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

In Volume II, Tab 7, page 7, Hydro stated that prior to the FD fan upgrade the flue gas velocity was 43 feet per second. The supplier for the internal insulation, Autochem, gave assurances that the liner could withstand gas velocities of up to 120 feet per minute. However, after the FD fan upgrade the flue gas velocity reached 50 feet per minute, and this velocity proved to be damaging on the breeching's insulation liner. Previous evidence filed in relationship to the Unit 1 stack breeching upgrade stated that the FD upgrade produced flue velocity of 50 feet per second. Please confirm the flue velocity for the FD fan upgrade and the allowable flue gas velocity for the liner, as quoted by Autochem.

A. Following upgrades to the Unit 2 FD fan in 1991, the flue gas velocity inside the breeching increased from 43 to 50 feet per second (fps). Autochem, the supplier of the breeching internal insulating block, indicated that the insulating blocks were suitable for flue gas velocities up to 120 fps.