

1 Q. Reference: *Gas Turbine Failure Analysis, Final Report*, Page 18, Lines 19 to 21:

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3 *“These improvements are expected to enhance the units’ short and long term*
4 *reliability, where long term is contemplated to be current forecasted end of life*
5 *dates of 2025 and 2028 for Hardwoods and Stephenville, respectively.”*

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7 Please provide a detailed explanation of why the end of life dates referenced above
8 are appropriate for the Hardwoods and Stephenville gas turbines.

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11 A. The current forecasted end of life of Hardwoods and Stephenville of 2025 and 2028,
12 respectively, were determined in 2014 when the scope of work for the life
13 extension capital project was established. However, since then, the operating
14 regime for the gas turbines has changed significantly, notably with increased unit
15 starts and operating hours, in order to provide increased reliability to the electrical
16 supply to customers. The inspection and overhaul frequencies are being updated to
17 ensure the Rolls Royce Olympus C engines and Curtis Wright power turbines will
18 reach 2025 and 2028 under the new operating regime. The alternators and auxiliary
19 equipment have a service life beyond 2025 and 2028 when maintained in
20 accordance with original equipment manufacturer recommendations.