



INTERNAL
CORRESPONDENCE

UNION CARBIDE CORPORATION P O BOX 8004, SOUTH CHARLESTON, WV 25303
SILICONES AND URETHANE INTERMEDIATES
SOUTH CHARLESTON PLANT

To: (Name) D. D. Templeton

Date January 23, 1985

Division

Location Building 406 Annex/514

Originating Dept.

Area

File

Reviewed by K. W. Holland, M.D.

Subject Asbestos Measurements

S. Rossi

W. C. Young

Dave,

Here are all the asbestos measurements we made in 1983 and 1984.

If there is no entry in the "Job Class. Code" column, the sample was "area;" not personnel. In that case, the far right-hand column will also be blank. A key to the "Z's" and "R's" in that column is as follows: *attached*

An "8-Hour TWA Concentration" of 1.00 means that it was not a personnel measurement

or

the exposure time was too short to allow a meaningful calculation

or

we couldn't be sure that there would be no more exposure and thus couldn't be certain of an 8-hour TWA.

I think the rest is clear. If you have questions, please call Bill Young on extension 2434.

C. E. Fry
C. E. Fry

CEF:b1

Attachment

UCC 011568

PLAINTIFF'S EXHIBIT

UC-4251

PROCESS OR UNIT	DEPT.	CONTAMINANT NAME	AT JOI	SAMP	AIR	B-HOUR	EXPOSURE RESP
	NO.		CLASS CODE	TOTAL TIME	CONC	T.W.A.	STANDARD
UICC		AMMONIA	04 04 30	120	7-01 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	7-22 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
UICC		AMMONIA	04 04 30	120	1-00 PPM	1-00	25-000
GARAGE	350010	ASBESTOS	83 04 05 H52	30	1-93 F/CC	-74	2-000 Z
GARAGE	350010	ASBESTOS	83 04 05 H52	30	2-09 F/CC	-13	2-000 Z
IPM	327000	ASBESTOS	83 04 26 HLZ	65	-22 F/CC	1-00-	2-000 Z
IPM	327000	ASBESTOS	83 04 26 HLZ	65	-23 F/CC	1-00-	2-000 Z
IPM		ASBESTOS	83 10 11 NO	43	-58 F/CC	1-00-	2-000 Z
IPM		ASBESTOS	83 10 11 NO	43	1-01 F/CC	1-00-	2-000 Z
IPM		ASBESTOS	83 10 11 NO	43	-38 F/CC	1-00-	2-000 Z
IPM		ASBESTOS	83 11 04 HQZ	72	-29 F/CC	1-00-	2-000 Z
IPM	327000	ASBESTOS	83 11 04 HQZ	69	-13 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	83 11 04 HQZ	88	-41 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 01 11 HQZ	88	-56 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 01 13 HQZ	30	-49 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 01 13 HQZ	30	-41 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 01 20 HQZ	12	-18 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 01 20 HQZ	12	-03 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 03 02 HQZ	125	-35 F/CC	1-00-	500 R
IPM		ASBESTOS	84 04 06	123	-08 F/CC	1-00-	500
IPM		ASBESTOS	84 04 06	123	-10 F/CC	1-00-	500
IPM	327000	ASBESTOS	84 04 06 HQZ	121	-30 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 04 06 HQZ	120	-25 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 04 17 HQZ	111	-39 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 04 30 HQZ	145	-12 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 04 30 HQZ	145	-31 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 05 21 HQZ	20	-56 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 05 21 MZI	50	-59 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 05 21 JFC	40	-33 F/CC	1-00-	500 R
IPM	327000	ASBESTOS	84 05 21 HLZ	50	-10 F/CC	1-00-	500 R
IPM		ASBESTOS	84 06 14	345	-02 F/CC	1-00-	500
IPM		ASBESTOS	84 06 14	345	-03 F/CC	1-00-	500
IPM		ASBESTOS	84 06 14	345	-02 F/CC	1-00-	500
IPM		ASBESTOS	84 06 14	345	-02 F/CC	1-00-	500
IPM		ASBESTOS	84 06 14	345	-01 F/CC	1-00-	500
IPM		ASBESTOS	84 06 14	345	-01 F/CC	1-00-	500
IPM		ASBESTOS	84 06 14	345	-03 F/CC	1-00-	500

PROCESS OR UNIT	DEPT.	CONTAMINANT NAME	AT	JOB	SAMP	AIR	B-HOUR	EXPOSURE	RESP
	NO.				CLASS	CONC	T.W.A.	STANDARD	
					CODE		CMC.		
IPM		ASBESTOS	84 06 14		345	.03 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 03		350	.07 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 03		150	.00 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 03		150	.06 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 03		150	.07 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 09		150	.09 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 09		150	.35 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 09		150	.23 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 09		150	.11 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 10		195	.10 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 10		195	.09 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 10		195	.06 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 10		195	.06 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 11		205	.12 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 11		205	.14 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 11		205	.09 F/CC	1.00-	-500	
IPM		ASBESTOS	84 07 11		205	.14 F/CC	1.00-	-500	
LOWER BRIDGE		327000 ASBESTOS	84 03 17 HQZ		360	.20 F/CC	.15	-500 R	
LOWER BRIDGE		327000 ASBESTOS	84 03 17 HQZ		360	.09 F/CC	.07	-500 R	
LOWER BRIDGE		327000 ASBESTOS	84 03 17 HQZ		360	.15 F/CC	.11	-500 R	
LOWER BRIDGE		327000 ASBESTOS	84 03 17 HQZ		360	.10 F/CC	.07	-500 R	
LOWER BRIDGE		327000 ASBESTOS	84 03 17 HQZ		360	.12 F/CC	.09	-500 R	
MAIN CHEM COMPLEX		327000 ASBESTOS	84 09 11 HQZ		55	.25 F/CC	1.00-	-500 Z	
MAIN CHEM COMPLEX		327000 ASBESTOS	84 09 11 HQZ		55	.19 F/CC	1.00-	-500 Z	
MAINTENANCE		327000 ASBESTOS	83 12 09 HQZ		45	.36 F/CC	1.00-	-500 R	
MAINTENANCE		327000 ASBESTOS	83 12 09 HQZ		43	.14 F/CC	1.00-	-500	
MAINTENANCE		327000 ASBESTOS	83 12 30 HQZ		8	.92 F/CC	1.00-	-500 R	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		400	.22 F/CC	.22	-500 R	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		400	.14 F/CC	.14	-500 R	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		400	.05 F/CC	.05	-500 R	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		400	.02 F/CC	.02	-500 R	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		400	.11 F/CC	.11	-500 R	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		300	.07 F/CC	1.00-	-500	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		300	.01 F/CC	1.00-	-500	
MAINTENANCE		327000 ASBESTOS	84 03 03 HQZ		300	.00 F/CC	1.00-	-500	
MAINTENANCE		327000 ASBESTOS	84 09 06 HQZ		8	.82 F/CC	1.00-	-500 R	
MAINTENANCE		327000 ASBESTOS	84 09 17 HQZ		160	.31 F/CC	1.00-	-500	

UCC011570

REPORT A033

I.M. MONITORING DATA 1983 AND 1984 PLANT 534

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PROCESS OR UNIT	DEPT. NO.	CONTAMINANT NAME	AT JOE SAMP	AIR CLASS TOTL CODE TIME	8-HOUR EXPOSURE RESP I.M.-A. STANDARD CONC.
MICC	327000	ASBESTOS	84 05 23 HQZ	18	-40 F/CC
MICC	327000	ASBESTOS	84 05 23 HQZ	18	-24 F/CC
MICC	327000	ASBESTOS	84 05 31 HQZ	32	-73 F/CC
MICC	327000	ASBESTOS	84 05 31 HQZ	32	2-21 F/CC
MICC	327000	ASBESTOS	84 06 01 HQZ	170	-1-93 F/CC
MICC	327000	ASBESTOS	84 06 01 HQZ	305	-05 F/CC
MICC	327000	ASBESTOS	84 06 06 HQZ	45	1-59 F/CC
MICC	327000	ASBESTOS	84 06 19 HQZ	100	-14 F/CC
MICC	327000	ASBESTOS	84 06 19 HQZ	100	-14 F/CC
DILYARD	327000	ASBESTOS	83 10 24 HQZ	105	-14 F/CC
DILYARD	327000	ASBESTOS	83 10 24 HQZ	105	-13 F/CC
DILYARD	327000	ASBESTOS	83 11 02 HQZ	42	-84 F/CC
DILYARD	327000	ASBESTOS	83 11 02 HQZ	42	-57 F/CC
DILYARD	327000	ASBESTOS	84 02 09 HQZ	140	-21 F/CC
DILYARD	327000	ASBESTOS	84 02 09 HQZ	140	-12 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	83 10 17 HQZ	133	-02 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	83 10 17 HQZ	36	-06 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	83 10 17 HQZ	45	-13 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	83 10 17 HQZ	40	-05 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	83 10 17 HQZ	133	-04 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 10 HQZ	29	-30 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 10 HQZ	29	-38 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 17 HQZ	310	-07 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 17 HQZ	310	-46 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 23 HQZ	330	-06 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 23 HQZ	330	-42 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 02 23 HQZ	330	-08 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 03 15 HQZ	15	-49 F/CC
OXIDE ADDUCTS	327000	ASBESTOS	84 03 15 HQZ	15	-29 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 12 HQZ	33	-62 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 12 HQZ	33	-51 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 14 HQZ	195	-14 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 14 HQZ	206	-12 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 14 HQZ	206	-07
POLYMER POLYOL	327000	ASBESTOS	83 12 14 HQZ	206	-18 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 14 HQZ	288	-27 F/CC
POLYMER POLYOL	327000	ASBESTOS	83 12 14 HQZ	288	-01 F/CC
POLYMER POLYOL	327000	ASBESTOS	84 07 05 HQZ	30	-36 F/CC

UCC011571

PROCESS OR UNIT	DEPT. NO.	CONTAMINANT NAME	AT JOB CLASS	SAMP TOTAL	AIR CONC	9-HOUR T.M.A. STANDARD	EXPOSURE RESP
			CODE	TIME		COMC.	
UCAR SOLUTION VINYL	327000	ASBESTOS	84 02 16	HQZ 79	1.24 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 02 16	HQZ 79	.86 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 07 30	HQZ 33	.51 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 07 30	HQZ 33	.29 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 08 15	HQZ 270	.09 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 08 15	HQZ 270	.11 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 08 15	HQZ 270	.15 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 08 15	HQZ 270	.12 F/CC	1.00-	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 08 28	HQZ 60	.35 F/CC	.04	-500 R
UCAR SOLUTION VINYL	327000	ASBESTOS	84 08 28	HQZ 60	.45 F/CC	.05	-500 R
UICC	327000	ASBESTOS	84 01 06	HQZ 53	.52 F/CC	1.00-	-500 R
UICC	327000	ASBESTOS	84 01 06	HQZ 53	.69 F/CC	1.00-	-500 R
UICC	327000	ASBESTOS	84 01 06	HQZ 25	.35 F/CC	1.00-	-500 R
PLANT MIXTURES	004320	BENZENE	83 05 03	M114 340	.06 PPM	.03	1.000 Z
PLANT MIXTURES	049100	BUTANOL	83 02 22	JG2 165	1.40 PPM	.78	50.000 Z
NORTH CHARLESTON TERMINAL	228020	BUTYL ACRYLATE	83 01 13	JG2 255	.08 PPM	.04	5.000 Z
NORTH CHARLESTON TERMINAL	228000	BUTYL ACRYLATE	83 03 09	JG2 85	.05 PPM	.00	5.000 Z
NORTH CHARLESTON TERMINAL	228020	BUTYL ACRYLATE	83 02 04	JG2 55	.06 PPM	.00	5.000 Z
OILYARD	222040	BUTYL ACRYLATE	83 04 14	JG2 240	.88 PPM	.44	5.000 Z
OILYARD	222060	BUTYL ACRYLATE	83 03 15	JG2 420	.07 PPM	.07	5.000 Z
OILYARD	222060	BUTYL ACRYLATE	83 05 10	JG2 365	.22 PPM	.16	5.000 Z
OILYARD	222060	BUTYL ACRYLATE	83 05 12	JG2 325	.13 PPM	.06	5.000 Z
OILYARD	222060	BUTYL ACRYLATE	83 10 18	JG2 325	.29 PPM	.20	5.000 Z
OILYARD	225020	BUTYL ACRYLATE	84 06 21	JG2 285	.25 PPM	.15	5.000 Z
OILYARD	222060	BUTYL CARBITOL	84 02 02	JG2 285	.19 PPM	.11	5.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 04 19	JG2 60	.85 PPM	.40	25.000 Z
OILYARD	226100	BUTYL CELLOSOLVE	83 04 19	JG2 140	.24 PPM	.07	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 05 19	JG2 420	.09 PPM	.09	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 06 16	JG2 340	.16 PPM	.10	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 06 16	JG2 40	1.20 PPM	.100	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 07 12	JG2 420	.16 PPM	.14	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 07 12	JG2 420	.20 PPM	.20	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 07 20	JG2 340	.11 PPM	.09	25.000 Z
OILYARD	226110	BUTYL CELLOSOLVE	83 07 28	JG2 103	.42 PPM	.16	25.000 Z

UCC 011572

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
CARPNT	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
XPDTR	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
SUPRVSR	B	F	Z		Supervisor Non Technical (Does Not Supervise Hourly People)
TOOL CLK	G	X	Z	3	Tool Clerk
TK DRVR	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

