1 Q. Reference: Volume II, Install Partial Discharge Monitoring - Holyrood Gas Turbine, Tab 6, page 2 1, lines 18 to 20 3 4 The Holyrood Gas Turbine Generator is not equipped with a Partial Discharge 5 Monitoring System. Hydro has partial discharge monitoring on the other high 6 speed gas turbine generators, as well as other generating units such as the units 7 in Bay d'Espoir. 8 Why was the Holyrood Gas Turbine supplied without partial discharge monitoring? In the 9 10 response explain how it is more cost effective to retrofit the generator now, rather than have it 11 included when originally supplied. 12 13 At the time of procurement of the Holyrood Gas Turbine, Newfoundland and Labrador Hydro 14 Α. ("Hydro") did not have a standard of installing partial discharge monitoring on its high-speed 15 16 (3600 rpm) generators. Hydro did not have a solid case to include partial discharge monitoring at the time and it was therefore not included in the original specification or included as part of 17 the engineering procurement and construction contract. There was a system installed on the 18 19 Hardwoods Gas Turbine generator at that time; however, this system had been installed in response to potential issues on that unit that could be identified using portable partial discharge 20 21 monitoring equipment. Since then, Hydro has gained more experience with online partial discharge monitoring and has begun installing these systems on its high-speed generators. 22