



INTERNAL
CORRESPONDENCE

PLAINTIFF'S EXHIBIT

UC-2778

UNION CARBIDE CORPORATION TECHNICAL CENTER

P.O. BOX 8361, SOUTH CHARLESTON, WV 25303

To (Name)	H. E. Rucker	Date	January 7, 1987
Division	2009	Originating Dept.	EM&TS - HS&EA
Location	512	Area	Industrial Hygiene
Area		Subject	<u>Asbestos Exposure</u> <u>Monitoring</u>
Copy to	B. H. Avashia, M.D. - 23 J. W. Barna - 2009/6 W. L. Browning - 2009 C. P. Maxwell - 701/2 B. R. McMakin - 2009 F. R. Sunderland - 2009		

Attached are the results of the exposure monitoring performed on seven insulators and one laborer while stripping Asbestos from a two-inch pipe. The pipe was located in a pipe rack across the road from the #1 powerhouse inside the Institute plant.

All employees were equipped with either an AOR57A or Willson R12 half-face HEPA cartridge respirator. They were also equipped with 2 pair of coveralls, boots, headsock and gloves. Each employee indicated that they were wearing no street clothes under the coveralls, and that each showered or would shower before leaving the work place.

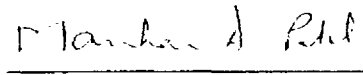
The OSHA established Permissible Exposure Level of 0.2 fibers/cc, for an 8-hour workday (TWAg), was not exceeded. However, the Action Level of 0.1 fiber/cc, also established by OSHA, was exceeded on 2 samples. The Area samples indicate no problem with airborne fibers getting outside of the barricaded area. We continue to urge strict adherence to the proper removal procedures and very careful handling, in order to keep the exposure potential at a minimum.

Please inform all employees of their exposure monitoring results as soon as possible. Please have each sign and date this report and return to M. A. Patel at Building 701-330. If you have any questions or if we can be of further assistance, please feel free to call us on extension 4779 or 3750.

WORK BY:

APPROVED BY:


Vance E. Stover


Manhar A. Patel

Attachment
VES:MAP:rab
1993P

UCC 024793

ASBESTOS EXPOSURE MONITORING

<u>Date</u>	<u>Sample Type/ Employee Name</u>	<u>Sampling Time</u>	<u>Air Conc. Fibers/cc</u>	<u>TWAg Fibers/cc</u>	<u>Job Classi- fication</u>	<u>COMMENTS</u>
12-16-86	Personal/ W. S. Thompson	4hrs 24min	0.062	*	Insulator	Collected while removing approx. 4 feet of Asbestos using BWE 5000.
12-16-86	Personal/ S. R. Erskine	4hrs 23min	0.037	*	Insulator	Collected while removing approx. 4 feet of Asbestos using BWE 5000.
12-16-86	Personal/ C. B. Clendenin	-	-	*	Insulator	Voided - could not find respirator to fit - did not work on this job on this day.
12-16-86	Personal/ T. K. Miller	-	-	*	Insulator	Voided - Pump fell into trench containing water.
12-16-86	Personal/ R. A. Edwards	4hrs 7min	0.0164	*	Laborer	Collected while cleaning dropped Asbestos, retrieving bags, etc.
12-16-86	Area	4hrs 14min	< 0.0025	-	-	Collected downwind approx. 15-20 feet from the barricade tape - West end.
12-16-86	Area	4hrs 10min	< 0.0037	-	-	Collected approx. 15-20 feet from the East barrier - downwind.

*A TWAg was not calculated because it was not known if they had Asbestos exposure before this monitoring period.

ASBESTOSPermissible Exposure Level

TWAg	0.2 fibers/cc	OSHA
Action Level	0.1 fiber/cc	

ASBESTOS EXPOSURE MONITORING

<u>Date</u>	<u>Sample Type/ Employee Name</u>	<u>Sampling Time</u>	<u>Air Conc. Fibers/cc</u>	<u>TWAg Fibers/cc</u>	<u>Job Classi- fication</u>	<u>COMMENTS</u>
12-18-86*	Area	6hrs 31min	<0.0038	-	-	Collected on south side of barricade near roadway - wind swirling.
12-18-86	Area	6hrs 23min	<0.0038	-	-	Collected on north side of barricade near tank - wind swirling.
12-18-86	Personal/ T. K. Miller	6hrs 18min	0.078	0.061	Insulator	Collected while stripping approx. 125-150 feet of Asbestos from a 2 inch line.
12-18-86	Personal/ J. R. Menninger	6hrs 48min	0.040	0.034	Insulator	Same as previous sample.
12-18-86	Personal/ R. A. Edwards	6hrs 44min	0.056	0.047	Laborer	Cleaned and bagged Asbestos dropped to ground level under piperack.
12-18-86	Personal/ D. R. Samples	6hrs 36min	0.047	0.038	Insulator	Collected while stripping approx 150 feet of Asbestos.

*Water was used as wetting agent for entire day.

ASBESTOSPermissible Exposure Level

TWAg 0.2 fibers/cc OSHA
Action Level 0.1 fiber/cc

ASBESTOS EXPOSURE MONITORING

<u>Date</u>	<u>Sample Type/ Employee Name</u>	<u>Sampling Time</u>	<u>Air Conc. Fibers/cc</u>	<u>TWAg Fibers/cc</u>	<u>Job Classi- fication</u>	<u>COMMENTS</u>
12-17-86*	Area	6hrs 55min	< 0.0028	-	-	Collected just downwind of the East barrier approx 10-15 feet from pipe rack.
12-17-86	Area	6hrs 58min	0.013	-	-	Collected downwind near the west barrier - but outside - pump was located on top of fire hose cabinet.
12-17-86	Personal/ W. S. Thompson	6hrs 39min	0.166	0.138	Insulator	Collected while stripping approx. 125-150 feet of Asbestos from a 2 inch line using BWE 5000 as wetting agent.
12-17-86	Personal/ C. B. Clendenin	6hrs 48min	0.0664	0.0564	Insulator	Same as previous comment.
12-17-86	Personal/ R. A. Edwards	6hrs 30min	0.0328	0.027	Laborer	Cleaned up and bagged Asbestos that dropped to the ground.
12-17-86	Personal/ M. S. Farmer	6hrs 29min	0.171	0.139	Insulator	Cleaned up and bagged Asbestos that dropped to the ground.

* BWE 5000 was used as wetting agent for entire day.

ASBESTOSPermissible Exposure Level

TWAg 0.2 fibers/cc OSHA
Action Level 0.1 fiber/cc

1993P
rab