PLAINTIFF'S EXHIBIT
UC-1071

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

DATE: 12-8-72

BLDG: 17

METHOD: 38C-29X4-R1 MICRONAIR PERSONAL SAMPLER — 0.8μ MILLIPORE FILTER

DEPT: INSULATORS - L.F. HOLMAN — B. SCOTT

JOB: REMOVAL OF KAYLO-20 INSULATION FROM A CONVERTER ON THE NORTH SIDE OF BLDG. 17

PROCEDURE: THE WEATHER SEAL IS CAREFULLY REMOVED AND THEN THE KAYLO BLOCKS SURROUNDING THE FLANGE ARE REMOVED ONE AT A TIME AND SAVED - THEY WILL BE REUSED LATER. THE KAYLO NEXT TO THE KETTLE WAS TORN OUT WITH LESS CARE SINCE IT COULD NOT BE SALVAGED.

CONDITIONS: THE INSULATION WAS NOT WETTED DOWN BECAUSE IT WAS TO BE SALVAGED AND RE-USED.
THE INSULATORS WERE WEARING DUST RESPIRATORS AT ALL TIMES.
BREEZES WERE MILD AT 6 TO 10 MPH - VERY HUMID
DUST DURING THIS TEAR OUT WAS NOT VISIBLY EXCESSIVE.

RESULTS: INSULATION REMOVAL - FLANGE AT THE BOTTOM OF THE CONVERTER

INSULATOR	TIME	LPM	MINUTES	FIBERS/CC GREATER THAN 5μ
L.F. HOLMAN	7⁵⁴/AM to 8⁰⁹/AM	2.0	15	1.4
B. SCOTT	7⁵⁶/AM to 8¹¹/AM	2.0	15	1.0
* AREA SAMPLE	7⁵⁷/AM to 8¹²/AM	2.0	15	0.7
L.F. HOLMAN	8¹⁰/AM to 8³⁸/AM	2.0	28	4.8
B. SCOTT	8¹¹/AM to 8³⁸/AM	2.0	27	3.1
* AREA SAMPLE	8¹²/AM to 8⁴⁸/AM	2.0	~~28~~ 36	1.6

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* AREA SAMPLES WERE TAKEN DOWNWIND AT A DISTANCE OF 6 FEET

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INDUSTRIAL HYGIENE DEPT.
ASBESTOS DUST STUDY

RESULTS: INSULATION REMOVAL - FLANGES AT THE TOP OF THE CONVERTER

INSULATOR	TIME	LPM	MINUTES	FIBERS/CC GREATER THAN 5μ
L.F. HOLMAN	9:45/AM to 10:00/AM	2.0	15	1.7
B. SCOTT	9:46/AM to 10:01/AM	2.0	15	2.3
LF. HOLMAN	10:00/AM to 10:17/AM	2.0	17	1.1
B. SCOTT	10:01/AM to 10:18/AM	2.0	17	3.0
LF. HOLMAN	10:17/AM to 10:43/AM	2.0	25	1.0
B. SCOTT	10:18/AM to 10:43/AM	2.0	25	1.7
*AREA SAMPLE	9:49/AM to 10:45/AM	2.0	57	0.3

*AREA SAMPLE TAKEN DOWNWIND AT A DISTANCE OF 6 FEET

NOTE: WINDS IN THE UNIT AREA ARE CONSTANTLY CHANGING WITH GROUND CURRENTS AND SWIRLS.

REMARKS: ALL BULK SCRAP WAS REMOVED FROM THE AREA AND PLACED IN PLASTIC BAGS. HOWEVER, A CONSIDERABLE AMOUNT OF PARTICULATE INSULATION WAS LEFT AROUND THE FLANGE BOLTS, ON THE SCAFFOLD BARS AND ON THE GROUND.

EFFORTS SHOULD BE MADE TO PREVENT DISPERSION OF THIS MATERIAL, TO MINIMIZE THE AMOUNT TO BE VACUUMED PRIOR TO THE ARRIVAL OF FOLLOW-UP CRAFTS.

WETTING THE AREA DOWN IS ONLY A TEMPORARY MEASURE. THE ASBESTOS DUST WILL BECOME A HAZARD AGAIN AS SOON AS IT DRIES OUT.

TOTAL EXPOSURE TIME FOR THIS JOB WAS APPROXIMATELY 3 HOURS RESULTS ARE NOT CALCULATED ON AN 8 HOUR TIME WEIGHTED BASIS SINCE NONE WERE IN EXCESS OF 5 FIBERS/CC OR THE CEILING OF 10 FIBERS/CC.

C. W. PERRY

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Asbestos

UNION CARBIDE

INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX 471, TEXAS CITY, TEXAS 77590

TO (NAME) Mr. R. L. Yelton
COMPANY
LOCATION

DATE November 28, 1972

COPY TO Messrs. D. R. Reem
R. E. Corkrean
J. F. Schultz

SUBJECT Compliance with OSHA Standards - Asbestos

Dear Mr. Yelton:

This is a progress report on the status of compliance with the OSHA Standard on asbestos insofar as medical requirements.

All employees in the insulating group at the Texas City Plant have received the following since the standard became effective June 7, 1972:

1) Chest x-ray (PA 14 x 17).
2) Spirometry (forced vital capacity and forced expiratory volume in one second).
3) Sputum cytology.
4) Consultation and chest examination
5) Records will be maintained for twenty years.

Two employees doing cutting of asbestos gaskets at Building 281 are in the process of completing their medical examinations.

Industrial hygiene monitoring is being carried out in compliance with the standards.

A meeting was held on November 28, 1972 with Messrs. Rudy Reem, Frank Pierce, and Jim Rapp. The OSHA standard for asbestos was discussed and methods of compliance were planned.

Sincerely,

David H. Glenn, M.D.

DHG/eb

UCTC 10887