



Bell Laboratories

subject: Asbestos Evaluation of AT&T,
Piscataway, N. J.
Case: 48106-3

date: June 27, 1983

from: P. C. Payne
MH 78691
1F-108, 3094

MEMORANDUM FOR RECORDSummary

On June 2-3, 1983 an asbestos survey was conducted at AT&T, 444 Hoes Lane, Piscataway, New Jersey. Bulk and air filter samples were collected in Buildings 1, 2, 3 and 4. Asbestos fibers were identified in all the bulk insulation samples. The airborne fiber concentrations were all below the Occupational Safety and Health Administration's (OSHA) permissible exposure limit (PEL) for asbestos of 2 fibers per cubic centimeter of air averaged over an 8-hour work period.

Introduction

Mr. John Downes of 195 Broadway Corporation requested an evaluation of asbestos be made at the AT&T facility in Piscataway, N. J. Ms. Patricia Payne of Bell Laboratories performed the survey on June 2-3, 1983, accompanied by Mr. Larry Doyle and Mr. Bill Murphy, both of 195 Broadway Corporation.

Methods

A walk-through survey was first done to select sampling locations. MSA (Model G) personal sampling pumps with a MCE (0.8µm, 37 mm) filters in line were calibrated before and after use. Representative area air filter samples were collected in Buildings 1 through 4.

Bulk insulation samples were collected where possible in the same area of the air filter samples. All samples were analyzed by Clayton Environmental Consultants, Inc. of Edison, N. J.

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Analysis of the air filter samples for fibers greater than five microns in length with an aspect ratio of three to one or more were done in accordance with National Institute for Occupational Safety & Health P&CAM 239.

The bulk insulation samples were analyzed by polarized light microscopy to identify fibers with the morphological and optical characteristics of asbestos fibers.

Results

The area fiber concentrations for the locations monitored are reported in Table One. All of these sample concentrations are below OSHA's PEL for asbestos, as well as the medical surveillance requirement set at 0.1 fibers/cc for an 8-hour time-weighted average.

All the bulk insulation samples contained asbestos fibers as reported in Table Two. The Treasury Computer Room (2D-100) did not have any sprayed-on insulation above the ceiling tiles. Therefore, no asbestos insulation material could be found in this location.

Discussion.

Based on the results of this asbestos survey, the ambient fiber levels measured are well below the OSHA's PEL for asbestos and do not present a potential health hazard. Should the asbestos insulation be disturbed, appropriate control procedures need to be taken in compliance with federal and state regulations.

MH-78691-PCP-mib

W. B. ... 6/25/82
Patricia C. Payne

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Table One
 Asbestos Air Samples Collected Prior
 AT&T, 444 Hoes Lane, Piscataway, N. J.
 June 2-3, 1983

<u>Sample Description</u>	<u>Duration (minutes)</u>	<u>Volume of Air (L)</u>	<u>Fibers/cc</u>
1. Bldg. 1D-5D100 - Operations Computer	365	566	<0.004
2. Bldg. 4C - 2nd Floor "Other Place"	300	545	<0.004
3. Bldg. 3 - 2nd Floor Cafeteria	167	324	<0.006
4. Bldg. 1C - 157 Central Mailroom	294	585	<0.003
5. Bldg. 2D - 100 Treasury Computer	299	565	0.004
6. Bldg. 4D - 520 Ed. & Career Center	252	50.1	<0.004
1. Bldg. 3D - 108 Control Room	172	342	<0.006
2. Bldg. 3 - 1st Floor Engine Room	173	353	<0.006
Blank	-	-	ND*

* Below the lower limit of detection
 of 2,024 fibers per filter.

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Table Two

Asbestos Analysis of Bulk Insulation
Samples Collected From AT&T,
444 Hoes Lane, Piscataway, N.J.
June 2-3, 1983

<u>Sample Description</u>	<u>Asbestos Fibers Detected</u>	<u>Percent Total Asbestos in Sample</u>
Bldg. 1D - 5D100 Operations Computer	Chrysotile	2-4%
Bldg. 4C - 2nd Floor Hall Near Other Place	Chrysotile	1-2%
Bldg. 4D - 520 Ed. & Career Center	Chrysotile	1-2%
Bldg. 3 - 1st Floor Engine Room	Chrysotile	7-9%
Bldg. 1C - 157 Mailroom	Chrysotile	4%

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