

CELANESE CHEMICAL COMPANY, INC.
TECHNICAL CENTER
Corpus Christi, Texas

To: R. M. Guedin

From: P. A. Drake PAD-130-83 February 3, 1983

Analysis of
Bishop Insulation Material

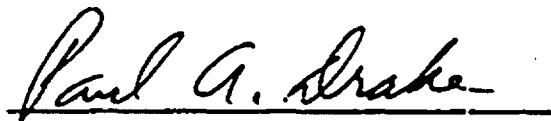
A sample of insulation from the No. 11 boiler in Bishop was submitted by Mr. C.E. Gary for asbestos analysis.

Under Scanning Electron Microscope (SEM) examination, this material appeared to be granular in nature, and by Energy Dispersive X-ray (EDX) analysis, contained major amounts of Si and Ca, along with minor amounts of Mg, K, Al, Mn, Fe, and Zn. Asbestos, under SEM examination, would appear filamentous in nature and EDX analysis would show it to be primarily Mg, and Si.

An X-Ray Diffraction (XRD) scan of this material shows that it is quite amorphous but does contain CaCO_3 , SiO_2 , and at least one other phase which cannot be identified.

This material, since it contains small amounts of Mg, could contain small amounts of asbestos, but x-ray diffraction would only detect amounts in excess of about 5%.

We shall retain the sample here, but plan no further work unless requested by Mr. Gary.


P. A. Drake

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Keywords
Asbestos
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CCCTC

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