PLAINTIFF'S EXHIBIT
FOS-559

Analyses of Stelco Samples

(Collected by Ontario Research Foundation 12/3/73)

Nine samples were submitted:

Insulation Board

Spl. 3 New
Spl. 4 New Gasket
Spl. 7 Used

Disintegrated Board

Spl. 5 Dropped from Preparation Table
Spl. 8 Burnt, from Cleaning Area
Spl. 9 Dust, from Ground

Airborne Dusts

Spl. 1 Hot Top, Preparation Line
Spl. 2 Face Mask, Preparation
Spl. 6 Hot Top, Cleaning Area

These samples are said to be derived from insulating board and gaskets made from a mixture of Olivine, fiber glass, and newsprint, with 4-7% Hedman fiber added. Microscope examination shows fiber glass and a granular material as primary phases, with smaller fibrous matter in lesser amounts.

X-Ray diffraction of these samples showed only Wollastonite ($CaO \cdot SiO_2$) in all cases except that Sample 9 also showed a very faint unidentified pattern, possibly of forsterite. Evidence for the presence of Chrysotile and Lizardite (components of unaltered Hedman fiber) is not seen, even in the new (unheated) fiber-board. Wollastonite is the main component in all samples.

The concentration of Chrysotile and/or Lizardite in these samples is too low to permit detection by X-Ray Diffraction in the presence of the strong Wollastonite.

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