Insulation Analysis from Radio
Station, Reed, Oklahoma
Case 48106-3

J. Vegen

Bell Laboratories

600 Mountain Avenue
Murray Hill, New Jersey 07974
Phone (201) 582-3000

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PLAINTIFF'S EXHIBIT

SWB-82

R. E. Bonn
AT&T-Long Lines
811 Main Street
P.O. Box 1418
Kansas City, MO 64141

Dear Bob:

Three of the dust sample collected by Lowell Chaney at the Reed Radio Station, Reed, Oklahoma have been analyzed by x-ray diffraction and optical microscopy.

Sample #1 (a bulk insulation sample from the bottom of the exhaust stack) The major crystalline components were found to be: Chrysotile (a form of asbestos), Calcite, Quartz, and Kaolinite. Optical microscopy revealed the presence of many small fibers. The fibrous appearance of many particles and the presence of crysotile diffraction peaks denotes that this material contains asbestos.

Sample #2 (small pieces of insulation from the top of the valve cover on the engine.) Although fibrous particles were also noted in this sample no form of asbestos was seen on the x-ray diffraction scan. The limit of detection for asbestos by x-ray diffraction is ~5%. The major crystalline materials noted were Kaolinite, Calcite, and Quartz.

Sample #3 (dust from iron work above engine) Again fibrous particles were noted by optical microscopy but the only crystalline material identified by x-ray diffraction was Quartz. None of the forms of asbestos were seen on the diffraction scan.

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I was not able to analyze any of the other samples which were sent on patches of dust cloth. If you have any further questions about this analysis please let me know.

Sincerely,

C. P. Lichtenwalner

Copy to
R. L. Beach)
N. J. DeCapua) AT&T
R. W. Stone, M.D.)

G. W. Barnard) AT&T-LL

W. J. Schreibeis
G. M. Wilkening

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