



INTERNAL
CORRESPONDENCE

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

To (Name) Frank Sunderland

Date March 4, 1986

Location

Organizing Dept. HS&EA

Location

Area Industrial Hygiene

Area

Copy to B. H. Avashia, M.D.

Subject Asbestos Monitoring
Institute Plant

J. H. Barna

M. R. Gandee

C. P. Maxwell

B. R. McMakin

M. L. Mills

Attached are the results of the personal monitoring for Asbestos, conducted at the Institute plant, No. 1 Powerhouse. The monitoring was done over 3 days, the time needed to completely strip a precipitator hopper. The insulation had chicken wire around the outer surface, which had to be removed before stripping.

The stripping was done by the Insulators and the clean-up and bagging was performed by one laborer. Water was used to wet the insulation before, during and after the stripping. The area was barricaded and signs were posted for the potential asbestos hazards. All employees wore half-face respirators equipped with dust cartridge, disposable coveralls, boots, gloves and a spray sock for head covering. The protective clothing was removed upon leaving the barricaded area and new clothing was used before returning.

The results show that the action level of 1 fiber/c.c. was exceeded on 5 of the 7 personal samples collected on the insulators, but did not exceed the permissible level of 2 fibers/c.c. for an 8-hour shift. The samples collected on [REDACTED] laborer, were all below the action level. A Time Weighted Average was determined for all sampling results, based on the knowledge that none of the employees had any exposure to asbestos before or after the monitoring period.

Based on the monitoring results, more water has to be used to saturate the insulation, including directing a water spray at the wire while it is being pulled off, to reduce the airborne fibers. We also require the continued use of the personal protective equipment and the changing of the dust cartridges at the end of each shift.

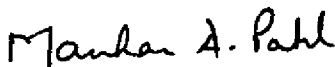
March 4, 1986

Please notify all employees of their exposure results and 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
1073P

Computer Ref. W1901
W1902
W1903

PERSONAL EXPOSURE MONITORING FOR ASBESTOS AT INSTITUTE PLANT

<u>Date</u>	<u>Employee Name</u>	<u>Sampling Time</u>	<u>Air Conc. fibers/cc</u>	<u>TWAg fibers/cc</u>	<u>Comments</u>
2-19-86	[REDACTED]	1 hr. 59 min.	3.73	0.925	Insulators: personal samples collected while stripping approximately 100 ft ² of asbestos from a hopper.
2-19-86	[REDACTED]	1 hr. 57 min.	1.97	0.480	
2-19-86	[REDACTED]	1 hr. 50 min.	4.42	1.01	
2-19-86	[REDACTED]	1 hr. 40 min.	0.24	0.05	Laborer: personal sample collected while cleaning up and bagging asbestos.
2-20-86	[REDACTED]	6 hrs. 41 min.	1.245	1.04	Personal sample collected while stripping approx. 75 ft ² of asbestos from hopper.
2-20-86	[REDACTED]	6 hrs. 42 min.	0.21	0.176	Personal sample collected while cleaning up and bagging approx. 75 ft ² of asbestos.
2-20-86	[REDACTED]	6 hrs. 38 min.	1.289	1.069	Personal sample collected while stripping approx. 75 ft ² of asbestos from hopper.
2-21-86	[REDACTED]	4 hrs. 13 min.	1.943	1.024	Personal sample collected while stripping approx. 25 ft ² of asbestos from the bottom of the hopper - next floor down - very confined.
2-21-86	[REDACTED]	4 hrs. 7 min.	0.429	0.221	Personal sample collected while cleaning up and bagging approx. 25 ft ² from bottom of hopper.
2-21-86	[REDACTED]	4 hrs. 8 min.	1.942	1.003	Personal sample collected while stripping approx. 25 ft ² of asbestos from bottom of hopper.