

1 Q. **Reference: Volume I, Schedule A-I; Section 6.2, page 6.3**

2 With respect to the 2027 Test Year peak demand of 1,683.7 MW on the Island Interconnected
3 system:

4 a) Provide the derivation of the forecast system peak, including class non-coincident peaks,
5 the coincidence factors applied, and station service and losses at peak; and

6 b) State whether the peak used in the Cost of Service is a P50 or other percentile value.

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9 A. a) Please refer to Table 1 for the derivation of the forecast system peak.

Table 1: Forecast System Peak

	Non-Coincident Peak (MW)	Coincident Factor (%)	Coincident Peak (MW)
Newfoundland Power	1,450.3	99.4	1,441.8 ¹
Island Industrial	91.3	86.0	78.5
Hydro Rural	94.9	98.0	93.0
Total Deliveries			1,613.3
Transmission Losses ²			70.4
System Electricity Requirement			1,683.7

10 b) The peak used in the Cost of Service is a P50 forecast.

¹ Newfoundland and Labrador Hydro ("Hydro") calculates Newfoundland Power Inc's ("Newfoundland Power") Coincident Peak using the following methodology: Newfoundland Power's Native Peak (1,520.33 MW) * Coincident Factor (99.44%) = 1,511.8 MW less the assumed Newfoundland Generation at peak (70 MW) = 1,441.8 MW.

² MWs for total deliveries and transmission losses are coincident with the system peak. MW transmission losses include Hydro's station services.