Q. 1 The initial investigation concluded that the only damage to engine S/N 202224 was 2 the visible external damage to the engine caused by the heat from the fire. Later, a borescope inspection revealed that damage had occurred to the combustion 3 4 section internal to the engine, with combustion chambers 5, 6, and 8 showing 5 catastrophic damage. Can Hydro explain how internal damage to the combustion 6 chambers occurred as a result of a fire external to the engine? 7 8 9 Α. While the root cause has yet to be determined, as it is included in the scope of the 10 proposed project, a potential cause of the combustion chamber failure is the leak in 11 the fuel system. The pressure relief line was found to have a crack, which resulted 12 in a drop in fuel pressure to the engine while operating. The current hypothesis is 13 that the electronic control system attempted to compensate for this drop in 14 pressure by further opening the fuel control valve, flooding the combustion chambers with fuel. The combustion of this fuel within the combustion chambers 15

resulted in the damage to the combustion chambers and engine.

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