Q. On page 30 of the Supply and Install 100 MW (Nominal) of Combustion Turbine 1 2 Generation report, Hydro states:

"In the near term, a combustion turbine located at Holyrood provides...[t]he ability to return the leased black start diesels at Holyrood."

Has Hydro received assurances from the supplier that the 100 MW combustion turbine will be able to black start the Holyrood Thermal Generating Station? If so, please provide a copy of those assurances.

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Α. Hydro is confident that the new combustion turbine, with a rated output of 120

MW, can start the Holyrood Thermal Generating Station, and therefore assurance from the supplier were not sought. An analysis of the blackstart options revealed that a minimum of eight 2,000 kW diesel generators was sufficient to start the largest induction motor at the plant, a 3000 Hp boiler feed pump, necessary in order to black start the plant. Further analysis also determined that a nominal 25 MW combustion turbine was more than sufficient to black start the plant. The new combustion turbine has electrical characteristics which provide significantly more electric motor starting capability than either the diesel unit system or the smaller 25 MW and 15 MW combustion turbine solutions. The combustion turbine will be electrically connected to both the 230 kV station bus and the 4.16 kV station bus providing multiple paths to provide power and energy to the Holyrood Thermal Generating Station. As part of the commissioning phase of the installation, all operating modes of the new combustion turbine, including blackstart procedures, will be tested to ensure success.

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