PLAINTIFF'S EXHIBIT

UC-2929

INDUSTRIAL HYGIENE RESULTS

DATE: June 20, 1983.

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

DATE OF SAMPLES: 4-11-83, 4-13-83, 4-26-83.

RESULTS RECEIVED: 6-6-83

SUMMARY: The maximum airborne asbestos concentration measured 6.36 fibers/cc during a monitoring period of 11 minutes, while the craftsman removed insulation from piping in Intermediates. Other monitoring results covered a range of 0.17 to 2.84 fibers/cc for monitoring periods of up to 45 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 were protected from exposure by use of Comfo 2 respirator with type H filter, coveralls, goggles, gloves, and boots.

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

COPY TO: D. L. Beagle, M. W. Bosserman, R. E. Cashdollar (2), R. E. Crum, S. K. Delancey, L. R. Ferrebee, R. M. Keith, D. Lupardus, J. E. McDermott, J. B. Mickey, K.G. Taylor., Jack Boley, Jim Heilman.

K. E. Williams

UCC 016207

Richmond ⇒ Wayne 13.

SPECTROSCOPY LABORATORY

Sample # Z-5849	Report To W Bosserman
Sample Ceiling material	Date 4/11/84
Lot or Location from Building 2000	Analyst Mc Cool
A. A. Analysis	**I. R. Analysis**

Cu (Alloy)	Al	SiH cc/gm
Ti	Ni	Propenyl
As	Cr	L-43%
Zn	Na	C=O
Cu	K	SiO_2
Ca	Si	CN
Fe	Sn	% Y-6425
Mn		% Activity
Mg		
Pb		

Identification

no asbestos noted,
material primarily fiber glass
with small amounts of paper fibers
and crystalline particle similar to
Calcium Carbonate.

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Union Carbide trial exhibit UC-2929: H. G. Kuntz and K. E. Williams, Industrial Hygiene Results on Insulator Exposu...
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ASBESTOS MONITORING OF MAINTENANCE INSULATORS
DURING ASBESTOS INSULATION REMOVAL
SEVERAL PLANT AREAS

PLA, 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	CRAFTSMAN
2.53	4-11-83	16	Intermediates, stripping insulation, east of control bldg.	Yes	P	FC	KGT
2.75	4-11-83	31	Poly I, Ground level at K-41	Yes	P	FC	KGT
6.36	4-11-83	11	Intermediates, stripping insulation east of control bldg.	Yes	P	FC	DLB
2.84	4-11-83	45	Poly I, ground level at K-41	Yes	P	FC	DLB
1.81	4-11-83	38	Poly I, ground level, at K-41	Yes	P	FC	SKD
0.17	4-13-83	37	ES, strip cover and insul. T-49	Yes	P	FC	DL
0.70	4-13-83	35	ES, strip cover and insul. T-49	Yes	P	FC	DL
0.51	4-13-83	33	ES, strip cover and insul. T-49	Yes	P	FC	LRF
0.33	4-13-83	33	ES, strip cover and insul. T-49	Yes	P	FC	LRF
1.16	4-26-83	41	Poly I, cutting 6" squares from insulation on slurry tanks	Yes	P	FC	RMK
0.79	4-26-83	44		Yes	P	FC	KGT

FC = filter cassette P = personal

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