

1 **Q. Re: Holyrood: Upgrade Unit 2 Stack Breeching (Tab 7)**

2 With respect to the budget Estimate at Section 5.1, please provide the project costs
3 for each element or aspect of the work which Hydro is proposing to undertake in
4 this overall project ego refurbishing steel casing, work on East Support Structure,
5 work on West Support Structure, insulation of breeching externally, ice protection
6 shelters, etc.

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9 **A.** The costs associated with the refurbishment of the stack breeching ducts for Unit 2
10 are shown in Table 1 below. Costs associated with the replacement of the stack
11 breeching support structures for Unit 2 are shown in Table 2.

Table 1: Cost Estimate - Refurbishment of Stack Breeching Ducts for Unit 2

1	Refurbish Stack Breeching Ducts	(x \$1000)
	a. Install Patch Plates	182.8
	b. Replace Expansion Joints	116.9
	c. Install Exterior Insulation with Weather-tight Cladding	461.4
	d. Install Ice Shields	112.5
2	Equipment Rentals	38.0
3	Internal Labour (Hydro)	123.4
4	Travel	2.0
5	Engineering Consultant	35.9
6	Interest and Escalation	83.2
7	Contingency	107.3
	Total	1,263.4

Table 2: Cost Estimate - New Stack Breeching Support Structures for Unit 2

1	Replace Stack Breeching Support Structures	(x \$1000)
	a. Replace East Structure	66.8
	b. Replace West Structure	66.8
2	Equipment Rentals	10.0
3	Internal Labour (Hydro)	40.0
4	Travel	2.0
5	Engineering Consultant	20.0
6	Interest and Escalation	15.5
7	Contingency	20.6
Total		241.7

1 Work items listed under item 1 in both tables above will be completed by a
2 contractor.

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4 Estimates provided are based on the assumption that the proposed scope of work
5 will be executed at the same time. If only the work associated with Table 1 or Table
6 2 is approved, economies of scale will be lost whereby the cost of the work
7 associated with each table will be higher.