



Mr. Deigan

Bell Laboratories

subject Environmental Measurements of Asbestos date: November 10, 1977
Exposure to New York Telephone
Employees Working at Yankee Stadium, from: R. Deitchman
Bronx, New York
Case 48106-3
48087-1

Memorandum for Record

Flaking ceiling insulation is a concern of New York Telephone employees working at Yankee Stadium, Bronx, New York as to potential asbestos exposure. The entire clubhouse ceiling of the stadium was sprayed with insulating material where New York Telephone employees have a storeroom, monitor the television - telephone interface, install and service telephones, and may run cable for additional telephone capacity. The Bell System Services Group at Bell Laboratories was requested to perform an industrial hygiene evaluation by Dr. C. Steinmetz of New York Telephone.

Summary

General environmental sampling and bulk sample collection was performed at Yankee Stadium, Bronx, New York on October 17, 1977 to evaluate New York Telephone Employee exposure to asbestos. The results indicate asbestos is present in spray insulation on the ceiling of the clubhouse area, however, at the present time airborne levels are low. The material appears to be flaking and could represent a problem in airborne exposure in the future.

Recommendations

The recommendations are:

- (1) New York Telephone Employees working in Yankee Stadium should be informed of the results of this investigation.
- (2) The management of Yankee Stadium should be informed of their potential problem of flaking ceiling insulation in the clubhouse area.

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- (3) Special precautions should be undertaken to reduce New York Telephone Employee asbestos exposure if installation or repair work involves disturbances of the ceiling insulation. Procedures described in the OSHA Safety and Health Standards (29 CFR 1910.1001-Asbestos) should be followed.

Procedure

Asbestos samples were collected using the procedures outlined by the National Institute for Occupational Safety and Health (NIOSH) and the Occupational Safety and Health Administration (OSHA). The procedure involves collection of the fibers on a small filter cassette with later analysis using phase contrast microscopy. The microscopic analysis was performed by the Bell Laboratories Environmental Health and Safety Department.

Air was pulled through the filters using battery powered sampling pumps manufactured by MSA at 2.0 l/min. The pumps were calibrated using the soap bubble flowmeter technique.

Bulk samples were taken by removing a small section of the spray insulation and placing it into a sealed envelope. This procedure was completed after environmental sampling so the disturbance of the ceiling insulation would not contaminate the general air sampling. The material was shipped to ES Laboratories, Marlton, New Jersey for analysis.

Results

The results of bulk sample analysis by ES Laboratories are shown in Table I. The results indicate variable composition of chrysotile (asbestos). This is considered typical in spray insulation as original raw material input may vary especially where chrysotile is not the major constituent.

Table II presents the results of airborne asbestos sampling. The values indicate ambient exposure levels.

Roy Deitchman

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Industrial Hygienist

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Table I. Bulk Analysis of Mineral Phases Present from Spray Insulation Samples Taken at Yankee Stadium, Bronx, New York.* October 17, 1977.

Location of Sample:	Ceiling over Room B200	Ceiling over Room B173
Mineral Phases Present		
calcite	50%	45%
gypsum	25%	25%
rutile syn.	ND ^x	10%
α quartz (free silica)	<5%	5%
chrysotile (asbestos)	ND	10%
anhydrite	15%	ND

* Analysis performed by ES Laboratories, Marlton, New Jersey

^x ND = Not Detected

Table II. Airborne Asbestos Levels Measured at Yankee Stadium, Bronx, New York. October 17, 1977.

<u>Location</u>	<u>Duration (minutes)</u>	<u>Concentration (fibers/cc)</u>
Area Sample - Room B173 (NY Tel Supply Room)	53	0.01
Area Sample - Hallway outside Room B173	95	0.01
Area Sample - Outside ambient (Yankee Dugout)	40	0.01
OSHA Standard	480	2.00

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