



AMERICAN MUTUAL LIABILITY INSURANCE COMPANY

REPORT OF INVESTIGATION

Quin-T Corporation
Tilton, New Hampshire



By

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Accredited by A.I.H.A.

February 26, 1980

ENGINEERING DEPARTMENT

#34

SC-ELEC-07560

LABORATORY REPORT

ASBESTOS FIBER COUNT RESULTS

The six (6) samples obtained by your personnel have been analyzed and counted in our laboratory. The results are shown on the attached Air Analysis Tables.

METHOD OF ANALYSIS

Airborne concentrations of asbestos fibers were made by membrane filter method at 400 times magnification with phase contrast illumination as required by the Occupational Safety and Health Standard (OSHA) 1910.93a (Federal Register Vol. 37 No. 110 - Wednesday June 7, 1972).

PERMISSIBLE EXPOSURE TO AIRBORNE CONCENTRATIONS OF ASBESTOS FIBERS (OSHA Std. 1910.93a)

The eight hour time weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed 2 fibers (longer than 5 micrometers) per cubic centimeter of air. (Effective September 30, 1975)

The permissible ceiling concentrations - 10 fibers per c.c.

NOTE: Proposed OSHA Standard Section 1910.1001 (Federal Register Vol. 30 May 1977 Thursday, October 9, 1975) recommends a lowering of permissible exposure to an eight hour time weighted average not to exceed 0.5 fibers per c.c. and a Ceiling Concentration of 5 fibers per c.c.

LIMITATIONS

The attached results are on the samples as received. The results can be no more accurate or informative than the accuracy and care taken in collecting the samples.

1980 - lab report

DATE February 26, 1980PLANT Quin-T CorpLOCATION Tilton New Hampshire

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AIR ANALYSIS TABLE

Sample No.	Time Mins.	Location and Events	fibers/cc Concentration
Blank		Blank	0.0025 fibers/field
AIW-1	111	Amer Insulated Wire Ambient Air	0.013
AIW-2	78	" " " ESE tape operator	< 0.0089
AIW-3	74	" " " ESE tape area sample	0.075

Threshold Limit Value

2.0

A—Milligrams per Cubic Meter

B—Parts per Million

C—Million Particles per Cubic Foot

D—Micrograms per Cubic Meter

AMERICAN MUTUAL LIABILITY INSURANCE CO.

Date	Description and Time Log
2-15-80	
Pl. American Insulated Wire	
Department	Area Sample at tape
Location	wrapping machine
Operator's Name	
Sample Type Area Sample	1 1/2" Callegard ESE
Pump No. E-02-1001 Flow Rate 2.0	
Start Time 1:54 p.m.	
Stop Time 3:08	
Sample I.D. No. AIW-3	
Operation Description: (Equipment used, Job procedures, techniques, speeds)	
Wrapping cable with ESE tape.	
Material Size 1 1/2" width .010" thick	
Process Speeds	
Amount of Material	
Normal Operator Work Cycle: 8-12 hrs./day	
Actual Operating Time: 4 hrs./day	
Rate the following: 0 = None, 1 = Slight, 2 = Moderate, 3 = High	
1. Ventilation Control 0	
2. Drafts 1	
3. Settled dust on machines 0	
4. Settled dust on floor 0	
5. Settled dust on clothing 1	
6. Airborne dust 0	
7. Traffic 1	
Sampled by: MW E. E. E.	

