

1 Q. **References: Tab 4; Volume II: Overhaul Olympus Gas Generator – Stephenville**
2 Hydro states on page 3, lines 10-11, *“The service life of the engine overhauls, which*
3 *utilize refurbished parts, is five years.”*

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5 All three options outlined in the Gas Turbine Planning Report (Appendix D, Tab
6 *“2019 – 2023 Capital Plan”*) have the Stephenville gas turbine being retired in 2021
7 meaning that the engine overall will be used for two years of its five-year life. Did
8 Hydro investigate less expensive alternatives other than a complete overhaul that
9 would be sufficient to permit the gas turbine to operate through to its retirement in
10 2021? If so, please provide the details. If not, please provide the rationale for not
11 doing so.

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14 A. Hydro currently completes the least expensive alternative with regards to
15 refurbishment of its gas turbines. Hydro typically plans for the full overhaul of its
16 gas turbines to ensure their reliability in the first year post overhaul as well as
17 subsequent years – the scope of the full overhaul is required for reliable operation.
18 For specific overhaul scope, Hydro tenders the scope of work based on the known
19 condition of the gas turbine from recent inspections and unit performance.

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21 Once an engine is brought into the overhaul facility, it is dismantled and inspected.
22 The components then replaced during these overhauls are only those deemed
23 unacceptable for continued reliable operation through to the next overhaul
24 interval, which is completing only what is required, providing the least-cost
25 investment.

- 1 If the Stephenville Gas Turbine is retired in 2021, both of its engines will have
- 2 continued service life as spares for the Hardwoods Gas Turbine facility for the
- 3 remainder of its service life.