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November 2, 1993



PHILIP MOREAU
Toulouse

RE: ACTINOLITE FOR TOXICOLOGY STUDY
Project No. 93-077b

Dear Philip,

Finally, at long last, AEM analyses of the actinolite samples collected by Lance Meade have been performed. Scanning-transmission electron photomicrographs taken with our JEOL-1200EX AEM of an actinolite sample from the vicinity of Windham, Vermont, and one from the vicinity of Ludlow, Vermont, are presented on the attached plates.

Plate I displays photos of actinolite from the Windham area. All grains examined were cleavage fragments; grains that would qualify distinctly as asbestiform--i.e. showed broom-tail terminations and curvilinear fibers--were not detected. Grain morphology ranged from low to very-high aspect ratios.

Plate II shows photos of actinolite from the Ludlow area. Grains that would qualify distinctly as asbestiform were not detected. Morphologies included low and very-high aspect ratios. This sample seemed to have a lower average aspect ratio than the sample from the Windham area.

Both samples will be sent to you in rock form. The rocks are not pure actinolite, but I hope that enough actinolite can be removed in order to suit the needs of the toxicology study. If you need additional samples, please contact either myself or Lance Meade.

Best regards,

Michael Clark

copies to: Bill Sevy, J.P. Grange, files.

EUROPEAN TOXICOLOGY STUDY:
ACTINOLITE SAMPLES
Project No. 93-077B

Plate I
ACTINOLITE FROM
WINDHAM, VERMONT

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TECHNICAL CENTER
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M.L. Clark



