PLAINTIFF'S EXHIBIT
UC-215

METALS DIVISION

NEW YORK 14302

To (Name) Mr. B. L. Ingalls
Division
Location

Date May 12, 1982

Originating Dept.

Answering letter date

Copy to Mr. R. E. Byrne
Mr. D. F. Kapral

Subject PLENUM TEST

Enclosed are the results of the controlled environment tests run on King City tailings materials and raw ore samples.

Airborne asbestos dust counts in fibers greater than five microns per cubic centimeter of air are shown for tailings that were obtained at the surface of the pile, one foot within the pile and two feet within the pile. The same information is also shown for the ore sample.

Both substances were agitated on a Derrick pan vibrator at the maximum setting to simulate attrition. Asbestos fibers liberated during this agitation were released in a closed chamber and collected on millipore filters by drawing air through them at the normal sampling rate of two liters per minute. The chamber is 50 cm long, 56 cm wide and 62 cm high. The filters are approximately 54 cm from the surface of the material. Figure 1 shows the equipment and its arrangement.

A set of control samples were run between each sampling to determine any residual fiber left from the clean-up of the previous material. The filters were then analyzed by the standard phase-contrast optical fiber counting technique. I hope to have some 35 mm photomicrographs of these emissions shortly.

I did not determine any free water in these samples as I assumed they were dry enough for your purposes when given to me.

Let me know if you need anything further

F. Smith

Fred L. Smith

FLS:vab
enc.

Plenum Chamber

