

1 **Q. Re: B-20, Upgrade Stack Breeching Unit 2 - \$1,505,100 in 2012**

2 In Volume I, Tab 7 at page 16, Hydro states *"The new internal insulation liner was*
3 *expected to reduce the maintenance costs associated with sulphuric acid-induced*
4 *corrosion caused by water damaged external insulation."* Alstom states at page A12
5 that prior to the installation of the internal insulation the projected annual
6 maintenance cost burgeoned from the expected \$8,000 per duct (extracted from
7 the 1988 internal cost analysis). What was the annual maintenance on the external
8 insulation before 1990 and how does that compare to the estimated maintenance
9 of \$2,000 to maintain the external insulation reflected in this project?

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12 **A.** Maintenance costs incurred before 1990 for the Unit 2 stack breeching insulation
13 system are not available. The cost estimate of \$2,000 annually to maintain the
14 external insulation was supplied by Alstom who are experts in boiler maintenance.
15 The new external insulation system will have a metal jacket and a protective steel
16 structure above to shield it from ice falling away from adjacent structures.
17 Maintenance is expected to be minimal.