

1     **Q.     Project C-18, Overhaul Turbine/Generator Unit 2 - Holyrood**

2             On page 14 of the report filed at Volume I, Tab 7, Hydro states that there are no  
3             alternatives to this project other than to delay the major overhaul which is not  
4             acceptable. Has Hydro done any research to determine whether other public  
5             utilities in the industry follow a major overhaul frequency of greater than nine  
6             years?

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9     **A.**     Hydro has not performed any research to determine whether other utilities follow a  
10            major overhaul frequency of greater than nine years. However, in 2003, Hydro  
11            contracted Hartford Steam Boiler Inspection and Insurance Company (HSB) to  
12            review Holyrood's turbine generation operation using HSB's proprietary Turbine  
13            Outage Optimization Program (TOOP) to determine if Holyrood could extend its  
14            current overhaul program beyond six years. The review included research by HSB  
15            into other public utilities in the industry to compare their overhaul frequencies with  
16            that of Holyrood's. All aspects of the turbine generator were reviewed including  
17            design, construction, historical experience, operation, maintenance, inspections  
18            and monitoring. HSB compared all of the unit parameters with similar units in their  
19            extensive fleet and concluded that, for all three units at Holyrood, the optimal  
20            maximum overhaul frequency is nine years without jeopardizing their safe and  
21            reliable operation.

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23            The AMEC Condition Assessment and Life Extension Study agreed with the 2003  
24            TOOP (HSB) report that the optimal overhaul frequency for the turbine is nine years  
25            but recommended that overhauls on the generators revert back to the six year  
26            interval. This specific recommendation will be further reviewed by Hydro before a  
27            final decision is made.