1 Q. Further to PUB-NLH-36, given that the new and existing 230 kV circuits from Bay d'
2 Espoir to Western Avalon (including Sunnyside and Come-by-Chance) are in
3 network topology, please explain how a "major issue" at Sunnyside would not
4 affect the new circuit.

A.

The project proposal is for a 230 kV transmission line between Bay d'Espoir and Western Avalon Terminal Stations (TL267). This new transmission line will not connect to the Sunnyside Terminal Station. The Sunnyside Terminal Station will continue to be connected to the Bay d'Espoir Terminal Station via the existing two 230 kV transmission lines, TL202 and TL206. Sunnyside Terminal Station will continue to be connected to the Western Avalon Terminal station directly via TL203 and indirectly through the Come By Chance Terminal Station via TL207 and TL237 as shown in Figure 1 below.

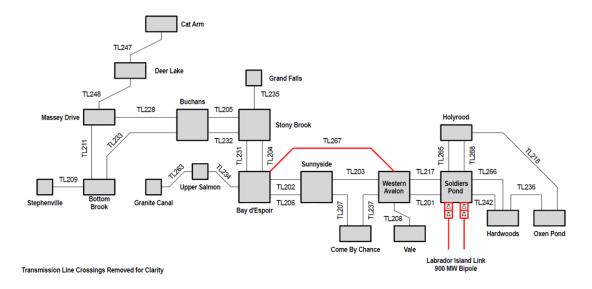


Figure 1 – Island 230 kV System with New Bay d'Espoir to Western Avalon Line TL267 and Soldiers Pond Terminal Station Added

Page 2 of 2

As noted in Hydro's response to PUB-NLH-036, a major issue at Sunnyside Terminal Station will involve the loss of the connection between Bay d'Espoir and Sunnyside. Figure 2 depicts a catastrophic loss of Sunnyside Terminal Station.

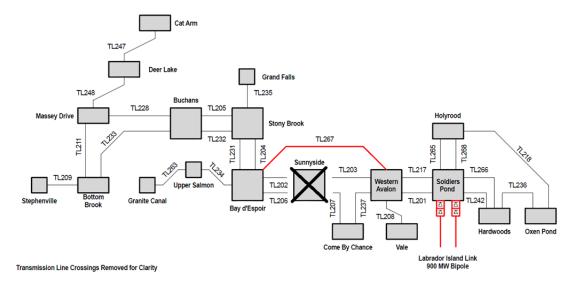


Figure 2 Island 230 kV System with Catastrophic Loss of Sunnyside Terminal Station

With loss of Sunnyside Terminal Station, no power can flow over TL202, TL206, TL203, TL207 and TL237 to the Avalon Peninsula. With the proposed topology, the new Bay d'Espoir to Western Avalon line (TL267) does not enter the Sunnyside Terminal Station and therefore would be available post contingency to maintain power flow between Bay d'Espoir and the Avalon Peninsula.

Had all three 230 kV transmission lines (TL202, TL206 and the new line TL267) been terminated at Sunnyside (the new 230 kV transmission circuit between Bay d'Espoir and Western Avalon going in and out of Sunnyside Terminal Station), a catastrophic loss of the Sunnyside Terminal Station would cut all connections between Bay d'Espoir and the Avalon Peninsula.