

1 **Q. Re: Holyrood (HTGS) Stack Breeching**

2 With reference to Hydro's response to IC-NLH-5, Hydro advises that the floor of Unit
3 1 is already exhibiting cracks and heaving, and that the boiler service contractor
4 estimates that the floor will be need to be replaced around 2015.

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6 (a) Will the Unit 1 floor still need to be replaced even under Hydro's preferred
7 option for refurbishment? If not, why not? If avoiding replacing the Unit 1 Floor
8 is not an option under other alternatives for refurbishment, why is it an option
9 under Hydro's preferred option?

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11 (b) With reference to Hydro's response (c) to IC-NLH-7, Hydro advises the reduced
12 total maintenance costs (\$4,000 per year) for the nine-year CBA period for
13 Hydro's preferred option for refurbishment will be attributable in part to
14 avoiding replacing the steel floor. If the need to replace Unit 1 floor will remain
15 even under Hydro's preferred option for refurbishment, why has this corrective
16 maintenance cost not been included in the \$4,000 per year total maintenance
17 costs for Hydro's preferred option or in the total maintenance costs for the
18 other alternatives which are posited to have low (\$2,000-\$4,000) total annual
19 maintenance costs?

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22 A. (a) No, the Unit 1 floor will not require replacement under Hydro's preferred
23 option for refurbishment. The existing breeching is insulated internally on all
24 four sides. The purpose of the concrete floor is to protect the internal insulating
25 block installed on the bottom surface of the breeching interior from damage
26 when performing preventative maintenance inspections and repairs to the
27 remaining three sides of the breeching interior. Following completion of

1 Hydro's preferred option for refurbishment, none of the existing internal
2 insulation system will be required and hence a concrete floor will not be
3 required to protect the floor insulation blocks.
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5 Avoiding replacing the Unit 1 floor is not an option under Alternatives 3 and 7.
6 These alternatives require the floor to be internally insulated with an insulating
7 block and protected by a concrete layer on top.
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9 b) As per the response to question (a) above, the breeching concrete floor does
10 not require replacement for the preferred option and hence has not been
11 included in the \$4,000 per year total maintenance cost for Hydro's preferred
12 option. Also, the breeching concrete floor does not require replacement for the
13 other alternatives which are posited to have low (\$2,000-\$4,000) total
14 maintenance costs.