Q. **Reference: Application, Capital Programs and Projects, Overhaul Turbine Valves and Generator – Unit 2 (2026) – Holyrood, page 2**

Footnote 7 states "*Hydrogen seals prevent hydrogen used for the generator cooling from leaking out of the generator casing, ….*" Where is the hydrogen sourced, how is it transported to the Holyrood site, and how is the hydrogen contained during the maintenance outage?

A. Hydrogen used in the generators at the Holyrood Thermal Generating Station ("Holyrood TGS") is purchased from a local supplier in accordance with *Public Procurement Act* requirements. The supplier delivers the hydrogen to the Holyrood TGS in bulk packs, each containing 16 cylinders of hydrogen. On site, the bulk packs are stored in a dedicated hydrogen storage facility, which is connected by piping to the three generators. Currently, filling of the generators is accomplished utilizing this piping, with hydrogen purged from the generators using compressed carbon dioxide and vented to the atmosphere during the maintenance outage; however, this system is undergoing changes in 2025.

Under the Remove Safety Hazards (2025) Program, a new facility is being constructed at the Holyrood TGS site, expected to be completed in the fourth quarter of 2025, that will allow a hydrogen trailer to be delivered to site instead of the bulk packs. The hydrogen tube trailer will connect to the new system, which will deliver the hydrogen to the generators. This is very similar to the system being used at Soldier's Pond, and will result in lower hydrogen and maintenance costs associated with the existing hydrogen storage facility.