

FILE NAME: Union Carbide (UC)

DATE: 1985 June 28

DOC#: UC121

DOCUMENT DESCRIPTION: Memo RE Asbestos Exposure Effects Potential on Non-Insular Crafts with Report - Job Classification/EED Code



INTERNAL
CORRESPONDENCE

JUL 2 1985

UNION CARBIDE CORPORATION P O BOX 8004, SOUTH CHARLESTON, WV 25303

SILICONES AND URETHANE INTERMEDIATES

SOUTH CHARLESTON PLANT

To: J. R. Dean
D: P. D. Gossage
Cc: B. G. Stump

Date: June 28, 1985

Subject: Asbestos Exposure Effects

Re: Asbestos Exposure Effects

C. E. Fry
D. A. Gosselin
R. W. Holland, Jr., M.D.
D. J. McNeil
T. G. Swanson
Managers Department

Asbestos Exposure Effects
Potential of Non-Insulator
Crafts

Asbestos dust measurements in the plant are consistently below OSHA permissible exposure limits (see attached summary). However, when we detect even a fraction of those limits in our air samples I get a feeling of apprehension because I question if any level of inhalation exposure is safe in absence of respiratory protection.

Airborne asbestos dust measurements are expressed in terms of the number of fibers that are 5 microns or more in length in one cubic centimeter of air. Numerical estimates should be evaluated with caution according to OSHA, because air concentrations used are a matter of convenience and "should not be evaluated without interpreting the meaning of the units."⁽¹⁾ For example, the OSHA permissible limit for an 8-hour day is 2.0 fibers (5 μ or longer) per cc of air. This may seem like a small amount of asbestos which is conventionally determined using a microscope, but in my opinion represents a potentially hazardous condition. In physical terms 2.0 f/cc equals 2,000,000 fibers per cubic meter of air (f/m³). Humans inhale about one cubic meter of air per hour, depending on degree of activity. Thus, at this concentration a worker would inhale roughly 16,000,000 fibers 5 microns in length over an 8-hour day - disregarding the possibility of an infinite number of shorter fibers being present under some conditions.

Based on our measurements such conditions rarely exist in plant workplace environments. Nevertheless, existing, natural defense mechanisms alone (respiratory system mucous and nasal hair) may be inadequate for even concentrations at the lowest reliable detection limits.

I feel good about the manner in which exposure control has improved among Insulator craft groups due to establishment and maintenance of adequate standards. My feeling of apprehension, however, is due to concern about potential chronic health effects among all other crafts whose exposure concentration may be comparatively lower, perhaps less frequent but, in any case, generally without the benefit of respiratory protection.

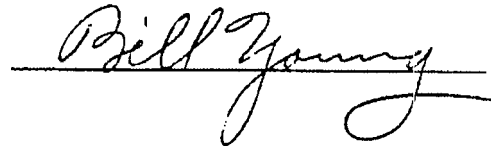
(1) Bureau of National Affairs, Occupational Safety & Health Reporter, November 11, 1983.

As you know, total elimination of asbestos-contained materials in the plant is unlikely and impractical because of cost, safety or lack of suitable replacement material-reasons. A gasket failure, for example, due to use of an unsuitable substitute could potentially cause a far more hazardous condition than any conceivable one related to use of asbestos-contained gasket material.

Occupational exposure to asbestos can be effectively controlled in most plant situations by using wet-method handling procedures and an appropriate dust mask commonly used by Insulators throughout the plant. I urge you to consider taking action necessary for strict enforcement of mandatory use of respiratory protection by all employees who use or handle any asbestos-contained materials, e.g., gasket fabrication/removal/disposal, brake lining replacement or even inspections, insulation removal/disturbance related to a wide variety of job tasks performed by various craft groups, etc. Such action would virtually prevent occurrence of any inhalation exposure.

Please call me if you have any questions or comments.

Thank you.

A handwritten signature in cursive script, reading "Bill Young", is written over a horizontal line.

WCY:b1

Attachment

JOB CLASSIFICATION/EEO CODE

CLASS	JOB CODE				
	E 40	E 41	O 42	E 43	
AUTOMECH	H	5	Z		Automobile Mechanic
BLKSMITH	H	9	Z		Blacksmith
BLRMAKR	H	9	Z	1	Boilermaker
C DRIVER	J	4	Z		Non-Plant Truck Driver
C FMAN	B	F	H	2	Non-Plant Foreman or Shift Leader
C MAINT	J	M	Z	3	Non-Plant Maintenance People (Contract, SCWTW, Etc.)
C OPER	H	1	Z	2	Non-Plant Operator
CARPNTN	H	D	Z		Carpenter
CAR UNLD	K	X	Z		Car Unloader
CHEMIST	C	3	Z		Chemist
CORRTECH	D	X	Z	2	Corrosion Technician
ELECTN	H	B	Z		Electrician
XPDITR	G	X	Z		Expediter
ENGR	C	7	Z		Engineer
F S ATT	L	S	Z		Fire Station Attendant
FMAN	B	F	H	1	Foreman, Supervisor of Hourly Personnel
GEN FMAN	B	D	Z		General Foreman, Shift Super
H E OPER	H	2	Z		Heavy Equipment Operator
I H TECH	D	X	Z	1	Industrial Hygiene Technician
INDHYGST	C	P	Z		Industrial Hygienist
INSP T&I	J	F	Q		Inspector T&I
INST MECH	H	A	Z		Instrument Mechanic
INSUL	H	Q	Z		Insulator
LAB ASST	D	3	Z	1	Laboratory Assistant
LAB TECH	D	3	Z	2	Laboratory Technician
LABORER	K	B	Z		Laborer
MACH	H	S	Z	1	Machinist
METL WKR	H	V	Z		Sheetmetal Worker
MILWRT	H	S	Z	2	Millwright
OPER	H	1	Z	1	Operator (Chemical, Plant 514 Only, Including Pumper Operator)
PAINTER	H	N	Z		Painter
PIPE FITR	H	R	Z		Pipefitter
P M OPER	H	X	Z	1	Pipeline Machine Operator
P L MECH	H	X	Z	2	Pipeline Mechanic
Q C ANAL	D	F	Z		Quality Control Analyst
REL OPER	H	1	Z	3	Vacation Relief Operator
RIGGER	H	L	Z		Rigger
SALVMECH	J	M	Z	2	Salvage Mechanic
SD BLSTR	H	X	Z		Sandblaster
SR CLERK	G	X	Z		Senior Clerk
S&R CLK	G	X	Z	2	Stores & Receiving Clerk
SUPRVISR	B	F	Z		Supervisor Non Technical (Does Not Supervise Hourly People)
TOOL CLK	G	X	Z	3	Tool Clerk
TK DRIVR	J	4	Z	1	Truck Driver - Plant 514 Only
UTIL MECH	J	M	Z	1	Utility Mechanic
WELDER	H	7	Z		Welder
WGHMASTR	J	6	Z		Weighmaster

CIHRKLES 3.2.2.3

SUBJECT

LINES 400-490: PERSONNEL DATA

Entries and Comments

Cannot be blank; Z=none. If a respirator is worn, use the appropriate code letter from the following list:

A-Supplied Air, Full Face Mask
B-Supplied Air, Full Face Mask, Positive Pressure Demand
C-Supplied Air, Half Face Mask
D-Supplied Air, Half Face Mask, Positive Pressure Demand
E-Supplied Air, Abrasive Blasting Hood
F-Gas Mask, General Purpose
G-Gas Mask, Specific
H-Cartridge, Dust, Nuisance, Full Face Mask
I-Cartridge, Dust, Nuisance, Half Face Mask
J-Cartridge, Dust, Specific
K-Cartridge, Acid Gas, Full Face Mask
L-Cartridge, Acid Gas, Half Face Mask
M-Cartridge, Organic Vapor, Full Face Mask
N-Cartridge, Organic Vapor, Half Face Mask
O-Cartridge, Specific, Full Face Mask
P- Cartridge, Specific, Half Face Mask
Q-Dust Mask
R-Dust Mask-Disposable
S-Dust Mask, Toxic
T-Supplied Air, Hood
X-Other
Z-None

CONTAMINANT NAME DEPT.		PROCESS	AT JOB	SAMP	AIR	B-HOUR	EXPOSURE	RESP
NO.		OR UNIT	CLASS	TOTL	CONC	T.W.A.	STANDARD	
			CODE	TIME		CONC.		
ASBESTOS		FABRICATION SHOP	79	03 07	17	.1500	2.000	
ASBESTOS		FABRICATION SHOP	79	03 07	17	.5000	2.000	
ASBESTOS		IPH	79	09 18	315	.1000	2.000	
ASBESTOS		IPH	79	09 18	315	.0100	2.000	
ASBESTOS		IPH	79	09 18	314	.1000	2.000	
ASBESTOS		IPH	79	09 18	306	.0100	2.000	
ASBESTOS		IPH	80	04 22	290	.0170	2.000	
ASBESTOS		IPH	80	05 05	360	.0170	2.000	
ASBESTOS		IPH	80	05 05	360	.0320	2.000	
ASBESTOS		IPH	80	05 05	360	.0130	2.000	
ASBESTOS		IPH	80	05 06	420	.0050	2.000	
ASBESTOS		IPH	80	05 07	420	.1300	2.000	
ASBESTOS		IPH	80	05 08	397	.0210	2.000	
ASBESTOS		IPH	80	05 22	426	.0150	2.000	
ASBESTOS		IPH	80	05 23	395	.0110	2.000	
ASBESTOS		IPH	80	05 27	420	.0210	2.000	
ASBESTOS		IPH	80	05 28	415	.0340	2.000	
ASBESTOS		IPH	80	05 29	360	.0370	2.000	
ASBESTOS		IPH	80	06 04	389	.0200	2.000	
ASBESTOS		IPH	80	06 10	386	.0200	2.000	
ASBESTOS		IPH	83	10 11	43	.5800	2.000	
ASBESTOS		IPH	83	10 11	43	1.0100	2.000	
ASBESTOS		IPH	83	10 11	43	.3800	2.000	
ASBESTOS		IPH	84	04 06	123	.0860	.500	
ASBESTOS		IPH	84	04 06	123	.1040	.500	
ASBESTOS		IPH	84	06 14	345	.0230	.500	
ASBESTOS		IPH	84	06 14	345	.0310	.500	
ASBESTOS		IPH	84	06 14	345	.0270	.500	
ASBESTOS		IPH	84	06 14	345	.0240	.500	
ASBESTOS		IPH	84	06 14	345	.0110	.500	
ASBESTOS		IPH	84	06 14	345	.0120	.500	
ASBESTOS		IPH	84	06 14	345	.0330	.500	
ASBESTOS		IPH	84	06 14	345	.0360	.500	
ASBESTOS		IPH	84	07 03	150	.0740	.500	
ASBESTOS		IPH	84	07 03	150	.0840	.500	
ASBESTOS		IPH	84	07 03	150	.0640	.500	
ASBESTOS		IPH	84	07 03	150	.0740	.500	
ASBESTOS		IPH	84	07 09	150	.0930	.500	
ASBESTOS		IPH	84	07 09	150	.3590	.500	
ASBESTOS		IPH	84	07 09	150	.2310	.500	
ASBESTOS		IPH	84	07 09	150	.1130	.500	
ASBESTOS		IPH	84	07 10	195	.1020	.500	
ASBESTOS		IPH	84	07 10	195	.0940	.500	
ASBESTOS		IPH	84	07 10	195	.0640	.500	
ASBESTOS		IPH	84	07 10	195	.0600	.500	
ASBESTOS		IPH	84	07 11	205	.1290	.500	
ASBESTOS		IPH	84	07 11	205	.1440	.500	
ASBESTOS		IPH	84	07 11	205	.0970	.500	
ASBESTOS		IPH	84	07 11	205	.1470	.500	

UCC 008291

CONTAMINANT NAME	DEPT.	PROCESS	AT	JOB	SAMP	AIR	8-HOUR	EXPOSURE	RESP		
NO.	OR UNIT		CLASS	TOTL		CONC	T.W.A.	STANDARD			
			CODE	TIME			CONC.				

ASBESTOS	004320	IPH	80	06	04	H1Z1	387	.0710	.0710	2.000	Z
ASBESTOS	004320	IPH	80	06	04	H1Z1	387	.0220	.0220	2.000	Z
ASBESTOS	004320	IPH	80	06	04	H1Z1	407	.0190	.0190	2.000	Z
ASBESTOS	004320	IPH	80	06	10	H1Z1	397	.0190	.0190	2.000	Z
ASBESTOS	004320	IPH	80	06	10	H1Z1	394	.0280	.0280	2.000	Z
ASBESTOS	004320	IPH	80	06	10	H1Z1	395	.0370	.0370	2.000	Z
ASBESTOS	223020	MAINTENANCE	85	02	04	JGZ	85	.3100		2.000	R
ASBESTOS	327000	FABRICATION SHDP.	79	03	07	HVZ	17	.2300		2.000	Z
ASBESTOS	327000	IPH	79	09	10	HQZ	17	.6700		2.000	R
ASBESTOS	327000	IPH	79	09	10	HQZ	33	.3200		2.000	R
ASBESTOS	327000	IPH	79	09	11	HQZ	80	.1000		2.000	R
ASBESTOS	327000	IPH	79	09	11	HQZ	80	.0500		2.000	R
ASBESTOS	327000	IPH	79	09	11	HQZ	180	.0900	.0500	2.000	R
ASBESTOS	327000	IPH	79	09	11	HQZ	180	.1100	.0500	2.000	R
ASBESTOS	327000	IPH	79	09	11	HQZ	327	.5000	.3400	2.000	R
ASBESTOS	327000	IPH	79	09	11	HQZ	325	.1000	.0700	2.000	R
ASBESTOS	327000	IPH	79	10	01	HQZ	317	.2000	.1300	2.000	R
ASBESTOS	327000	IPH	79	10	02	HQZ	321	.2000	.1600	2.000	R
ASBESTOS	327000	IPH	79	10	02	HQZ	380	.1000	.0800	2.000	R
ASBESTOS	327000	IPH	79	10	02	HQZ	382	.2000	.1600	2.000	R
ASBESTOS	327000	IPH	82	06	23	HQZ	10	.4000		2.000	R
ASBESTOS	327000	IPH	82	06	29	HLZ	5	3.7000		2.000	R
ASBESTOS	327000	IPH	83	04	26	HLZ	65	.2200		2.000	Z
ASBESTOS	327000	IPH	83	04	26	HLZ	65	.2300		2.000	Z
ASBESTOS	327000	IPH	83	11	04	HQZ	72	.2910		.500	R
ASBESTOS	327000	IPH	83	11	04	HQZ	69	.1390		.500	R
ASBESTOS	327000	IPH	84	01	11	HQZ	88	.4100		.500	R
ASBESTOS	327000	IPH	84	01	11	HQZ	88	.3600		.500	R
ASBESTOS	327000	IPH	84	01	13	HQZ	30	.4910		.500	R
ASBESTOS	327000	IPH	84	01	13	HQZ	30	.4180		.500	R
ASBESTOS	327000	IPH	84	01	20	HQZ	12	.1840		.500	R
ASBESTOS	327000	IPH	84	01	20	HQZ	12	.0310		.500	R
ASBESTOS	327000	IPH	84	03	02	HQZ	125	.3540		.500	P
ASBESTOS	327000	IPH	84	04	06	HQZ	121	.3010		.500	R
ASBESTOS	327000	IPH	84	04	06	HQZ	120	.2570		.500	R
ASBESTOS	327000	IPH	84	04	17	HQZ	111	.3920		.500	R
ASBESTOS	327000	IPH	84	04	30	HQZ	145	.1270		.500	R
ASBESTOS	327000	IPH	84	04	30	HQZ	145	.3150		.500	I
ASBESTOS	327000	IPH	84	05	21	HQZ	20	.5670		.500	R
ASBESTOS	327000	IPH	84	05	21	HRZ	50	.5900		.500	R
ASBESTOS	327000	IPH	84	05	21	JFQ	40	.3390		.500	R
ASBESTOS	327000	IPH	84	05	21	HLZ	50	.1030		.500	R
ASBESTOS	327000	IPH	85	04	22	HQZ	95	.1710		2.000	R
ASBESTOS	327000	IPH	85	04	22	HQZ	95	.2480		2.000	R
ASBESTOS	327000	LOWER BRIDGE	84	03	17	HQZ	360	.2010	.1507	.500	R
ASBESTOS	327000	LOWER BRIDGE	84	03	17	KBZ	360	.0980	.0735	.500	P
ASBESTOS	327000	LOWER BRIDGE	84	03	17	KBZ	360	.1560	.1170	.500	R
ASBESTOS	327000	LOWER BRIDGE	84	03	17	HQZ	360	.1000	.0750	.500	R
ASBESTOS	327000	LOWER BRIDGE	84	03	17	HQZ	360	.1210	.0907	.500	P

DCC 008295

CONTAMINANT NAME	DEPT.	PROCESS	AT	JOB	SAMP	AIR	8-HOUR	EXPOSURE	RESP
	NO.	OR UNIT				CONC	T.W.A.	STANDARD	

					CLASS TOTL		CONC.		
					CODE TIME				

ASBESTOS	327000	MAIN CHEM COMPLEX	84	09	11 HQZ	55	.2550	.500	Z
ASBESTOS	327000	MAIN CHEM COMPLEX	84	09	11 HQZ	55	.1920	.500	Z
ASBESTOS	327000	MAINTENANCE	80	09	02 HQZ	45	1.9000	2.000	R
ASBESTOS	327000	MAINTENANCE	80	09	02 HQZ	45	1.0600	2.000	R
ASBESTOS	327000	MAINTENANCE	80	09	22 HQZ	45	2.2800	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	23 HQZ	25	1.7100	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	23 HQZ	7	3.9000	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	23 HQZ	7	3.0500	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	24 HQZ	30	1.2000	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	24 HQZ	16	.7400	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	24 HQZ	30	.5700	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	24 HQZ	30	.5400	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	27 HQZ	12	.4300	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	27 HQZ	12	.3400	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	27 HQZ	10	.7400	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	27 HQZ	10	.2900	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	28 HQZ	13	3.6300	2.000	R
ASBESTOS	327000	MAINTENANCE	80	10	28 HQZ	13	6.1200	2.000	R
ASBESTOS	327000	MAINTENANCE	83	12	09 HQZ	45	3.6030	.500	R
ASBESTOS	327000	MAINTENANCE	83	12	30 HQZ	8	.9210	.500	R
ASBESTOS	327000	MAINTENANCE	84	03	03 HQZ	400	.2250	.2250	.500 R
ASBESTOS	327000	MAINTENANCE	84	03	03 HQZ	400	.1490	.1490	.500 R
ASBESTOS	327000	MAINTENANCE	94	03	03 HLZ	400	.0570	.0570	.500 R
ASBESTOS	327000	MAINTENANCE	84	03	03 HZ2	400	.0280	.0280	.500 R
ASBESTOS	327000	MAINTENANCE	84	03	03 HQZ	400	.1110	.1110	.500 R
ASBESTOS	327000	MAINTENANCE	84	09	06 HQZ	8	.8290	.500	R
ASBESTOS	327000	MAINTENANCE	84	11	13 HQZ	120	.0610		2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	155	.0290	.0240	2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	30	.2460		2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	132	.0850		2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	113	.0590	.0520	2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	148	.0810		2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	127	.2320	.0860	2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	275	.0290	.0170	2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	275	.0320	.0180	2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	150	.2060	.0640	2.000 R
ASBESTOS	327000	MAINTENANCE	84	11	18 HQZ	150	.0880	.0280	2.000 R
ASBESTOS	327000	MAINTENANCE	85	02	04 HQZ	85	.4900		2.000 R
ASBESTOS	327000	MAINTENANCE	85	02	04 HQZ	85	.2300		2.000 R
ASBESTOS	327000	MAINTENANCE	85	02	26 HQZ	255	.0370	.0200	2.000 R
ASBESTOS	327000	MAINTENANCE	85	02	26 HQZ	255	.0340	.0180	2.000 R
ASBESTOS	327000	MICC	84	05	23 HQZ	18	.4090		.500 R
ASBESTOS	327000	MICC	84	05	23 HQZ	18	.2460		.500 R
ASBESTOS	327000	MICC	84	05	31 HQZ	32	.7300		.500 P
ASBESTOS	327000	MICC	84	05	31 HQZ	32	2.2100		.500 R
ASBESTOS	327000	MICC	84	06	01 HQZ	170	1.9300		.500 P
ASBESTOS	327000	MICC	84	06	01 HQZ	305	.0510		.500 R
ASBESTOS	327000	MICC	84	06	06 HQZ	45	1.5900		.500 R
ASBESTOS	327000	MICC	84	06	19 HQZ	100	.1400		.500 R

UCC 008296

CONTAMINANT NAME DEPT. PROCESS AT JOE SAMP AIR 8-HOUR EXPOSURE RESP
NO. OR UNIT CLASS TOTL CONC T.M.A. STANDARD

CODE TIME *****

ASBESTOS	327000	MICC	84 06 19 HQZ	100	-1400		-500 R
ASBESTOS	327000	DILYARD	80 07 15 HQZ	15	-2,2100		2,000 R
ASBESTOS	327000	DILYARD	80 07 15 HQZ	15	-2,4600		2,000 R
ASBESTOS	327000	DILYARD	80 07 15 HQZ	15	-1,2300		2,000 R
ASBESTOS	327000	DILYARD	80 07 15 HQZ	15	-3,3900		2,000 R
ASBESTOS	327000	DILYARD	83 10 24 HQZ	105	-1400		2,000 R
ASBESTOS	327000	DILYARD	83 10 24 HQZ	105	-1330		2,000 R
ASBESTOS	327000	DILYARD	83 11 02 HQZ	42	-8420		2,000 R
ASBESTOS	327000	DILYARD	83 11 02 HQZ	42	-5790		2,000 R
ASBESTOS	327000	DILYARD	84 02 09 HQZ	140	-2160		500 R
ASBESTOS	327000	DILYARD	84 02 09 HQZ	140	-1210		500 R
ASBESTOS	327000	DILYARD	84 09 28 HQZ	25	-2950		500 R
ASBESTOS	327000	DILYARD	80 05 29 HQZ	370	-1830	-1830	2,000 R
ASBESTOS	327000	DILYARD	80 05 29 HQZ	370	-2010	-2010	2,000 R
ASBESTOS	327000	DILYARD	80 05 30 HQZ	425	-1340	-1340	2,000 R
ASBESTOS	327000	DILYARD	80 05 30 HQZ	425	-2220	-2220	2,000 R
ASBESTOS	327000	DILYARD	80 06 05 HQZ	117	-8690	-2120	2,000 R
ASBESTOS	327000	DILYARD	83 10 17 HQZ	36	-0680		2,000 R
ASBESTOS	327000	DILYARD	83 10 17 HQZ	45	-1370		2,000 R
ASBESTOS	327000	DILYARD	84 02 10 HQZ	40	-0570		2,000 R
ASBESTOS	327000	DILYARD	84 02 10 HQZ	29	-3050		500 R
ASBESTOS	327000	DILYARD	84 02 10 HQZ	29	-1810		500 R
ASBESTOS	327000	DILYARD	84 02 17 HQZ	310	-0790	-0510	500 R
ASBESTOS	327000	DILYARD	84 02 17 HQZ	310	-4490	-2900	500 R
ASBESTOS	327000	DILYARD	84 02 23 HQZ	330	-0660	-0454	500 R
ASBESTOS	327000	DILYARD	84 02 23 HQZ	330	-4260	-2929	500 R
ASBESTOS	327000	DILYARD	84 02 23 HQZ	330	-0370	-0398	500 R
ASBESTOS	327000	DILYARD	84 05 18 HQZ	15	-4910		500 R
ASBESTOS	327000	DILYARD	80 06 23 HQZ	15	-2950		500 R
ASBESTOS	327000	DILYARD	80 06 23 HQZ	15	-2,3600		2,000 R
ASBESTOS	327000	DILYARD	80 07 01 HQZ	15	-4,7700		2,000 R
ASBESTOS	327000	DILYARD	80 07 01 HQZ	15	-1,3800		2,000 R
ASBESTOS	327000	DILYARD	80 07 01 HQZ	15	-1,0100		2,000 R
ASBESTOS	327000	DILYARD	80 07 01 HQZ	15	-2,3500		2,000 R
ASBESTOS	327000	DILYARD	80 07 01 HQZ	15	-2,3600		2,000 R
ASBESTOS	327000	DILYARD	83 12 12 HQZ	33	-6250		500 R
ASBESTOS	327000	DILYARD	83 12 12 HQZ	33	-5140		500 R
ASBESTOS	327000	DILYARD	83 12 14 HQZ	195	-1400	-0569	500 R
ASBESTOS	327000	DILYARD	83 12 14 HQZ	206	-1250	-0536	500 R
ASBESTOS	327000	DILYARD	83 12 14 HQZ	236	-1860	-0798	500 R
ASBESTOS	327000	DILYARD	83 12 14 HQZ	236	-2760	-1185	500 R
ASBESTOS	327000	DILYARD	84 07 05 HQZ	30	-3690		500 R
ASBESTOS	327000	DILYARD	84 07 05 HQZ	75	-1,2410		500 R
ASBESTOS	327000	DILYARD	84 07 15 HQZ	75	-3440		500 R
ASBESTOS	327000	DILYARD	84 07 30 HQZ	33	-5140		500 R
ASBESTOS	327000	DILYARD	84 07 30 HQZ	33	-2900		500 R
ASBESTOS	327000	DILYARD	84 07 30 HQZ	50	-3560	-0440	500 R
ASBESTOS	327000	DILYARD	84 07 30 HQZ	50	-4550	-0560	500 R

CONTAMINANT NAME	DEPT.	PROCESS	AI JOB	SAMP	AIR	R-HOUR	EXPOSURE	STANDARD
NO.	OR UNIT		CLASS	TOTL	CONC	T.W.A.		
			CODE	TIME		CONC.		
ASBESTOS	327000	UCAR SOLUTION VINYL	84 10 26	HQZ	32	.8750	-500 R	
ASBESTOS	327000	UCAR SOLUTION VINYL	84 10 26	HQZ	32	1.1980	-500 R	
ASBESTOS	327000	UICC	84 01 06	HQZ	53	.5250	-500 R	
ASBESTOS	327000	UICC	84 01 06	HQZ	53	.6950	-500 R	
ASBESTOS	327000	UICC	84 01 06	HQZ	25	.3540	-500 R	
ASBESTOS	327000	UICC	85 03 20	HQZ	30	.2500	2,000 I	
ASBESTOS	327000	UICC	85 03 20	HQZ	30	.1600	2,000 R	
ASBESTOS	327000	UICC	85 03 29	HQZ	210	.3600	2,000 R	
ASBESTOS	327000	UICC	85 03 15	HQZ	210	.3500	2,000 R	
ASBESTOS	327010	IPH	85 03 15	HQZ	25	.9700	2,000 I	
ASBESTOS	327010	IPH	85 03 15	HQZ	25	1.3500	2,000 I	
ASBESTOS	327010	MAINTENANCE	84 12 26	HQZ	15	.0490	2,000 I	
ASBESTOS	327010	MAINTENANCE	84 12 28	HQZ	17	.2600	2,000 I	
ASBESTOS	327010	MAINTENANCE	85 02 20	HQZ	100	.2100	2,000 R	
ASBESTOS	327010	MAINTENANCE	85 03 12	HQZ	35	.0200	2,000 I	
ASBESTOS	327010	MAINTENANCE	85 03 12	HQZ	20	.0400	2,000 I	
ASBESTOS	327880	MAINTENANCE	85 02 20	JGZ	100	.0400	2,000 R	
ASBESTOS	327680	MAINTENANCE	85 02 26	H1Z1	255	.0060	2,000 R	
ASBESTOS	350010	GARAGE	83 04 05	H5Z	30	3.9300	2,000 Z	
ASBESTOS	350010	GARAGE	83 04 05	H5Z	30	2.0900	2,000 Z	