

1 Q. Reference: *Gas Generator Engine Refurbishments Hardwoods and Stephenville*,
2 Page 12, lines 10-11:

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4 *“A conservative estimate is that each engine will have at least 10 years of service life*
5 *remaining after engine refurbishment.”*

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7 On September 3, 2015, Hydro filed application for the approval of the Hardwoods
8 Gas Turbine Engine Refurbishment. In its response to Request for Information NP-
9 NLH-012 of that application, Hydro indicated that “...Hydro typically has operated
10 these engines for ten or more years after refurbishment, depending on usage.”

11 Does Hydro have any explanation, in light of the recent failure history for the gas
12 generators, as to why it has not achieved ten or more years of reliable service after
13 refurbishment?

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16 A. Hydro has not determined a single cause of the shorter than expected service life of
17 the refurbished engines. However, discussions with various qualified Olympus
18 Overhaul facilities suggested some possible factors contributing to the reduction in
19 service life stem from changes to the units’ operating regime for system support,
20 notably:

21 a. Increased operating hours at low loads.

22 b. Increased number of starts and stops.