

1 Q. For the budget item identified below, provide the following information:

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<i>Budget Item</i>	<i>Amount</i>	<i>Description</i>
B-19	\$801,000	Purchase and Install Continuous Emission Monitoring

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4 (a) Provide a copy of the health risk assessment that concluded  
5 quantification of emissions is required.

6

7 (b) Explain why the other monitoring equipment currently in place is not  
8 sufficient to calculate emissions.

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10 (c) Detail the benefits that will accrue from enhancement of control of the  
11 combustion process.

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14 A. (a) Attached is a copy of "Holyrood Risk Assessment Final Report  
15 Summary", November 1999.

16

17 (b) The equipment currently installed measure only SO<sub>2</sub> emissions.  
18 Without an exact SO<sub>x</sub> / NO<sub>x</sub> emission ratio, the impingement of  
19 gaseous NO<sub>x</sub> cannot be determined. The actual SO<sub>x</sub> / NO<sub>x</sub> emission  
20 ratio is dependent on:

21

22 • The sulphur content of the fuel;

23 • The nitrogen in the fuel; and

24 • The excess oxygen present during combustion.

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1           The actual emission ratios for all fuel composites are required to  
2           assess the viability of assumptions based on the above report.

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4           (c)   Air emissions from the Holyrood Thermal Plant consist of, in part,  
5           particulate, NO<sub>x</sub>, SO<sub>x</sub> and acid aerosols. Continuous emission  
6           monitoring will provide the data necessary to control the combustion  
7           process and permit management of emissions. The plant currently  
8           does not have this capability.