PLAINTIFF'S EXHIBIT
UC-2524

UNION CARBIDE

INTERNAL CORRESPONDENCE

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

To (Name) Mr. W. T. Shelton
Division 704 Shop
Location

Date November 27, 1978

Originating Dept. Technical Center IH/EP

Copy to Mr. G. F. Hurley
Mr. G. C. Merz
Mr. M. E. Perry
Mr. H. L. Robinson

Subject Asbestos - Stripping Old Insulation

PROJECT Survey for asbestos exposure of insulator stripping insulation from Dowtherm lines in Building 707, Cell 3.

SUMMARY Good work practices and proper housekeeping by insulators kept the exposure to asbestos fibers at a minimum. Less than 0.20 fibers/cc > 5 μm - TWA for eight hours. The insulation was wet down with a water hose and the dismantled material was labeled and bagged for disposal at the landfill.

DISCUSSION A large stripping job of old insulation containing asbestos fiber was started on November 16, 1978, in Cell 3 of Building 707. The lines serviced a Dowtherm heater and ran through three levels of the cell floor. To facilitate the removal of this insulation containing asbestos, it was recommended that the piping be removed with the insulation intact and stripped at the Insulators' Shop. To remove the pipe, flanges and couplings had to be stripped of insulation for the pipefitters and riggers to unbolt and remove the lines from the cell.

Mr. R. Raines, an insulator (wearing an organic vapor respirator), made the necessary openings in the insulation for removal. The insulation was wet down before cutting and the stripped material was bagged and labeled for disposal.

When the lines are dismantled and removed from the cell and transported to the shop area, additional personal and area samples

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ACL Doc 17497 · Page 1 of 4 asbestosclaims.law/library/17497/1

of the ambient air will be collected and analyzed for asbestos. The exposure was well below the TWA of 2 fibers/cc and a ceiling value of 10 fibers/cc.

RESULTS

DATE	PERSONNEL	TIME-MIN-LITERS/AIR	EXPOSURE FIBERS/CC >5 μm
11/16/78	R. Raines*	1252-1345 = 53/95.4	0.44
11/16/78	R. Raines*	1345-1425 = 40/72	0.61

$$TWA = \frac{1.05 \times 93}{480} = 0.20 \text{ fibers/cc } >5 \text{ μm}$$

*Willson 122510 Half-face respirator.

REFERENCES Volume 38C-29X4-R1a Asbestos Dust Determination by Membrane Filter Technique Using Phase Contrast Microscopy.

REPORT PREPARED BY

G. W. Bott
Technical Center Industrial
Hygiene Department

G. W. Bott

GWB/sc

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ACL Doc 17497 · Page 2 of 4 asbestosclaims.law/library/17497/2

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ACL Doc 17497 · Page 3 of 4

INDUSTRIAL HYGIENE WORKPLACE SAMPLING

9/75

DATA SHEET NO. 20251 | PLANT 511 | 10MO. 05 DAY 13 YR. 76 | SOCIAL SECURITY NO. 232-50-2552 | 2627 INITS. 6WB | 31 LOCATION KEAR OF BLDG 707 | 60 | 67 | 77 78 79 80: 1 0 0

TEMPERATURE AM / PM | BAROM. PRESS. AM / PM | RELATIVE HUMIDITY | WEATHER CONDITIONS | 77 78 79 80: 1 1 0

SAMPLING DATA

TYPE (B Z P O A S)	METHOD (C M W F C O T D R I)	SAMPLE NUMBER	TIME START	TIME STOP	TOTAL (MIN.)	RATE AVG.	UNIT (C C M / L P M / C F M)	VOLUME	UNIT (C C / L / C F)	COMMENTS
✓	✓	8W6B-38	1036	1055	19	1.8	70 ✓	35.5	✓	SAWING GAF STONEWALL

ANALYTICAL DATA

CONTAMINANT	TOTAL WT.	UNIT (ng / mg)	AIR CONCEN.	UNIT (PPM / MPPCF / MG/M3)	TLV	METHOD (GC IR UV SP AA GV MIC)	REFERENCE	DATE MO.	DATE DAY	ANAL. BY INITS.
FIBERS			4.2	✓	5	✓	38C-29X4-ALA	05	19	6WB

PERSONNEL DATA

NAME LAST	NAME FIRST	NAME MIDDLE	BADGE NO.	DEPT.	JOB CLASSIFICATION	PROTECTION USED (FS BC B / RESP. / GLV. / CLTG. / COG. / SUBS. / CHEM. / TO BAC)	TWA	SAMPLED AREA	EXP. TIME	COMMENTS
WAYLOR	JERRY		233-82-5809	300	CARPENTER	✓		✓	01	

CCC 024357

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GLOSSARY

SAMPLING DATA
TYPE
- BZ - BREATHING ZONE
- P - PERMANENT STATION
- O - OPERATIONAL TASK
- A - AMBIENT
- S - SOURCE

METHOD
- CT - CARBON TUBE
- MI - MIDGET IMPINGER
- FC - FILTER CASSETTE
- G - GRAB
- DT - DETECTOR TUBE
- DRI - DIRECT READING INSTRUMENT

RATE UNIT
- CCM - CC PER MINUTE
- LPM - LITERS PER MINUTE
- CFM - CUBIC FEET PER MINUTE

VOLUME UNIT
- CC - CUBIC CENTIMETERS
- L - LITERS
- CF - CUBIC FEET

ANALYTICAL DATA
UNIT
- µg - MICROGRAMS
- mg - MILLIGRAMS

ANALYTICAL DATA - CONTD.
AIR CONCENTRATION IN UNIT
- PPM - PARTS PER MILLION (BY VOL.)
- mg/M³ - MILLIGRAMS PER CUBIC METER
- F/CC - FIBERS PER CUBIC CENTIMETER
- MPPCF - MILLION PARTICLES PER CUBIC FOOT

METHOD
- GC - GAS CHROMATOGRAPHY
- IR - INFRA RED SPECTROPHOTOMETRY
- UV - ULTRAVIOLET
- SP - VISUAL SPECTROPHOTOMETRY
- AA - ATOMIC ABSORPTION SPEC.
- GV - GRAVIMETRIC ANALYSIS
- MIC - MICROSCOPY

PERSONNEL DATA
PROTECTION USED
- FS - FACE SHIELD
- BC - BARRIER CREAM
- B - BOOTS
- RESP - RESPIRATOR PROTECTION
- GLV - GLOVES
- CLTH - PROTECTIVE CLOTHING
- GOG - GOGGLES

TOBACCO HABITS
- SMK - SMOKING
- CHW - CHEWING

CALIBRATION DATA

EQUIPMENT IDENTIFICATION	DATE	METHOD

SAMPLING PUMP DATA

PUMP NO.	START	STOP	AVERAGE RATE

Back - UCC-OSP-IH-CI
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ACL Doc 17497 · Page 4 of 4 **asbestosclaims.law/library/17497/4**