

- 1 **Q. (Reference CA-NP-030, Attachment A and CA-NP-049)**  
 2 **a) Footnote 3 states "Memorial University receives service from 66 kV to 12.5**  
 3 **kV power transformers located at MUN Substation. In addition to serving**  
 4 **Memorial University, MUN Substation forms part of the integrated 66 kV**  
 5 **transmission system serving St. John's Region." Do the MUN T-1 and MUN**  
 6 **T-2 power transformers also form part of the integrated 66 kV transmission**  
 7 **system serving St. John's region?**  
 8 **b) Do LPD, RFD and LCV Substations and transmission lines 36L, 104L and**  
 9 **410L form part of the integrated transmission system?**  
 10 **c) Where is the metering point located for the three Rate #2.4 customers**  
 11 **served from the 66 kV transmission system?**  
 12 **d) Where is the metering point typically located for other Rate #2.4**  
 13 **customers?**  
 14 **e) Is the metering data for Memorial University summed for the LPD and MUN**  
 15 **supply points or does Memorial University receive two separate billing**  
 16 **invoices?**

17  
 18 **A. a) No, the 66 kV to 12.5 kV MUN-T1 and MUN-T2 power transformers are not part of**  
 19 **the integrated 66 kV transmission system serving St. John's Region. They are used**  
 20 **to supply Memorial University.**

21  
 22 **b) The LPD Substation and Transmission Line 36L are connected to Newfoundland**  
 23 **Power's 66 kV transmission system in St. John's Region. For the purpose of cost**  
 24 **allocation, Transmission Line 36L and the LPD Substation are considered radial**  
 25 **transmission facilities.<sup>1</sup> Costs associated with constructing and maintaining the LPD**  
 26 **Substation and Transmission Line 36L were fully funded by the customer served by**  
 27 **those assets.<sup>2</sup>**

28  
 29 The RFD Substation and Transmission Line 104L are connected to Newfoundland  
 30 Power's 66 kV transmission system in Central Newfoundland. For the purpose of  
 31 cost allocation, Transmission Line 104L and the RFD Substation are considered radial  
 32 transmission facilities. The customer served by RFD Substation and Transmission  
 33 Line 104L was required to pay a Contribution in Aid of Construction towards the  
 34 construction of those assets.<sup>3</sup>

35  
 36 The LCV Substation is customer owned. Transmission Line 410L is part of  
 37 Newfoundland Power's 66 kV transmission system in Western Newfoundland. It  
 38 provides service to a customer served by the LCV Substation as well as customers  
 39 served by the Abrahams Cove ("ABC") Substation. A section of Transmission Line  
 40 410L directly serves a General Service Rate #2.4 customer. For the purpose of cost  
 41 allocation, the section of Transmission Line 410L serving a single customer is  
 42 considered a radial transmission facility. The customer served by that section of

<sup>1</sup> The National Association of Regulatory Utility Commissioners ("NARUC") defines radial transmission facilities as "those that are not networked with other transmission lines but are used to serve specific loads directly." See NARUC *Electric Utility Cost Allocation Manual*, page 74.

<sup>2</sup> See Order No. P.U. 5 (2019).

<sup>3</sup> See Order No. P.U. 9 (1996-1997).

- 1 Transmission Line 410L was required to pay a Contribution in Aid of Construction  
2 towards the construction of that section of Transmission Line 410L.<sup>4</sup>  
3
- 4 c) There are two customers served by the 66 kV transmission system. They are the  
5 two General Service Rate #2.4 customers served by transmission lines 104L and  
6 410L. The customer served by Transmission Line 410L is metered at the end of the  
7 transmission line where the customer receives service. The customer served by  
8 Transmission Line 104L is metered at the end of the transmission line where the  
9 customer receives service.  
10
- 11 d) Newfoundland Power's General Service Rate #2.4 1000 kVA and Over customer rate  
12 class includes approximately 60 of Newfoundland Power's largest customers. The  
13 metering point and metering costs for these customers depends on the nature of the  
14 customer's service. For example, customers in General Service Rate #2.4 1000 kVA  
15 and Over rate class can be metered by secondary, primary, or transmission voltages.  
16 Additionally, General Service Rate #2.4 customers carry a variety of loads that have  
17 their own unique connection requirements. For example, a General Service Rate  
18 #2.4 customer that operates a mine or large construction project may have different  
19 metering and connection requirements than a General Service Rate #2.4 customer  
20 that operates a large commercial building or hotel.  
21
- 22 e) Yes, the metering for Memorial University is summed for the LPD and MUN supply  
23 points. For the St. John's campus, the customer pays for the total monthly energy  
24 consumption and the coincident peak demand recorded at the MUN and LPD  
25 substations.

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<sup>4</sup> A Contribution in Aid of Construction for the section of Transmission Line 410L serving the General Service Rate #2.4 customer was required in 1988 when that section of the transmission line was to be constructed.