PLAINTIFF'S EXHIBIT

UC-2928

INDUSTRIAL HYGIENE RESULTS

DATE: July 14, 1983.

PROJECT: Measure insulator exposure to airborne asbestos fibers while removing asbestos containing insulation in several areas of the plant.

DATE OF SAMPLES: 6-10-83, 6-14-83, 6-16-83, 6-17-83, 6-20-83, 6-21-83. Analysis received 7-11-83

SUMMARY: The maximum airborne asbestos concentration measured 3.41 fibers/cc during a monitoring period of 10 minutes, while the craftsman removed insulation from piping associated with K-2 at the 4th level of Polymers I. Other monitoring results covered a range of 0.11 to 1.49 fibers/cc for monitoring periods up to 42 minutes.

These concentrations are less than the permissible Ceiling of 10 fibers/cc and the permissible 8 hour TWA of 2 fibers/cc. In all cases the craftsmen wore protective equipment including Comfo 2 type respirator with type H filter, coveralls, goggles and gloves.

RECOMMENDATIONS: Share this information with Maintenance insulators.

DISCUSSION: In all areas where asbestos insulation was being removed the area was roped off and asbestos hazard signs were in place. In addition the insulation was wetted before starting and during removal as needed. All insulation was placed in labeled plastic bags for disposal. The area was washed down on completion of the job with all wet debris being scooped up for disposal, as mentioned above.

METHOD OF ANALYSIS: Microscopy

DATA AND REPORT BY: H. G. Kuntz/K. E. Williams

ANALYSIS BY: IHI - Kemron

COPY TO: D. L. Beagle, M.W. Bosserman, J. E. Boley, M. L. Byrd, R. E. Cashdollar, R. E. Crum, S. K. Delancey, L. R. Ferrebee, J. E. Heilman, Jr., R. M. Keith, D. Lupardus, J. E. McDermott, J. B. Mickey, J. E. Shearon, K. G. Taylor, Medical - 8.

K.E. Williams

UCC 016204

Union Carbide trial exhibit UC-2928: K. E. Williams, Industrial Hygiene Results on Insulator Exposure to Airborne As...
ACL Doc 17782 · Page 2 of 2

ASBESTOS MONITORING OF MAINTENANCE
INSULATORS DURING ASBESTOS INSULATION
REMOVAL, SEVERAL PLANT AREAS
PEL, TWA 8 HRS. = 2 FIBERS*/CC OF AIR
CEILING = 10 FIBERS*/CC OF AIR

*FIBERS LONGER THAN 5 MICROMETERS

F/CC	DATE	SAMPLE TIME, MINUTES		RESPIRATOR WORN	SAMPLE TYPE	SAMPLE METHOD	EMPLOYEE
0.13	6-10-83	9	Rectification, south end, ground level	Yes	P	FC	MLB
0.48	6-10-83	9		Yes	P	FC	SKD
1.43	6-14-83	21	Polymers I, TF44B1, 2nd level	Yes	P	FC	RMK
0.92	6-14-83	24		Yes	P	FC	KGT
0.11	6-16-83	42	Polymers II, overhead piping north of BL. 48	Yes	P	FC	SKD
0.34	6-16-83	36		Yes	P	FC	JES
1.49	6-17-83	10	Polymers I, K-2, 4th Level	Yes	P	FC	KGT
3.41	6-17-83	10		Yes	P	FC	JES
0.17	6-20-83	22	Steam Plant, 3rd level south of control room	Yes	P	FC	LRF
0.36	6-20-83	16		Yes	P	FC	DL
1.23	6-21-83	20	Intermediates, ground level, east side	Yes	P	FC	MLB
0.86	6-21-83	16		Yes	P	FC	DLB

FC = filter cassette

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