Q. 1 The report indicates that the proposed alternative was the only technically-viable 2 alternative considered (Section 7.0, page 56). What other alternatives are available 3 that meet the technical requirements of the system and how do they compare economically to the proposed alternative? 4 5 6 7 A. Preliminary analysis of the 230 kV transmission system east of Bay d'Espoir 8 considered the alternative of converting the existing 230 kV transmission system to 9 315 kV. Preliminary load flows found that the system preformed well during peak load periods but the system experienced significant overvoltage under light load 10 11 conditions due to the high levels of transmission line charging and required application of shunt reactors and/or removal of a 345 kV transmission line for 12 13 voltage control. 14 15 Appendix C1 of the Application provides the September 2011 application for the 16 construction of a new 230 kV transmission line from Bay d'Espoir to Western Avalon. Section 4 of Appendix C1 demonstrates the application of a new 315 kV 17 transmission line between Bay d'Espoir and Western Avalon. Given the technical 18 19 viability of a new 230 kV transmission line between the two stations, the alternative 20 of a new 315 kV line was dismissed as 315 kV line construction is more costly than 21 230 kV and the 315 kV alternative would require additional 230/315 kV 22 transformation not required in the 230 kV alternative.