

Q. **Reference: Application, Volume I, 2027 Test Year Cost of Service Study Schedule F4.2 System Load Factor**

a) Please provide a detailed calculation of the Coincident Peak at Generation (kW) showing contribution by class, including which load and/or coincident factors were applied and where these are derived, and any adjustments made to the coincident peak (e.g., for generation credits, or capacity assistance credits).

A. The coincident peak at generation used in the 2027 Cost of Service Study, Schedule F 4.2 of Newfoundland and Labrador Hydro's 2026 General Rate Application is 1,683,676 kW.

The contribution by class is summarized in Table 1.

Table 1: Contribution by Customer Class (kW)

	Coincident Peak at Generation
Newfoundland Power ¹	1,498,497
Island Industrial Customers	81,911
Hydro Rural – Island Interconnected	103,269
Total Coincident Peak at Generation	1,683,676

¹ Newfoundland Power Inc. ("Newfoundland Power").

1 ***Newfoundland Power***

2 Newfoundland Power coincident peak at generation (1,498,497 kW) is detailed in Table 2.

Table 2: Newfoundland Power Coincident Peak at Generation²

Step	Description	Amount	Treatment
1	Forecast Native Peak	1,520,300 KW	Newfoundland Power forecast native peak before adjustments
2	Less: Curtailable Load	(12,000 kW)	Existing 12 MW Newfoundland Power Capacity Assistance Program
3	Adjusted Native Peak	1,508,300 KW	Step 1 + Step 2
4	Coincidence Factor	0.9944	Newfoundland Power forecast coincidence factor
5	Adjusted Coincident Native Load	1,499,869 kW	Step 3 x Step 4
6	Less: Hydraulic Generation Credit	(64,000 kW)	Applied at transmission
7	Coincident Peak at Transmission	1,435,869 kW	Step 5 + Step 6
8	Transmission Demand-Loss Multiplier	1.0436	Island Interconnected transmission-level demand-loss multiplier
9	Peak at Generation Before Thermal Credit	1,498,497 kW	Step 7 x Step 8

3 ***Island Industrial Customers***

4 Island Industrial Customers coincident peak at generation (81,911 kW) is detailed in Table 3.

Table 3: Island Industrial Customers Coincident Peak at Generation³

Step	Description	Amount	Treatment
1	Forecast Non-Coincident Peak	91,300 KW	Industrial forecast peak
2	Coincidence Peak	0.8596	Industrial forecast coincidence factor
3	Industrial Coincident Peak at Meter	78,487 kW	Step 1 x Step 2
4	Transmission Demand-Loss Multiplier	1.0436	Island Interconnected transmission-level demand-loss multiplier
5	Industrial Coincident Peak at Generation	81,911 kW	Step 3 x Step 4

² Numbers may not add due to rounding.

³ Numbers may not add due to rounding.

Hydro Rural – Island Interconnected:

Hydro Rural – Island Interconnected coincident peak at generation (103,269 kW) is detailed in Table 4.

Table 4: Hydro Rural – Island Interconnected Coincident Peak at Generation⁴

Step	Description	Amount	Treatment
1	Load Served at Secondary	77,803 KW	
2	Secondary Loss Multiplier	1.1303	
3	Input to Secondary	87,943 KW	Step 1 x Step 2
4	Load Served at Primary	3,709 KW	
5	Load Through Primary	91,651 KW	Step 3 + Step 4
6	Primary Loss Multiplier	1.0797	Primary distribution loss multiplier
7	Input to Primary	98,953 KW	Step 5 x Step 6
8	Transmission Loss Multiplier	1.0436	Island Interconnected transmission-level demand-loss multiplier
9	Input to Transmission	103,269 KW	Step 7 x Step 8

⁴ Numbers may not add due to rounding.