ASBESTOS - EVALUATION AND SURVEY

Date Feb 25, 1975 Project J.R. Monini - Insulator

Department Services Location Bldg 771 - Cell 117 Bldg. No.

Requested by R.W.C. Reason Possible Asbestos Exposure

General Conditions: Small Cell - Cell door closed. Wrapping 1/4" tubing with Asbestos tape (worst possible condition)

Sampling Method and Equipment 38C - 29X4 - R1a

Sampled by Bott & Wilson

Sample Number	Sampling Time - Min.	Flow Rate	CONCENTRATION Fibers/ml>5 μ
1	79	2L/m	1.97

Special Conditions

$$\frac{.29 \times 855}{.00055 \times 158 \times 1000} = 1.97$$

Calculation: $\frac{\text{(Avg. Fiber Count - Avg. Blank Count) Total Filter Area}}{\text{(Counting Area) (Vol. Air-Liters) (1000)}}$ = Concentration, fibers per milliliters >5 μ

Remarks:

Sketch - See reverse side. Reference No. File Analyzed by Bott Date Feb 26, 1975

ASBESTOS COUNT RECORD SHEET

SAMPLE# 1 OPERATION J. R. MONIN

FLOW 2.0 LPM TIME 79 VOLUME 158 L DATE Feb 6, 1975

INITIALS _____ F.AREA 6 X 20 BLK.CNT.AV. 0

AV.COUNT 5.83 CONCENTRATION _____

COMMENTS Wrapping 1/4" tubing with Asbestos tape
Cell-117 Bldg 771

	1	2	3	4	5	6
0	0	0	0	0	1	1
	1	0	0	1	0	0
	0	0	0	0	0	0
	0	2	1	0	0	0
	1	1	0	1	0	0
5	0	0	0	0	0	0
	1	0	1	1	0	0
	0	0	1	1	1	0
	1	0	0	1	1	0
	0	0	0	1	0	0
10	1	0	0	0	0	1
	0	0	0	0	0	0
	0	0	0	0	1	0
	0	0	0	0	0	0
	0	0	1	1	1	0
15	0	0	0	1	1	0
	0	0	0	0	0	0
	1	1	0	0	0	0
	1	0	0	1	0	1
20	0	0	1	0	0	1
25						
SUB-TOTALS	7	4	5	9	6	4

$\frac{35}{120} = \cancel{5.83}$ 0.29

INDUSTRIAL HYGIENE
SAMPLING

Date 3-15-73 Location - Bldg. 771 Room 100

CONTAMINANT Asbestos (Kaylo) Collected By Elliot & Bott

IDENTIFICATION

#1 15 min. (cutting) (Hackney)

#2 15 min. (Fitting) (Monin)

#3 15 min. (cutting) (Hackney)

#4 15 min. (Fitting) (Monin)

Sampling Equipment Used Personal Sampling Equip.

Operation being monitored Insulating Ethylene Oxide Reactor.

Asbestos Sampling
3-15-73 (AM)
Bldg 771 - Cell 100

Personell Samplers - Cellulose Acetate filters

Subject #1
John Hackney
Insulator Helper
2-15 min. Samples
Roto 2.0
Samples were taken while Mr Hackney was cutting + sawing joints of insulation.

Subject #2
J.R. Monin
Insulator
2-15 min samples
Roto 2.0
Samples were taken while Mr Monin was fitting + binding joints of insulation

Type of Insulation - Kaylo-10
~~Size - Different inside measurements Joints were all 3' Assorted sizes~~
Size - Assorted size

J. R. Moore
J. Hackney
(Pump)

Asbestos Sampling

Bldg 771 - Cell 100
3-15-73

Kayle - 10
1200°F
Asbestos Free
1 x 1 - 1/2
60 L.F.

Super pumper
Connect
Coole K-PH

~~Cutting~~
~~Filter~~

The cutting is done outside of cell under Roof - gusting wind Approx - 20 mph

Kayle - 10
1200°F
Asbestos
~~1 x 1 - 1/2~~

3-15-73
using Kayle 10? ~~Asbestos free~~ Bldg 771
no identification (asbestos material)
Rate - 2.0
J. Hackney - pump on 10 50 - off 11 05
(SAWing & Cutting with Knife)

2nd Filter for Hacking
10 08 on - off 1110 - 2
on 10 11 off 1114 3
on 10 15 off 11 18 3
on 11 19 off 11 21 2
on 11 28 off 11 33 5

I Monty 2.0 15 min

fitting
[illegible] Kaylo 10
with asbestos

II Monty 2.0 15 min

& Handling
fitting & ~~[illegible]~~

paper filter
respirator protection
worn

~~PRELIMINARY~~

AIR SAMPLING ~~REPORT~~

12/11/72

Building 771 - Cell 100

Contaminant Asbestos

Fibers per Milliliter

~~Date~~	Sampling Time	Flow Rate, lpm	~~Total micrograms~~	~~PPM~~	~~PPM Per 30 Min.~~	Location and Remarks
1	15 min.	2		10.8		Davis - Stripping
2	15 min.	2		9.04		Monin - Stripping
3	15 min	2		9.17		Davis - Stripping
4	15 min.	2		5.5		Monin - Stripping
	Wearing resp. protection per M.E. Req.					

Filters seemed to have been damp at some time or other

Signed Milliff

12/11/72
771 - Cell 100

(2) monty 1:23 pm Stripping 15 min. 2 gpm
1:38

(4)
1:40
1:55

(1) Ed - shovelling + stripping.
15 min @ 2 gpm

(3)

---

most dusting apparently from cement (dry mud) (Naylor [illegible])

UNION CARBIDE

INTERNAL
CORRESPONDENCE

UNION CARBIDE CORPORATION TECHNICAL CENTER
P.O. BOX 8361, SOUTH CHARLESTON, WV 25303

To (Name) A. F. Terry
Division 704
Location 511
Area

Date April 3, 1987

Originating Dept. EM&TS - HS&EA

Area Industrial Hygiene

Copy to C. P. Maxwell - 701/2
R. G. Rowe, M.D. - 791
C. L. Ruddle - 704
R. E. Sergent - 704

Subject Asbestos Exposure Monitoring

Attached are the results of the Asbestos exposure monitoring performed on J. W. Greenlee on March 20, 1987. He was monitored while stripping approximately 10 feet of Asbestos from a line in the Building 740 basement. He also stripped Asbestos tape from miscellaneous lines in salvage piles near Buildings 771 and 773.

He was equipped with an AOR57A Half-face HEPA cartridge respirator, 2 pair of coveralls with headcover, boots and gloves. Mr. Greenlee showered before going home.

The exposure monitoring results indicate that the levels were well below the 0.1 fiber/cc Action Level, established by OSHA for an 8-hour workday (TWA_8). The low level indicates that the established procedures are adequate and that they were followed closely.

Please notify J. W. Greenlee of his exposure monitoring results as soon as possible. Please have him sign and date this report and return to M. A. Patel at Building 701-330.

If we can be of further assistance, please call us on extension 4779 or 3750.

WORK BY:

Vance E. Stover

APPROVED BY:

Manhar A. Patel

Attachment

VES:MAP:rab
2216P

Comp. Ref. W2168

ASBESTOS EXPOSURE MONITORING

Date	Sample Type/ Employee Name	Sampling Time	Air Conc Fibers/cc	TWA_8 Fibers/cc	COMMENTS
3-20-87	Personal/ J. W. Greenlee	7hrs 16min	0.036	0.0327	Collected while stripping 10 feet of asbestos from a line using Glove Bags. He also stripped asbestos tape from lines in salvage piles, near Buildings 771 and 773.

ASBESTOS

Permissible Exposure Level

TWA_8	0.2 Fiber/cc	OSHA
Action Level	0.1 Fiber/cc	

2216P
rab

CONFIDENTIAL

INDUSTRIAL HYGIENE MONITORING FOR ASBESTOS

FILE COPY

TO: R. F. Painter, Trlr. 5583

Computer Ref. W1167
04/22/81

CC: C. W. Carman, 725-105 R. E. Peele, 701-334 E. J. Tawney, Trlr.5583
L. R. Noble, 511-2149 H. L. Robinson, 701-401
D. R. Paugh, 511-2009 E. C. Shipley, 511-2009

PERSON MONITORED J. F. Chandler

Location West end - Bldg. 773 Date 04/20/81
Outside at tank pad

EXPOSURE RESULTS

	Conc.	Sampling Time	Comments
Sample 1	fibers >5 <.1 μm/cm^3	78 minutes	A.M. - Stripping
2	fibers >5 <.1 μm/cm^3	125 minutes	P.M. - Stripping, bagging and cleanup
3			
4			
5			
6			

Time-Weighted Average Concentration (TWA) <.1 Fiber > 5 μm/cm^3

Ceiling Concentration

ALLOWABLE EXPOSURE

TWA	2 Fibers >5 μm/cm^3	(OSHA)	UCC	Other
Ceiling		OSHA	UCC	Other

COMMENTS

Insulator monitored while stripping approximately 100 feet of 1-1/2" pipe of suspected asbestos containing insulation. He wore coveralls and a disposable Norton dust respirator. The insulation was properly bagged and tagged for disposal at the landfill.

WORK BY Ruth Cline

APPROVED BY Marlan A. Pahl

CONFIDENTIAL

INDUSTRIAL HYGIENE MONITORING FOR ASBESTOS

FILE COPY

TO: R. F. Painter, Trlr. 5583

Computer Ref. W1167
04/22/81

CC: C. W. Carman, 725-105
L. R. Noble, 511-2149
D. R. Paugh, 511-2009
R. E. Peele, 701-334
H. L. Robinson, 701-401
E. C. Shipley, 511-2009
E. J. Tawney, Trlr. 5583

PERSON MONITORED D. C. Shamblin

Location West end - Bldg. 773
Outside at tank pad

Date 04/20/81

EXPOSURE RESULTS

	Conc.	Sampling Time	Comments
Sample 1	fibers >5 .1 μm/cm^3	85 minutes	A.M. - Stripping
2	fibers >5 .2 μm/cm^3	123 minutes	P.M. - Stripping, bagging and cleanup
3			
4			
5			
6			

Time-Weighted Average Concentration (TWA) .1 Fiber > 5 μm/cm^3

Ceiling Concentration

ALLOWABLE EXPOSURE

TWA 2 Fibers > 5 μm/cm^3 (OSHA) UCC Other

Ceiling OSHA UCC Other

COMMENTS

Insulator monitored while stripping approximately 100 feet of 1-1/2" pipe of suspected asbestos containing insulation. He wore coveralls and a disposable Norton dust respirator. The insulation was properly bagged and tagged for disposal at the landfill.

WORK BY Ruth Cline

APPROVED BY Manhar A. Patel

INDUSTRIAL HYGIENE MONITORING FOR ASBESTOS

FILE COPY

TO: W. T. Shelton, 704 Computer Ref. 1033

CC: G. F. Hurley
H. L. Robinson

PERSON MONITORED J. W. Greenlee

Location Bldg. 773 - First floor along north wall near operating area. Date 4/1/80

EXPOSURE RESULTS

	Conc.	Sampling Time	Comments
Sample 1	0.4	85 min.	A.M. - Stripping & bagging insulation
2	0.2	115 "	P.M. - " "
3			
4			
5			
6			

Time-Weighted Average Concentration (TWA) 0.1 fibers > 5 μm/cm^3

Ceiling Concentration

ALLOWABLE EXPOSURE

TWA	2 fibers > 5 μm/cm^3	(OSHA)	UCC	Other
Ceiling		OSHA	UCC	Other

COMMENTS

Approximately 48 feet of 3-inch condensate line was stripped of suspected asbestos containing insulation. The insulation was kept wet during the stripping. The insulator wore coveralls and a disposable 3M dust respirator. Stripped asbestos was placed in plastic bags for disposal.

WORK BY Ruth Cline

APPROVED BY George Hurley

AUDIT REPORT NO. WV-0053

FILE NO. 7

A T T E N T I O N

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Likewise, if the address of the document is changed, S. D. Conner should be notified. The File No. and Audit Report No. must be included in the correspondence.

INDUSTRIAL HYGIENE MONITORING FOR ASBESTOS

FILE COPY

TO: W. T. Shelton, 704 Computer Ref. 1033

CC: G. F. Hurley
H. L. Robinson

PERSON MONITORED R. E. Raines

Location Bldg. 773 - Along north wall near operating area. Date 4/1/80

EXPOSURE RESULTS

	Conc.	Sampling Time	Comments
Sample 1	0.2 fibers	86 min.	A.M. - Stripping & bagging insulatio
2	0.1 fibers	110 min.	P.M. - " "
3			
4			
5			
6			

Time-Weighted Average Concentration (TWA) 0.1 fibers > 5 μm/cm^3

Ceiling Concentration

ALLOWABLE EXPOSURE

TWA 2 fibers > 5 μm/cm^3 (OSHA) UCC Other

Ceiling OSHA UCC Other

COMMENTS

Stripped 48 feet of 3-inch condensate line of suspected asbestos containing insulation which was well wetted. Mr. Raines wore a 3M disposable dust repirator during the stripping and bagging. The stripped insulation was placed in plastic bags for disposal.

WORK BY Ruth Cline

APPROVED BY G. Hurley

UNION CARBIDE

INTERNAL CORRESPONDENCE

FILE COPY

CHEMICALS AND PLASTICS • P. O. BOX 8361, SOUTH CHARLESTON, WEST VIRGINIA 25303

(Name) Mr. W. T. Shelton
sion Building 704 Shop
ation

Date November 5, 1979

Originating Dept. Technical Center IH/EP

py to Mr. G. F. Hurley
Mr. G. C. Merz
Mr. M. E. Perry
Mr. H. L. Robinson

Subject Asbestos - Stripping Old Insulation

PROJECT

Survey for asbestos exposure of insulators stripping insulation from a 12-inch by 10-foot reactor column located on the north-west side of Building 773.

DATE OF SURVEY

November 2, 1979

SUMMARY AND CONCLUSIONS

Good judgement and proper housekeeping techniques by insulators kept the exposure to asbestos fibers at a minimum. The reactor insulation was wet down with a water spray can and dismantled with a minimum amount of handling. Coatings mechanics, Mr. Monin and Mr. Greenlee, wore 3M disposable dust masks, gloves, and coveralls. The stripped material was bagged and labeled for landfill.

The exposures were below the TWA of 2 fibers/cc and a ceiling value of 10 fibers/cc.

RESULTS

Location	Personnel	Sampling Time-Min.	Exposure Fibers/cc >5 μm
Building 773	J.R. Monin	46	0.4
Building 773	J.W. Greenlee	43	0.1

REFERENCES

Volume 38C-29X4-R1a Asbestos, Dust Determination By Membrane Filter Techniques Using Phase Contrast Microscopy

REPORT PREPARED BY

G. W. Bott
Technical Center Industrial Hygiene Group

G. W. Bott

APPROVED BY

G. Hurley
G. F. Hurley

GWB/sc

UNION CARBIDE

INTERNAL CORRESPONDENCE

FILE COPY

CHEMICALS AND PLASTICS • P. O. BOX 8361, SOUTH CHARLESTON, WEST VIRGINIA 25303

To (Name) Mr. D. H. Cook
Division Mr. R. F. Painter
Location Mr. H. L. Robinson
Mr. T. W. Souder
Copy to

Date January 9, 1979

Originating Dept Technical Center IH/EP

Subject Monitoring Insulators

PROJECT Monitoring insulators for asbestos exposure.

DATE OF SURVEY December 12 and 13, 1978

DISCUSSION Messrs. Brad Nester and Charlie Miller, Construction insulators, were monitored for asbestos exposure on December 12 and 13, while removing insulation from piping on the third level of Building 773. Both men wore respirators during the operations. On the first day only a small amount of water was applied to the insulation before removal to minimize the emission of airborne asbestos fibers. Personnel exposures were 2.8 and 1.3 fibers per cubic centimeters of air (f/cc) respectively. On the second day of monitoring, December 13, the insulation was thoroughly wetted with water before, during, and after removal. As a result, the air concentrations in the breathing zones of the insulators were reduced to 0.3 and 0.4 f/cc. The OSHA standard for an eight-hour exposure is 2.0 f/cc.

RECOMMENDATIONS As evidenced by this monitoring, it is essential that extra time be taken to thoroughly wet asbestos-containing insulation before, during, and after removal. For small stripping operations a portable garden water sprayer can be used.

REFERENCES UCC C/P Industrial Hygiene Method 38C-29X4-R1a
29CFR 1910.1001

DATA

Location: Building 773, third level

Date	Employee	Sampling Time	Air Conc. Fibers/cc
12/12/78	Brad Nester	0950-1038	2.8
12/12/78	Charlie Miller	0950-1038	1.3
12/13/78	Brad Nester	1335-1350	0.4
12/13/78	Charlie Miller	1335-1350	0.3

REPORT PREPARED BY

W. F. Blythe, Jr.
Technical Center Industrial Hygiene Group

W. F. Blythe Jr.

W. F. Blythe, Jr.

WFBJr/sc

UNION CARBIDE

INTERNAL
CORRESPONDENCE

IH FILE COPY

UNION CARBIDE CORPORATION TECHNICAL CENTER
P.O. BOX 8361, SOUTH CHARLESTON, WV 25303

To (Name) C. W. Wible
Division 770/162
Location 511
Area

Date July 15, 1987

Originating Dept. EM&TS - HS&EA

Area Industrial Hygiene

Copy to P. D. Gossage - 701/4
C. P. Maxwell - 701/2
R. G. Rowe, M.D. - 791
R. E. Sergent - 704

Subject Asbestos Exposure Monitoring

Attached are the results of the non-abatement asbestos exposure monitoring performed on J. A. Ingram and W. S. Ballingall while pulling computer cable above ceiling tile and through service shafts in Building 770. They were equipped with Half-face Willson R-12 HEPA filtered respirators.

The exposure monitoring indicates that the levels were well below the 0.1 fiber/cc Action Level, established by OSHA for an 8-hour workday (TWA_8). However, anyone working above or removing ceiling tile must continue to wear the protective equipment, mentioned above, until enough data is gathered to indicate a problem does not exist, whenever doing this type of work.

Please notify J. A. Ingram and W. S. Ballingall of their exposure monitoring results as soon as possible. Please have them sign and date this report and return to M. A. Patel at Building 701-330.

If we can be of further assistance, please feel free to call us on extension 4779 or 3750.

WORK BY:

Vance E. Stover

APPROVED BY:

Manhar A. Patel

Attachment
VES:MAP:rab
2488P

Comp. Ref. W2236

ASBESTOS EXPOSURE MONITORING

Date	Sample Type/ Employee Name	Sampling Time	Air Conc. Fibers/cc	TWA_8 Fibers/cc	COMMENTS
7-2-87	Personal/ J. A. Ingram	7hrs 3 min	0.0375	0.033	Collected while pulling computer cable above ceiling tile and inside of service shafts in Building 770. Job took approx. 4 hours to complete.
7-2-87	Personal/ W. S. Ballingall	6hrs 56min	0.0148	0.0128	Collected while pulling computer cable above ceiling tile and inside of service shafts in Building 770. Job took approx. 4 hours to complete.

ASBESTOS
Permissible Exposure Level

TWA_8	0.2	fibers/cc	OSHA
Action Level	0.1	fibers/cc	

2488P

UNION CARBIDE

INTERNAL
CORRESPONDENCE

IN FILE COPY

UNION CARBIDE CORPORATION TECHNICAL CENTER
P.O. BOX 8361, SOUTH CHARLESTON, WV 25303

To (Name) L. A. Kapicak
Division 770-240
Location 511
Area

Date October 29, 1986
Originating Dept EM&TS - HS&EA
Area Industrial Hygiene
Subject Asbestos Area Monitoring

Copy to C. P. Maxwell - 701/256
R. E. Sergent - 704/2
P. D. Sherman - 701/254
P. H. Wadia - 770/304

Attached are the monitoring results of the Asbestos Area samples collected in 770-137 on October 23, 1986. The samples were collected to determine the level of airborne fibers present in this lab. Insulators had cleaned, from the floor area, Asbestos containing materials the evening of October 22, 1986.

The samples when counted did not show fiber count any greater then the blank samples and therefore, the results are well below the 0.1 fiber/cc action level, established by OSHA for an 8-hour workday.

If we can be of further assistance, please call us on extension 4779 or 3750.

WORK BY:

Vance E. Stover

APPROVED BY:

Manhar A. Patel

Attachment

VES:MAP:rab
1837P

ASBESTOS AREA MONITORING

Comp. Ref. W2069

Date	Sampling Time	Air Conc. fibers/cc	COMMENTS
10-23-86	7 hrs 28 min.	< 0.003	Collected at the face of the hood behind J. Winkler's desk and very near the point where the Asbestos was lying on the floor.
10-23-86	7 hrs 29 min.	< 0.003	Collected on top of J. Winkler's desk.
10-23-86	7 hrs 24 min.	< 0.003	Collected near the double doors that enter the hallway.

ASBESTOS

Permissible Exposure Level		
TWA_8	0.2 fiber/cc	OSHA
Action Level	0.1 fiber/cc	

1837P

UNION CARBIDE

INTERNAL
CORRESPONDENCE

[illegible] COPY

UNION CARBIDE CORPORATION TECHNICAL CENTER
P.O. BOX 8361, SOUTH CHARLESTON, WV 25303

BUSINESS CONFIDENTIAL

To (Name): A. F. Terry
Division: 704 Shop
Location: 511
Area:

Copy to: C. P. Maxwell
R. G. Rowe, M.D.
C. L. Ruddle
R. E. Sergent

Date: July 24, 1986

Department: HS&EA

Area: Industrial Hygiene

Subject: Asbestos Exposure Monitoring

Attached are the results of the Asbestos monitoring done in Building 770 on June 23, 1986. R. E. Raines and R. P. Hess were monitored while they removed approximately 15 feet of Asbestos from a steam line inside of the S-5 air handler during off-hours. They were equipped with disposable coveralls, boots, disposable dust mask, gloves and head cover.

The air handler was shut down and the area was barricaded. Plastic was put on the floor, under the steam line, and excess water was used for wetting down the insulation. The Asbestos insulation, as well as the plastic was removed very diligently. The floor was flooded with water and vacuumed.

The sample results show that for the very short sampling time, the potential exposure to Asbestos was low. If it was averaged over an 8-hour period, it would be well below the permissible exposure level of 2 fiber/cc of air. An 8-hour average was not established because both R. E. Raines and R. P. Hess indicated that they worked with insulation, that may have contained Asbestos, earlier in the day before this job was done.

Please inform R. E. Raines and R. P. Hess of their exposure results and if we can be of further assistance, please call us on extension 4779 or 3750.

WORK BY:

Vance E. Stover

APPROVED BY:

Manhar A. Patel

VES/jac
1512P

ASBESTOS EXPOSURE MONITORING

Date	Sample Type Employee Name	Sampling Time	Air Conc Fibers/cc	TWA_8 Fibers/cc	Comments
6-23-86	Personal/ R.E. Raines	59 min	0.928	-------	Collected while removing and bagging 15 feet of Asbestos from 770-S-5 Air Handler
6-23-86	Personal/ R. P. Hess	58 min	1.35	--------	Collected while removing and bagging 15 feet of Asbestos from 770-S-5 Air Handler
6-23-86	Area	1 hr 3 min	0.420	--------	Collected inside of Air Handler about waist high setting on precipitron.

Asbestos

Permissible Exposure Levels*

TWA_8 2 fibers/cc OSHA
Ceiling 10 fibers/cc

* OSHA Guidelines in effect at time of monitoring.

1512P

INDUSTRIAL HYGIENE MONITORING FOR: ASBESTOS

FILE COPY

UNION CARBIDE BUSINESS CONFIDENTIAL

Computer Ref: W-1500
Date: Nov. 18, 1983

To: W. T. Shelton, 704 SHop

cc: R. E. Peele, 701-334
R. G. Rowe, M.D., 791

PERSON MONITORED: J. W. Greenlee

LOCATION: 770 Fan Room Date: 11/8/83

EXPOSURE RESULTS

Sample No.	Conc.	Sampling Time	Comments
1	0.29 fibers/cc	134 Minutes	Personal sample
2	0.06 fibers/cc	23 Minutes	Area sample
3	0.03 fibers/cc	97 Minutes	Area sample
4	0.05 fibers/cc	97 Minutes	Area sample

Time-Weighted Average Concentration (TWA): -
Ceiling Concentration: -

ALLOWABLE EXPOSURE

TWA:	.5 fibers/cc	_X__OSHA	____UCC	____Other
Ceiling:	-	____OSHA	____UCC	____Other

COMMENTS

Personal and area samples were collected while Mr. Greenlee stripped insulation from a steam line in Building 770 Fan Room. The line was located on S-5 precipitron. Mr. Greenlee stripped six feet of insulation from a two-inch steam line outside the precipitron and twenty feet of insulation from the line inside the precipitron. Mr. Greenlee wore a respirator, gloves, paper suit and hood while performing his work and during the cleanup operation. The area was barricaded and a sign posted. Please inform IH Department of the next stripping job in this area and inform Mr. Greenlee of his exposure. Please note the change in OSHA standard from 2 fibers/cc to .5 fibers/cc.

WORK BY: Mark E. Bell
Mark E. Bell

APPROVED BY: Manhar A. Patel
Manhar A. Patel

CARBIDE CONFIDENTIAL

FILE COPY

INDUSTRIAL HYGIENE MONITORING FOR ASBESTOS

Computer Ref. W-1207

Date July 30, 1981

TO: W. T. Shelton, 704 Shop

cc: R. E. Peele, 701-334
H. L. Robinson, 701-401

PERSON MONITORED J. W. Greenlee

Location Bldg. 770-137 Date 07/24/81

EXPOSURE RESULTS

Sample No.	Conc.	Sampling Time	Comments
1	fibers .3 >5 μm/cm^3	52 Minutes	Insulator stripping approx. 60 feet of insulation from a 1/2-inch steamline.
2			
3			
4			
5			
6			

Time-Weighted Average Concentration (TWA) < .1 fibers > 5 μm/cm^3

Ceiling Concentration -

ALLOWABLE EXPOSURE

TWA	2 fibers > 5 μm/cm^3	X OSHA	___UCC	___Other
Ceiling		___OSHA	___UCC	___Other

COMMENTS

The 52 minutes sampling time represents the total job.

WORK BY Ruth Clise
Ruth Clise

APPROVED BY Manhar A. Patel
Manhar A. Patel

CARBIDE CONFIDENTIAL

INDUSTRIAL HYGIENE MONITORING FOR ASBESTOS

FILE COPY

Computer Ref. W-1207

TO: W. T. Shelton, 704 Shop

Date July 30, 1981

cc: R. E. Peele, 701-334
H. L. Robinson, 701-401

PERSON MONITORED J. R. Monin

Location Bldg. 770-137 Date 07/24/81

EXPOSURE RESULTS

Sample No.	Conc.	Sampling Time	Comments
1	.7 fibers >5 μm/cm^3	51 Minutes	Insulator bagging stripped insulation.
2			
3			
4			
5			
6			

Time-Weighted Average Concentration (TWA) < .1 fibers > 5 μm/cm^3

Ceiling Concentration -

ALLOWABLE EXPOSURE

TWA	2 fibers > 5 μm/cm^3	X OSHA	___UCC	___Other
Ceiling		___OSHA	___UCC	___Other

COMMENTS

The 51 minutes sampling job represents the complete job.

WORK BY Ruth Clise
Ruth Clise

APPROVED BY Manhar A. Patel
Manhar A. Patel

UNION CARBIDE

INTERNAL CORRESPONDENCE

FILE COPY

CHEMICALS AND PLASTICS • P. O. BOX 8361, SOUTH CHARLESTON, WEST VIRGINIA 25303

(Name) Mr. W. T. Shelton
vision Building 704-Shop
cation

Date March 26, 1980

Originating Dept. Technical Center IH/EP

Subject Asbestos Monitoring in Building 770

opy to Ms. M. M. Gilbert
Mr. M. E. Perry
Mr. H. L. Robinson
Dr. F. G. Young

PROJECT

Monitor exposure of insulators to asbestos during the removal of insulation tape from tubing in Room 237 of Building 770.

DATE OF SURVEY

March 19, 1980

DISCUSSION

Services insulators R. E. Raines and J. W. Greenlee wore personal samplers while removing asbestos tape from various lines in Room 237 of Building 770. An area sample was also taken on a desk in the northwest corner of the room. Due to asbestos tape's disinclination to emit airborne asbestos fibers, the tape was not wetted with water during removal. However, respirators were worn and the area was barricaded in accordance with OSHA regulations. All samples indicated concentrations of less than 0.1 fibers/cubic centimer of air (f/cc).

The current OSHA standard sets a ceiling limit for a 15-minute exposure of 10 f/cc and a limit of 2 f/cc for an eight-hour time-weighted average exposure. Further monitoring of asbestos tape removal will not be required.

REPORT PREPARED BY

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