-12      | 12.5         | 7.7                            | KBR-T3/T4             | 25 + 25                                 | 5,745                          |
| KBR                               | 13                                    | KBR-13      | 12.5         | 10                             | KBR-T3/T4             | 25 + 25                                 | 5,745                          |
| KEL                               | 03                                    | KEL-03      | 12.5         | 12.7                           | KEL-T1                | 25                                      | 4,020                          |
| KEN                               | 05                                    | KEN-05      | 25           | 25.5                           | KEN-T1/T2             | 25 + 50                                 | 7,416                          |
| LCV <sup>4</sup>                  | N/A                                   | 410L        | 66           | N/A                            | N/A                   | N/A                                     | 1                              |
| LET                               | 01                                    | LET-01      | 25           | 15.4                           | LET-T1                | 16.7                                    | 1,853                          |
| LEW                               | 02                                    | LEW-02      | 25           | 15.4                           | LEW-T1                | 25                                      | 4,464                          |
| LLK                               | 02                                    | LLK-02      | 12.5         | 8.9                            | LLK-T1                | 20                                      | 655                            |
| MIL                               | 02                                    | MIL-02      | 25           | 15.4                           | MIL-T1                | 16.7                                    | 2,757                          |
| MMT                               | 01                                    | MMT-01      | 12.5         | 6.7                            | MMT-T1                | 6.7                                     | 621                            |
| MOB                               | 01                                    | MOB-01      | 12.5         | 12.7                           | MOB-T2                | 16.7                                    | 2,597                          |
| MOL                               | 02                                    | MOL-02      | 12.5         | 12.7                           | MOL-T1/T2             | 25 + 25                                 | 9,015                          |
| MUN/LPD <sup>3</sup>              | N/A                                   | 12L/14L/36L | 66           | N/A                            | MUN-T1/T2<br>LPD-T1   | 14.8 + 20<br>25                         | 1                              |
| OPL                               | 01                                    | OPL-01      | 12.5         | 12.7                           | OPL-T1                | 15                                      | 1,764                          |
| OPL                               | 03                                    | OPL-03      | 12.5         | 7.7                            | OPL-T1                | 15                                      | 1,764                          |
| OSP                               | 01                                    | OSP-01      | 12.5         | 12.7                           | OSP-T1                | 13.3                                    | 1,283                          |
| PEP                               | 05                                    | PEP-05      | 12.5         | 12.7                           | PEP-T1/T2             | 25 + 25                                 | 3,398                          |
| RFD                               | N/A                                   | 104L        | 66           | N/A                            | N/A                   | N/A                                     | 1                              |
| RRD                               | 05                                    | RRD-05      | 12.5         | 7.7                            | RRD-T2/T3             | 20 + 20                                 | 4,407                          |
| RRD                               | 08                                    | RRD-08      | 12.5         | 7.7                            | RRD-T2/T3             | 20 + 20                                 | 4,407                          |
| SJM                               | 03                                    | SJM-03      | 12.5         | 5.7                            | SJM-T1/T2             | 25 + 25                                 | 6,177                          |
| SJM                               | 06                                    | SJM-06      | 12.5         | 11.6                           | SJM-T1/T2             | 25 + 25                                 | 6,177                          |
| SJM                               | 09                                    | SJM-09      | 12.5         | 5.7                            | SJM-T1/T2             | 25 + 25                                 | 6,177                          |
| SJM                               | 10                                    | SJM-10      | 12.5         | 9.9                            | SJM-T3                | 25                                      | 6,177                          |
| SJM                               | 14                                    | SJM-14      | 12.5         | 5.7                            | SJM-T3                | 25                                      | 6,177                          |
| SLA                               | 08                                    | SLA-08      | 12.5         | 7.7                            | SLA-T3                | 25                                      | 9,353                          |
| SLA                               | 11                                    | SLA-11      | 12.5         | 9.2                            | SLA-T4                | 25                                      | 9,353                          |
| SUM                               | 02                                    | SUM-02      | 25           | 10                             | SUM-T1                | 10                                      | 2,421                          |
| SUN                               | 01                                    | SUN-01      | 25           | 25                             | SUN-T5                | 25                                      | 1,507                          |
| VIR                               | 01                                    | VIR-01      | 12.5         | 12.7                           | VIR-T1/T2             | 25 + 25                                 | 6,800                          |
| VIR                               | 06                                    | VIR-06      | 12.5         | 12.7                           | VIR-T1/T2             | 25 + 25                                 | 6,800                          |
| WAL                               | 02                                    | WAL-02      | 12.5         | 12.7                           | WAL-T1                | 20                                      | 6,899                          |
| WAL                               | 06                                    | WAL-06      | 12.5         | 12.7                           | WAL-T2                | 25                                      | 6,899                          |
| WAL                               | 07                                    | WAL-07      | 12.5         | 12.7                           | WAL-T2                | 25                                      | 6,899                          |
| WES                               | 03                                    | WES-03      | 12.5         | 7.7                            | WES-T1                | 13.3                                    | 1,692                          |

Notes:

- As of February 29, 2024 Newfoundland Power had 62 General Service Rate #2.4 customers which were supplied by 54 of Newfoundland Power's distribution feeders or transmission lines.
- For substations with two transformers, none maintain fully redundant transformer capacity in the event of a transformer failure.
- Memorial University receives service from 66 kV to 12.5 kV power transformers located at MUN and LPD Substations. In addition to serving Memorial University, MUN Substation forms part of the integrated 66 kV transmission system serving the St. John's area. Transmission line 36L and the LPD Substation, including the 25 MVA substation transformer, were fully contributed on behalf of the customer as they were considered a special facility in accordance with Newfoundland Power's *Schedule of Rates, Rules and Regulations*. See Order No. P.U. 5 (2019).
- LCV is a customer owned substation.