PLAINTIFF'S EXHIBIT
UC-456

UNION CARBIDE | INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS — INSTITUTE PLANT — P. O. BOX 8361, CHARLESTON, WEST VIRGINIA 253.

To (Name) Mr. D. D. Miller
Division Building 8349
Location Institute Plant

Date July 21, 1978

Originating Dept. ER-Industrial Hygiene

Copy to Mr. D. R. Morgan
Mr. F. Williams

Subject Asbestos Demolition Monitoring Results - Tank 4621

PLEASE PROMPTLY CONVEY
THESE MONITORING RESULTS
TO THE PLANT MANAGEMENT

Employees of Allied Insulating Service were involved in the removal of asbestos containing insulation from Tank 4621 during July 10 and 11 of this year. The material was old block KAYLO which was partially water saturated from breaks in the protective cover and the employees used reasonable care in wetting the sidewall material prior to the removal process.

This job was generally performed according to the prescribed standards in that adequate wetting was ensured, signs were in place, area was marked with barricade tape and the employees wore 3M dust respirators. The current threshold limit value (TLV) for asbestos is 2 fibers per ml of air and when proper care is not taken the TLV will most likely be exceeded.

The following data indicates the amount of fibers which were airborne and subject to being inhaled had the employees not worn respirators. Although they would not have been overexposed they should be encouraged to wear the respirators under these conditions because in addition to asbestos fibers there were also glass wool and other unidentified particulates.

Date	Name/Type Sample	Fiber Count/ ml Air	Comment
7/10/78	Area	2.2	SE of Tank 4621
7/10/78	Area	1.7	SW of Tank 4621
7/10/78	D. E. Taylor	1.3	Stripping blocks and cover
7/10/78	R. R. Horn	1.3	Stripping blocks and cover
7/10/78	R. R. Horn	1.1	Moving cover material to dumpster
7/10/78	L. R. Clark	1.2	Moving cover material to dumpster
7/10/78	Area	0.1	At 6' near dumpster
7/11/78	Area	0.1	6' from removal area
7/11/78	T. C. Hammons	0.8	Shovel and removal of wet blocks
7/11/78	R. R. Horn	0.6	Shovel and removal of wet blocks

Please call us on other occasions when large demolition jobs are in progress for inspection, even though we may not collect samples.

H. H. Frazier

H. H. Frazier

AU4065

UNION CARBIDE

INTERNAL CORRESPONDENCE

~~[illegible]~~
FRED

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

To (Name) Mr. A. S. Howard
Division Mr. D. R. Paugh
Location Mr. H. L. Reveal
Mr. E. C. Shipley

Copy 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

RECEIVED
AUG 29 1977
FRED WILLIAMS

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.

AU4061

W. F. Blythe, Jr.

WFBJr/mac

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	---