Q. **Reference: *Engineering Support Services for: Avalon Capacity Study*, TransGrid Solutions, May 23, 2019, Section 1.1 – Conclusions.**

Please provide (i) the capacity limit of the 230 kV transmission corridor between Bay d'Espoir and Soldiers Pond under normal operation of Hydro's transmission planning criteria, and (ii) the equivalent amount of load served by the 230 kV transmission corridor between Bay d'Espoir and Soldiers Pond at this capacity limit.

A. If normal transmission planning criteria were applied in the event of a Labrador-Island Link bipole outage, the capacity limit of the 230 kV transmission corridor between Bay d'Espoir and Soldiers Pond would be as per Table 4-3 in the study report. Under this scenario, maximum power flow eastward from Bay d'Espoir would be limited to approximately 673 MW. This limiting condition is due to transient undervoltages in the event of a three-phase fault at Sunnyside Terminal Station and reflects the most onerous restriction on the transmission system in this case.[1]

The equivalent amount of load served by the 230 kV transmission corridor between Bay d'Espoir and Soldiers Pond at this capacity limit is approximately 828 MW. It is noted that this load is supported by a combination of capacity from the 230 kV transmission corridor between Bay d'Espoir and Soldiers Pond as well as generation in the eastern portion of the Island Interconnected System. Equivalent Island load is 1,265 MW, assuming load curtailment at Corner Brook Pulp and Paper Limited is in effect.

[1] Three-phase faults at Bay d'Espoir are not considered as part of Transmission Planning Criteria.