UNION CARBIDE
THE DISCOVERY COMPANY

Calidria ASBESTOS

UNION CARBIDE CORPORATION • MINING & METALS DIVISION • P.O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-285-3311

October 17, 1972

Marco Chemical Division
W. R. Grace & Company
Route 60 West
Bartow, Florida

Dear Sir:

We would like to have your permission to use the information obtained in the course of the tests conducted at your facility and to furnish it to other parties without identifying your facility as the location at which measurements were taken. The tests shall consist of taking measurements by the membrane filter method of airborne asbestos fiber generated in the course of one or more phases of your manufacturing operations.

If you agree to the foregoing, please so indicate by signing and returning the enclosed copy of this letter. Such action on your part shall constitute authorization to take such measurements at your facility and to use and disclose said information as detailed in this letter.

Very truly yours,

E. J. Kleber
Customer Service Representative

Accepted and Agreed to

this 18 day of

October, 1972:

Plt. Mgr.

PLAINTIFF'S EXHIBIT

UC-4519

X402375

[redacted] ARCO - BARTOW

1 - BACKGROUND - LOCATED 3 FT ABOVE CHARGE HOLE @ THIN TANK #1 (92 min)
0.09 f/ml - 0.05 mmpcf
CAB-O-SIL DUMP.

2 - PERSONAL - DUMPING APPROX 20 BAGS CAB-O-SIL INTO THIN TANK #2 (14 min)
0.25 f/ml - 0.32 mmpcf

3 - ENV - BAG "DROPPING" AREA 3 FT FROM CHARGE HOLE 5½ FT OFF FLOOR (16 min) DURING DUMP.
0.49 f/ml - 0.16 mmpcf

4 - ENV - 1ST DECK UNDER MIXER, CATCHING "FALLOUT" (21 min) DURING DUMP
0.18 f/ml - 0.10 mmpcf

5 - ENV - DIRECTLY OVER BAGS AFTER DUMP (NEXT TO DUST COLLECTOR) (41 min)
0.18 f/ml - 0.11 mmpcf.

6 - Same as #3, AFTER DUMP (39 min)
0.09 f/ml - 0.12 mmpcf

X402376

RG-244 DUMP

-7 PERSONAL — DUMPING APPROX. ~~[illegible]~~ 15 BAGS RG244
INTO THIN TANK #1 (21 min)
~~0.3~~ 0.68 f/ml — ~~0.07~~ 0.34 mmppcf

-8 - ENV. BAG DISPOSAL AREA - 5 FT FROM
(23 min) CHARGE HOLE DIRECTLY OVER BAGS
0.62 f/ml — 0.05 mmppcf

-9 ENV. 1ST DECK ON #1 THIN TANK
(24 min)
0.3 f/ml — 0.07 mmppcf

-10 — ENV. BAG STORAGE OVER BAGS
AFTER DUMP. NEXT TO DUST COLLECTOR
(24 m). 0.41 f/ml — 0.11 MMPPCF

X402377

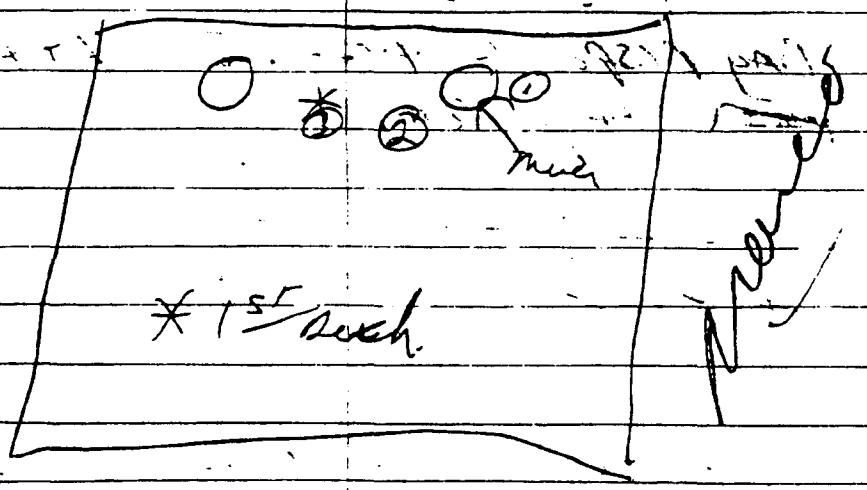
X3 Pump "A" Layer Treater

1127
0:59 THIN TANK #1

ENVIRONMENTAL - APPROX 3 FT
ABOVE CHARGE HOLE
EXHAUST NOT ON. RUNS TO
DUST COLLECTOR IN BLDG.
BLEND ROOM 2ND DECK

3 BLADE AGITATOR

NO VENTILATION OPEN DOOR



X402378

[illegible]

Dumpy [illegible] BAGS CAP-OSIC

12:52:10

[illegible] 06:05

[illegible]

#6 - ENV

1:02:55

12:52:00

Bag Disposal Area. 2-3 ft from ~~[illegible]~~ charge hole.

#3 - 1st Deck - ENV.

12:50:50

Directly under mixer, catching "fallout"

1:11:40

X402379

[illegible] #4

THIN TANK

Dump Stain

3:21:00 - 3:43:30

#97 - [illegible] near [illegible]

DISPOSAL AREA

ON STAIRS 5 FT FROM [illegible]

Hole

3:20:00

3:43:20

#51 - Personal - [illegible]

Dumping — Page 46 244

3:20:00

3:41:30

X402380

4 08 20

3 42 40

Bag Storage

Area = Directly

Over Bags

10/19/72

ASBESTOS

Dump

X402381

[illegible]

4 08 20

3 42 40

Bag Storage

Area - Directly

Over Bags

10/19/72

ASBESTOS

Dump

X402381

[illegible] 1:48:00

[illegible] 1:07:5

Bag Disposal

Directly over Bags (on Dust collector)

#94 1:08:20 - 1:47:15

Same as #61 (Bs 2) after Dup

X402382

Fiber COUNT Sheet

Sample #	93	43	17	17	61	61	3	3
time	92		14.0		16.0		20.0	
Flow								
1	0	32	0	26	0	13	0	23
2	0	30	0	53	0	31	0	13
3	0	29	0	43	0	33	0	18
4	1	42	0	34	0	29	0	14
5	0	45	0	27	0	17	0	13
6	0		0		1		0	
7	0		0		0	93	0	
8	0		0		0		0	
9	1		0		0		0	
10	0		0		0		0	
11	0		0		0		1	
12	0		1		0		0	
13	0		0		0		0	
14	0		0		0		0	
15	0		0		0		0	
16	0		0		0		0	
17	0		0		1		0	
18	0		0		0		0	
19	0		0		0		0	
20	0		0		0		0	
TOTAL	2	178	1	183	2	93	1	81
AVG	.1	34	.05	37	.1	19	.05	16
Field Area								
Filter Area								
Volume	165.4	5.85	28.0	0.99	28.8	1.02	40.0	1.41
Concentration	0.86	0.05	0.25	0.32	0.49	0.16	0.19	0.10
	0.09							
Fiber Ct x Filter Area								
Field Area x Sample Vol								

X402383

COUNT SHEET

Sample #	~~53~~	D 53	~~99~~	D 99	~~64~~	D 64	~~91~~	91
time	41.0		39.0		24.0		23.0	
flow								
1	0	47	0	48	0	17	0	15
2	0	34	0	20	0	11	0	3
3	1	35	0	45	0	13	0	10
4	0	36	0	43	0	15	0	8
5	0	41	0	37	0	10	0	11
6	0		0		0		1	
7	0		1		0		0	47
8	0		0		0		0	
9	0		0		0		0	
10	0		0		0		1	
11	0		0		0		1	
12	0		0		0		0	
13	0		0		0		0	
14	1		0		1		0	
15	0		0		0		0	
16	0		0		0		0	
17	0		0		1		1	
18	0		0		0		0	
19	0		0		0		0	
20	0		0		0		0	
TOTAL	2	193	1	193	2	66	4	
AVG	.1	38	.05	38	0.1		.2	9.4
FIELD AREA								
FILTER AREA								
VOLUME	82.0	2.89	78.0	2.75	~~48.0~~ 48.0	~~2.47~~ 1.69	46.0	1.62
CONCENTRATION	0.18	0.11	0.09	0.12	0.3	0.07	0.62	0.05

[illegible] x Filter area
[illegible] x Sample vol. [illegible]

X402384

COUNT SHEET

Sample #	[illegible]	0 51			78	78		75
time					24			
flow								
1	0	76			0	3	0	9
2	0	51			0	7	0	14
3	0	60			0	5	0	10
4	0	63			0	3	0	11
5	0	58			0	4	0	8
6	1				0		0	
7	0	308			0		0	
8	1				0		0	
9	0				0		0	
10	0				1		0	
11	0				0		0	
12	0				0		0	
13	0				0		0	
14	1				1		0	
15	0				0		0	
16	0				0		0	
17	0				0		0	
18	1				1		1	
19	0				0		0	
20	0				0		0	
TOTAL	4	308			3	22	1	42
AVG	0.2	62			0.15		0.05	
Field Area								
Filter Area								
Volume	42	1.48			52 pcu			
Concentration	0.68	0.36			0.41	0.1		

Concentration × Filter Area / Field Area × Sample Vol. Ad

X402385