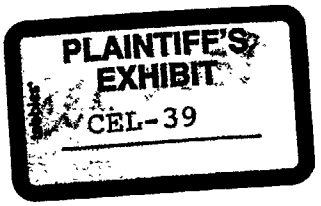
CELANESE CHEMICAL COMPANY
Chemcel Plant
Bishop, Texas



To: J. D. Cantrell - Safety

From: Ann E. Retherford AER-18-76 March 25, 1976

Asbestos Monitoring of Maintenance Personnel

Insulators from the Chemical Plant Maintenance Department have been monitored over the period December 19, 1975 - February 13, 1976 for exposure to airborne asbestos. The attached results are given as 8-hour time weighted averages (Table I). Analysis was by National Loss Control Laboratory of Long Grove, Illinois, accredited by the American Industrial Hygiene Association. A laboratory analysis report is attached. The 8-hour TWA's were calculated from this information.

The personnel involved in the monitoring were working in various areas of the plant, removing insulation containing asbestos. Personnel monitoring was carried out according to Federal Register Vol. 39, No. 125, p. 23544. The frequency of the sampling complies with the Occupational Safety and Health Act, Section 1910.1001 (Appendix I).

Ann E. Retherford

AER/dh
Attachments

cc: Messrs. G. D. Boyd - Bishop
W. H. Meyer
P. J. Volpe
W. T. McNair - CCCTC
Central Files (2)

Uniterms:
Asbestos
Monitoring
Maintenance
OSHA

004018

File: 259.2

Table I

Asbestos Measurements Results

Name	Social Security Number	Date	Area	Job Description	8-Hour Time Weighted Average Exposure Fibers/cc (1,2,3)	Highest Exposure
Paul T. Jeane	433-20-9235	12-19-75	Instrument Lab	Removing insulation from water lines in cooling.	<.02	.1
Frank D. Williams	453-26-5988	12-19-75	Instrument Lab	Removing insulation from water lines in cooling.	<.02	.1
Pablo Suarez	465-38-0715	2-04-76	Boiler Plant No. 1	Removing insulation from Fairbanks-Morse air compressor.	<.02	.14
Mike Salinas	456-26-2565	2-05-76	MO-II	Insulation removal from valve.	.09	.71
Mike Salinas	456-26-2565	2-06-76	Paraform Unit	Insulation removal from Valve 545.	<.02	.33
			MO Blending Unit	Insulation removal from overhead line.		
R. A. Walkley	120-01-6830	2-06-76	Paraform Unit	Removing insulation from Valve 545.	<.05	<.33
Frank D. Williams	453-26-5988	2-13-76	MO-II	Removing insulation from a reboiler.	<.01	.33
Joe Trevino	459-20-6468	2-13-76	MO-II	Removing insulation from a reboiler.	<.01	.33
Mike Salinas	456-26-2565	2-13-76	PE	Removing insulation from 600-lb. Steam Lines.	.60	6.3

Footnotes:

(1) Calculation of 8-hour TWA, Federal Register, Vol. 39, No. 125, p. 23540.

(2) Permissible 8-hour TWA exposure to airborne concentrations of asbestos fibers, established effective July 7, 1972, <5 fibers longer than 5 micrometers, per cubic centimeter of air.
Note: Standard Effective July 1, 1976 (8-hour TWA) <2 fibers, longer than 5 micrometers, per cubic centimeter of air.

(3) Method of analysis: Phase microscopic fiber counting by National Loss Control Laboratory, Long Grove, Illinois.

APPENDIX I

Occupational Safety and Health Act
Asbestos Regulation Section 1910.1001

Section 1910.1001 Asbestos

Sampling Frequency and Patterns

"After initial determinations, samples shall be of such frequency and pattern as to represent with reasonable accuracy the levels of exposure of employees. In no case shall sampling be at intervals greater than 6 months for employees whose exposures to asbestos may reasonably be foreseen to exceed exposure limits."

ENVIRONMENTAL SCIENCES LABORATORY, A-1

Long Grove, IL 60049 • 312 | 540-2488

LABORATORY ANALYSIS REPORT

REPORT DATE: March 9, 1976

SAMPLES REC'D: March 5, 1976

REQUEST NUMBER: 00949

TO: Celanese Chemical Company
P. O. Box 428
Bishop, Texas 78343
Attn: Ann Rutherford

RESULTS

SAMPLE NUMBER	ANALYSIS REQUESTED	Fibers/CC
	ASBESTOS FIBER COUNT	
A 2131		0.33
B 2131		0.33
2132		6.3
2133		∠0.61
Blank		Subtracted from sample before calculation.

∠ = less than

Plain Millipore filters (not grid) are preferrable for asbestos counts. If you request it, we will furnish these at no extra charge. Otherwise order MA 037 WPAO

COMMENTS: Analytical Method used: Phase Microscopy.

Respectfully submitted,

Betty S. O'Shea, Manager
Environmental Sciences Laboratory
Certified Industrial Hygiene Chemist

004021

CHEMICAL CO

037 10-75 5M

ENVIRONMENTAL SCIENCES LABORATORY, A-1

Long Grove, IL 60049 • 312 | 540-2488

GCL
HAD
FRD
AGM
GDB ✓
BCK
WOM
CC
Circ.
Ret.
File

To Mr. W. H. Meyer
c/o Celanese Chemicals
Box 428
Bishop, Texas 78343

REPORT DATE: January 23, 1976
SAMPLES REC'D: January 16, 1976
REQUEST NUMBER: 00825

LABORATORY ANALYSIS REPORT

SAMPLE NUMBER	ANALYSIS REQUESTED	RESULTS			
		fibers/cc			
	Asbestos				
A-12121		0.2			
A-12122		< 0.2			
A-12191		< 0.1			
A-12192		0.1			
B-12121		< 0.2			
B-12122		< 0.2			
B-12191		< 0.1			
B-12192		< 0.1			

COMMENTS:

< means less than

The analytical method used was phase microscopy.

Respectfully submitted,

Betty S. O'Shea

Betty S. O'Shea, Manager
Environmental Sciences Laboratory
Certified Industrial Hygiene Chemist

004022

[illegible] CONTROL SERVICE CORPORATION

ENVIRONMENTAL SCIENCES LABORATORY, A-1

Lone Grove, IL 60049 • 312 | 540-2488

HAD ____
AGM ____
FRD ____
GDB ✓
BCK ____
HHT ____
WOM ____
JB ____
Circ. ____
Ret. ____
File ____

To: Celanese Chemical Company
Box 428
Bishop Texas 78343

REPORT DATE: February 26, 197
SAMPLES REC'D: February 23, 197
REQUEST NUMBER: ~~00921~~

LABORATORY ANALYSIS REPORT

SAMPLE NUMBER	ANALYSIS REQUESTED	RESULTS			
		Fibers/CC			
	Asbestos Count				
241		0.14			
251		0.71			
A261		0.33			
A262		< 0.30			
B261		< 0.33			
Blank		Subtracted from samples before calculation			
	< = less than				

Comments:

The analytical method used was Phase Microscopy.

Respectfully submitted,

Betty S. O'Shea

Betty S. O'Shea, Manager
Environmental Sciences Laboratory
Certified Industrial Hygiene Chemist

004023

CELANESE CHEMICAL CO

CARPENTER-INSULATORS-PAINTERS

EXPOSURE TO ASBESTOS

Monthly Report for MARCH 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
Leo Bell	3-9-76	1 hr 12.75	Removal insulation #68
Charles Vega	3-9-76	1 hr 12.75	Removal insulation #6 B
Leo Bell	3-12-76	2 hr 12.75	Removal insulation
Frank Williams	3-12-76	2 hr 12.75	Removal insulation
Paul Jones	3-15-76	2 hr 12.75	Removal insulation
Leo Bell	3-17-76	2 hr 12.75	Removal insulation
Frank Williams	3-22-76	3 hr 12.75	Removal insulation
Leo Bell 12.75	3-23-76	1 hr 12.75	Removal insulation

Labor Dept

EXPOSURE TO ASBESTOS

Monthly Report for March 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
MARTINEZ	3-4-76	Hour 2	ASBESTOS
SIAS.	3-4-76	Hour. 2	ASBESTOS

004024

EXPOSURE TO ASBESTOS

Monthly Report for APRIL 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
Perry L.	11-28-76	hrs. 1 AB	ASBESTOS
[illegible] E.	11-25-74	hrs. 1 AB	ASBESTOS
[illegible] F.	11-26-74	hrs. 1 AB	ASBESTOS
[illegible]	11-25-76	hrs - 1 AB.	ASBESTOS
		Arthur Bloo.	

004025

EXPOSURE TO ASBESTOS

Monthly Report for May 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
DeLAPAZ A.	5-3-76	hrs 1	ASBESTOS
TALIP H.A.	5-3-76	hrs 1	ASBESTOS

Arthur Bros

004026

EXPOSURE TO ASBESTOS

Monthly Report for May 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
Mike [illegible]	5-3-76	8 hrs 12.95	Remove insulation
Pablo [illegible]	5-3-76	8 hrs 12.95	Remove insulation
Pablo [illegible]	5-13-76	1/2 hr. 12.95	Remove insulation
[illegible]	5-17-76	1 hr 12.95	Remove insulation
[illegible]	5-25-76	[illegible] 12.95	Remove insulation
[illegible]	5-25-76	1 hr 12.95	Remove insulation

004027

EXPOSURE TO ASBESTOS

Monthly Report for May 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
SANCHEZ - J P	5-25-76	5-10 min -	Saw asbestos into with hack saw - trim alum. cover —

004028

EXPOSURE TO ASBESTOS

Monthly Report for June 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
[illegible]	6-28-76	2 hr 12 ½	Removal insulation

004029

Labor Legal

EXPOSURE TO ASBESTOS

Monthly Report for June 1976

EMPLOYEE NAME	DATE	LENGTH OF EXPOSURE	TYPE OF EXPOSURE
Perry L.	6-21-76	hrs 2	ASBESTOS
Tolepez M	6-21-76	hrs 2	ASBESTOS

Please check and ascertain if these employees have had a P.F. test in the past years

004030