

1 Q. **Re: 9, Replace Fuel Oil Heat Tracing – Holyrood \$1,474,300 in 2012, \$1,413,900**  
2 **in future years.**

3 Provide an explanation as to the prudence of the approach that was taken in 2002  
4 in light of the manufacturer’s recommendations.

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7 A. Based on Hydro’s requests, Tyco provided three options for replacement of the  
8 heat tracing system. The self regulating cable system at a cost of \$84,277 for  
9 materials only, was their recommendation. A lesser cost option, the mineral  
10 insulated cable system was chosen with a material cost of \$18,143. To address the  
11 problem of corrosion experienced with the original design, it was decided to add a  
12 HDPE jacket. Ultimately, the jacket of this cable was not suitable for this  
13 application. The approach appeared to have merit, as it was based on one of the  
14 options provided by Tyco, and was a lower cost option than their recommendation.  
15 However, it caused above normal surface temperatures in the system which led to a  
16 failure of the intended design.