UNION CARBIDE

INTERNAL CORRESPONDENCE

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

To (Name) Mr. J. W. Biddle
Division Mr. C. W. Carman
Location Mr. G. F. Hurley
Mr. L. R. Noble
Copy to Mr. D. Paugh
Mr. C. E. Richardson

Date June 2, 1977
Originating Dept. IH/EP
Subject Asbestos Insulation

INTRODUCTION

We were notified that asbestos insulation would be stripped from the dust collector on #2 boiler at the Institute Plant.

DISCUSSION

The area around the dust collector was isolated by ropes and warning signs were visable. Water was used to help control dust. The 3M disposable dust mask was used by all employees in the controlled area.

Air samples were taken to evaluate levels of asbestos dust in the air.

RESULTS

DATE	NAME	TIME	AREA	CONCENTRATION FIBERS/CC
5/26/77	----	0845-0900	Area Sample ~5' Upwind, ~6' High	.05
5/26/77	----	0902-1035	Area Sample ~5' Downwind, ~6' High	.63
5/26/77	Day	0935-1035	Personal Sample Scaffold-Stripping Insulation	2.44

DATE	NAME	TIME	AREA	CONCENTRATION FIBERS/CC
5/26/77	Hall	0935-1035	Personal Sample Scaffold-Stripping Insulation	1.78
5/26/77	----	1040-1102	Area Sample ~50' Upwind, 3' High	.06

CONCLUSIONS

One sample exceeded the Threshold Limit Value of two fibers/cc by a small amount. In some areas the employees were lax in using water to wet the insulation. Better control could have been achieved if more water was applied.

Several of the employees were not wearing the respiratory protection properly. In the use of the 3M mask, a proper face seal is essential. Both straps of the mask must be used and they must be properly positioned on the back of the head. The principles of the masks use covered in the training sessions must be applied in the field to assure adequate protection.

METHOD

Samples were counted in accordance with the NIOSH Method for Sampling Evaluation of Airborne Asbestos Dust.

Please contact us if we can provide any additional assistance.

Best regards,

J. P. Gregory

JPG/mar

UNION CARBIDE

INTERNAL CORRESPONDENCE

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

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JPG/mar

29X(2)

UNION CARBIDE INTERNAL CORRESPONDENCE

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

o (Name) Mr. A. S. Howard
ivision Mr. D. R. Paugh
ocation Mr. H. L. Reveal
Mr. E. C. Shipley

opy to Mr. J. W. Biddle
Mr. C. W. Carman
Mr. G. F. Hurley
Mr. L. R. Noble
Mr. F. Williams

Date August 25, 1977

Originating Dept. IH/EP

Subject Asbestos Monitoring at Institute

Gentlemen:

On August 15, 1977, air samples were taken during the removal of insulation possibly containing asbestos from the breech work at the powerhouse at Institute. Two insulators wore personal sampling pumps during the operation. Also, an area sample was taken twenty feet downwind from the job. The area sample indicated a concentration of 0.48 fibers/cubic centimeters while the personal samples indicated concentrations of 2.59 and 2.61 fibers/cubic centimeter. These concentrations are higher than the current OSHA eight-hour, time-weighted average of two fibers/cubic centimeter of air. Therefore, respiratory protective equipment must be worn in the area. Several workers were not wearing respirators at the time the samples were taken. Although water hoses were used to wet the insulation before and during removal, some insulators were working ahead of the water hoses and stirring up clouds of dust. Wetting with water significantly reduces emission of airborne dust when properly used.

The above air samples were sampled and analyzed by phase-contrast microscopy using Union Carbide Corporation, Chemicals and Plastics Industrial Hygiene Handbook Method Number 38C-29X4-R1a. This method is identical to the procedures used by NIOSH, the organization responsible for developing methods specified by OSHA.

If we can provide additional assistance, please contact us.

W. F. Blythe, Jr.

W. F. Blythe, Jr.

WFBJr/mac

Attachment

DATE	EMPLOYEE	SAMPLING TIME (MINUTES)	CONCENTRATION FIBERS/CC	TWA FIBERS/CC
08/15/77	R. P. Williams	1032 - 1115 (43)	2.59	2.59
08/15/77	W. G. Adkins	1033 - 1115 (42)	2.61	2.61
08/15/77	Area Sample	1045 - 1118 (33)	0.48	---

UNION CARBIDE

INTERNAL
CORRESPONDENCE

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

To (Name) W. L. Browning
Division J. W. Perry, Jr.
Location Institute Plant
Area

Date October 23, 1981

Originating Dept IH/EP

Area

Copy to C. W. Carman
M. L. Mills
L. R. Noble
D. R. Paugh
R. E. Peele
H. H. Frazier
R. J. Sexton, M.D.
F. Williams

Subject Asbestos Monitoring in Gasket Shop, 512 Construction

Gentlemen:

In my letter of October 20, 1981, concerning asbestos monitoring in the Gasket Shop - 512 Construction, an error was made due to misinterpretation of the data we received from the 512 Industrial Hygiene group. Please replace the letter dated October 20, 1981 from your file with the one attached to this note.

Very truly yours,

Manhar A. Patel

Manhar A. Patel

MAP/sc

Attachment

INTERNAL
CORRESPONDENCE

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

To (Name) W. L. Browning
Division J. W. Perry, Jr.
Location Institute Plant
Area

Date October 23, 1981

Originating Dept IH/EP

Area

Cc, to C. W. Carman
M. L. Mills
L. R. Noble
D. R. Paugh
R. E. Peele
H. H. Frazier
R. J. Sexton, M.D.
F. Williams

Subject Asbestos Monitoring in Gasket Shop, 512 Construction

(Replaces letter of October 20, 1981 - front page only.)

Gentlemen:

Attached are the results of the area and personal exposure monitoring done for asbestos in the Gasket Shop - laundry, Building 3 of the Construction Department, Institute Plant. This monitoring was done by the Institute Plant Industrial Hygiene group on October 2, and 9, 1981.

The gasket cutting is done infrequently and it would generally last for a short period of time. The results of the survey indicate that the asbestos exposure in excess of the permissible limit of 2 fibers per centimeter cube of air did not occur.

The workers did not wear a respiratory protective device while working with the gasket material. It is emphasized that all workers wear a disposable 3M #8710 dust respirator which is approved by NIOSH for protection from asbestos exposure. Please notify the monitored workers of their exposure results.

If I can be of further assistance, please give me a call at extension 3750.

Very truly yours,

Manhar A. Patel

Manhar A. Patel

MAP/sc
Attachment

UNION CARBIDE
SINESS
ONFIDENTIAL

ASBESTOS MONITORING CONSTRUCTION GASKET SHOP

INSTITUTE PLANT

#	Name/Area Monitored	Date	Sampling Time Minutes	Asbestos Conc. Fibers >5 $\mu m/cm^3$
1	F. M. Hatfield	10/2/81	18	< 0.1
2	3 Feet from cutting blade	10/2/81	17	< 0.1
3	F. M. Hatfield	10/9/81	15	0.4
4	3 Feet from cutting blade	10/9/81	15	0.2

UNION CARBIDE

INTERNAL
CORRESPONDENCE

BUSINESS CONFIDENTIAL

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

(Name) R. C. Proffitt
(Loc) 511-2009
(Dept) 512

Date June 21, 1983

Originating Dept 511 Industrial Hygiene/
Environmental Protection

Area

To M. E. Bell
C. W. Maxwell
M. L. Mills
L. R. Noble
D. R. Paugh
R. E. Peele
A. L. Postlethwait
W. F. Williams

Subject Asbestos Monitoring in Storeroom, 511 Construction Department

Dear Mr. Proffitt:

On May 9, 1983, the Technical Center Industrial Hygiene group conducted a monitoring survey for determining the exposure of employees to asbestos dust particles while handling asbestos containing gaskets in the storeroom at the 512 Construction Department. This work was done by M. E. Bell of our group.

Mr. J. H. White was monitored for asbestos exposure when he received one hundred asbestos spiral-wound gaskets in three bundles. During the monitoring period, Mr. White removed these gaskets from the box, counted and placed them in a storage bin in the storeroom. Mr. White wore a dust respirator approved for asbestos while performing the job. In addition to the personal sample, an area sample was also collected. The results of monitoring shown in the attachment indicate that exposure to asbestos fibers above the permissible exposure limit of 2 fiber/cc are unlikely.

It is our observation that while unpacking and placing gaskets in the bin the probability of exposure is minute; however, it is believed that once the gaskets are stored in the bin some dust will become loose due to friction and may build up over a period of time. We recommend that the gasket storage bin be cleaned once every month. The person cleaning the bin should wear a dust respirator. The method of cleaning the bin should be wet. The easiest way would be to rinse the bin with water in the sink.

Please notify Mr. White of his exposure results. If we can

be of further assistance, please call us at extension 3750.

Very truly yours,

Manhar A. Patel

Manhar A. Patel

MAP/sc

Attachment

UNION CARBIDE BUSINESS CONFIDENTIAL

ASBESTOS SAMPLING

May 9, 1983

	Name or Location	Sampling Time (Mins)	Concentration Fibers/cc
1.	J. H. White	10	0
2.	Area Sample	9	< .07

The permissible exposure limit is 2 fibers > 5 μm/cc of air

UNION CARBIDE

INTERNAL
CORRESPONDENCE

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

To (Name) G. W. Phares
Division
Location
Area

Date November 22, 1985

Originating Dept HS&EA

Area Industrial Hygiene

Copy to B. H. Avashia, M.D.
J. H. Barna
J. A. Byrd
T. L. Collins
W. V. Filipek
C. P. Maxwell
M. L. Mills
L. R. Noble
D. R. Paugh

Subject Asbestos Monitoring at South Charleston Plant

Attached are the results of asbestos exposure monitoring conducted on November 18, 1985 at the South Charleston polyols unit near Building 103. Construction employees stripped the insulation from a tank 13 feet in diameter and 30 feet tall.

The stripping and bagging was done by eight men, four were monitored. One man was monitored at the base of the tank while receiving and removing the bags of asbestos as they were lowered from the scaffold. A spray of water was used to wet the insulation and minimize dust. The area was barricaded and well posted for the asbestos hazard. All nine employees wore disposable respirators, disposable head covers, disposable coveralls, boots and solvex gloves. The protective equipment was removed upon leaving the barricaded area and used new equipment upon returning.

All samples were found to be well below the allowable exposure level of 2 fibers/cm^3. This indicates that a good job is being done of controlling the amount of airborne dust by water spray, and bagging at the point of removal.

Please notify all employees of their exposure results. If we can be of further assistance, please contact us on extension 4779 or 3750.

WORK BY: Vance Stover

APPROVED BY: Manhar A. Patel

0763P

ASBESTOS MONITORING AT SOUTH CHARLESTON PLANT

Date	Name/Location	Sampling Time Minutes	Air Conc. (Fibers/cc)	8 Hr-TWA (Fibers/cc)	Comments
11-18-85	R. L. Pauley	445	0.055	0.051	Monitored while stripping and bagging asbestos insulation.
11-18-85	K. A. Neal	448	0.112	0.105	" "
11-18-85	J. C. Teetor	442	0.233	0.215	" "
11-18-85	T. W. King	436	0.252	0.229	" "
11-18-85	C. R. Brown	443	0.083	0.077	Monitored while receiving and removing bags after being lowered from scaffold.

Computer reference W 1856

0763P

UCC 016691

UNION CARBIDE

INTERNAL
CORRESPONDENCE

RECEIVED
NOV 25 1985
SAFETY DEPT.

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

To (Name) G. W. Phares
Division
Location
Area

Date November 22, 1985

Originating Dept. HS&EA

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Copy to:
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J. H. Barna
J. A. Byrd
T. L. Collins
W. V. Filipek
C. P. Maxwell
M. L. Mills → Looks like they are doing a good job Please file MLM
L. R. Noble
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