

PLANT HILLSBORO

NO. 257

DUST COUNT SUMMARY

Date 3/21/77

Item No.	Location	DUST COUNT					Remarks
		Date/f/cc	Date/f/cc	Date/f/cc	Date/f/cc	Date/f/cc	
1	Fiber R.R. Car Unloading	1/3/76 ✓ 102					
2	Fiber Storage Warehouse						
3	Fiber Dump Station #1 #2	1/3/76 ✓ 102	12/3/76 ✓ 26				
4	Dry Mixing System						
5	Tray Loading Area						
6	M.E.O. Lathe #1						NOT OPERATED
7	M.E.O. Lathe #2	1/13/76 ✓ 26	12/3/76 ✓ 29				
8	M.E.O. Lathe #3	3/8/76 ✓ 47	3/8/77 ✓ 88				
9	Coupling Cut Off Mach.	12/3/76 ✓ 18	12/13/76 ✓ 34				
10	Coupling Cut Off Saw	3/8/77 ✓ 61					
11	Rework Saw - Dry	4/9/76 ✓ 101	1/13/76 ✓ 18	4/8/77 ✓ 145			
12	Rework Saw - Wet						
13	Short Length M.E.O. Lathe						
14	Fittings Lathe						
15	Coupling Boring Mill #1 - 30"						
16	Coupling Boring Mill #2 - 30"	4/29/76 ✓ 31	3/15/77 ✓ 44				
17	Coupling Boring Mill #3 - 30"	4/11/76 ✓ 49	3/14/77 ✓ 12				
18	Coupling Boring Mill #4 - 42"	12/10/76 ✓ 13	12/2/76 ✓ 11				
19	King Mill						
20	Horizontal Boring Mill						
21	F.M. Lathe #1 Small	4/5/76 ✓ 28					

CTD021198

MAR 23 1977

PLAINTIFF'S EXHIBIT

CT-1313

PLANT HILLSBORO
No. 257

DUST COUNT SUMMARY

Date 3/21/77

Item No.	Location	DUST COUNT					Remarks
		Date / f/cc	Date / f/cc	Date / f/cc	Date / f/cc	Date / f/cc	
22	F.M. Lathe #2 Large	9/2/76 ✓ * .16	10/2/76 ✓ * .15				* } SIMULT- * } ANEOUS ✓
23	F.M. Lathe #3	9/2/76 ✓ * .16					
24	Specialty Lathe						
25	Coupling O.D. Lathe						
26	Pencil Sharpener Lathe						
27	Fittings Drill Large Small						
28	Fittings Saw Dry Wet						
29	Scrap Crusher	1/2/76 ✓ * .13	2/3/76 ✓ * .19				
30	Fin. Dept. Room Area	12/16/76 ✓ * .08					
31	Dump Truck	5/8/77 ✓ * .05					
32	Epoxy Cleaning Station	4/9/76 ✓ * .71	3/7/77 ✓ * .46				
33	Pipe Machine	1/2/76 ✓ * .10	1/17/76 ✓ * .12				
34	Shipping Foreman						
35	FINISHING Shipping Fork Lift Operator		2/23/76 ✓ * .08				
36	Bag House Exhauster						
37	Hydrotester #1						
38	" #2						
39	" #3						
40	Flextester #1						
41	" #2						
42	" #3						

CTD021199

 Pipe & Plastics
Group

PLANT HILLSBORO

NO. 257

DUST COUNT SUMMARY

Date 8/22/77

Item No.	Location	DUST COUNT					Remarks
		Date / f/cc	Date / f/cc	Date / f/cc	Date / f/cc	Date / f/cc	
1	Fiber R.R. Car Unloading						
2	Fiber Storage Warehouse						
3	Fiber Dump Station #1 #2						
4	Dry Mixing System						
5	Tray Loading Area						
6	M.E.O. Lathe #1						
7	M.E.O. Lathe #2						
8	M.E.O. Lathe #3	2/18/77 .08	H-8				
9	Coupling Cut Off Mach.						
10	Coupling Cut Off Saw	2/18/77 .06	H-9				
11	Rework Saw - Dry						
12	Rework Saw - Wet						
13	Short Length M.E.O. Lathe						
14	Fittings Lathe						
15	Coupling Boring Mill #1 - 30"						
16	Coupling Boring Mill #2 - 30"	3/15/77 .44	H-8				
17	Coupling Boring Mill #3 - 30"	3/16/77 .12	H-8				
18	Coupling Boring Mill #4 - 42"						
19	King Mill						
20	Horizontal Boring Mill						
21	F.M. Lathe #1 Small	5/16/77 .30					

CTD021200

PLANT HILLSBORONo. 257

DUST COUNT SUMMARY

Date 8/22/77

Item No.	Location	DUST COUNT					Remarks
		Date/f/cc	Date/f/cc	Date/f/cc	Date/f/cc	Date/f/cc	
22	F.M. Lathe #2 Large						
23	F.M. Lathe #3						
24	Specialty Lathe						
25	Coupling O.D. Lathe						
26	Pencil Sharpener Lathe						
27	Fittings Drill Large Small						
28	Fittings Saw Dry Wet						
29	Scrap Crusher						
30	Fin. Dept. Room Area						
31	Dump Truck	2/18/77 1.05	W-8				
32	Epoxy Cleaning Station	3/17/77 1.40	W-8				
33	Pipe Machine						
34	Shipping Foreman						
35	Shipping Fork Lift Operator						
36	Bag House Exhauster						
37	Hydrotester #1						
38	" #2						
39	" #3						
40	Flextester #1						
41	" #2						
42	" #3						

CTD021201

PLANT <u>Hillbrow</u> #257		DUST COUNT SUMMARY					Date <u>4/10/78</u>
Item No.	Location	Date / F/cc	Date / F/cc	Date / F/cc	Date / F/cc	Date / F/cc	Remarks
1	Fiber R.R. Car Unloading	3/1/78 ✓ 56					<i>JACONIA</i>
2	Fiber Storage Warehouse						
3	Fiber Dump Station #1 #2						
4	Dry Mixing System	7/10/77 ✓ 14	7/26/77 ✓ 19				
5	^{VN-} Tray Loading Area	2/21/78 ✓ 08					
6	M.E.O. Lathe #1						
7	M.E.O. Lathe #2	10/17/77 ✓ 36					
8	M.E.O. Lathe #3	9/16/77 ✓ 31					
9	Coupling Cut Off Mach.	7/2/77 ✓ 17					
10	Coupling Cut Off Saw	7/5/77 ✓ 105					
11	Rework Saw - Dry	7/6/77 ✓ 88					
12	Rework Saw - Wet						
13	Short Length M.E.O. Lathe						
14	Fittings in the AREA	10/18/77 ✓ 04					
15	Coupling Boring Mill #1 - 30"						
16	Coupling Boring Mill #2 - 30"	4/5/78 ✓ 75					
17	Coupling Boring Mill #3 - 30"	4/6/78 ✓ 31					
18	Coupling Boring Mill #4 - 42"	2/1/78 ✓ 28					
19	COUPLING TESTER King Mill	3/2/78 ✓ 147					
20	Horizontal Boring Mill						
21	F.M. Lathe #1 Small	7/7/77 ✓ 24					

CTD021202

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APR 13 1978


 Pipe & Plastics
Group

PLANT <u>Hillbors</u>		DUST COUNT SUMMARY					Date <u>4/10/78</u>
No. <u>257</u>							
Item No.	Location	DUST COUNT					Remarks
		Date/f/cc	Date/f/cc	Date/f/cc	Date/f/cc	Date/f/cc	
22	F.M. Lathe #2 Large	2/17/78 26	} SIMULTANEOUS OPERATION				
23	F.M. Lathe #3	2/17/78 26					
24	Specialty Lathe						
25	Coupling O.D. Lathe						
26	Pencil Sharpener Lathe						
27	Fittings Drill Large Small						
28	Fittings Saw Dry Wet						
29	Scrap Crusher	2/23/78 15					
30	Fin. Dept. Room Area	2/14/78 17					
31	Dump						
32	Epoxy Cleaning Station	2/27/78 51					
33	Pipe Machine	2/23/78 08					
34	Shipping Foreman						
35	Shipping Fork Lift Operator						
36	Bag House Exhauster						
37	Hydrotester #1						
38	" #2 #60 FINISHING LIFT-TRUCK	2/13/78 31					
39	" #3 DUMP TRUCK OPERATOR						
40	CONFERENCE ROOM ELECTRICIAN	2/9/78 0					
41	" #2						
42	" #3						

CTD021203

 Pipe & Plastics
Group



CERTAINTEED PRODUCTS CORPORATION

TO (LOCATION): VALLEY FORGE P&PG	FROM (LOCATION): HILLSBORO
ATTENTION OF: Mr. J. J. Moscarello	DATE: June 16, 1975
ANSWERING YOURS: 6/10/65	DICTATED BY: N.G. Pocock:cc
SUBJECT: Mezzanine / Dust Counts	

40 8/87 cc: Mr. J. L. Anderson

1. We note, in the regulations you referred to, that:
"...the loads approved by the building official shall be marked
on plates of approved design..." Do you have information ex-
plaining "approved design?"

2. Please find enclosed copies of our latest dust counts
as you requested.

Thank you.

Enc.

RECEIVED

JUN 23 1975

P&PG ENGINEERING

CTD021180

HILLSBORO

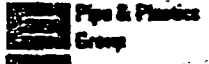
RECAP OF OPERATIONS

H-3

PLANT HILLSBORODATE 2/3/75

LOCATION NUMBER	(Manufacturing Dept.) OPERATION	OPERATOR CLASSIFICATION TITLE
Loc. M1	Fiber unloading	Laborer Lift-truck operator
M2	Fiber mixing	Mixer Operator
M3	Pipe machine	Machine tender Press Operator

REMARKS:



CTD021181

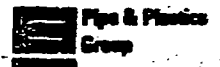
**HILLSBORO
RECAP OF OPERATIONS**

PLANT Hillsboro

DATE 2/3/75

Location NUMBER	(Finishing Dept.)	OPERATION	OPERATOR CLASSIFICATION TITLE
Loc. F1	No. 1 line lathe		Lathe operator
F2	No. 2 line lathe		" "
F3	No. 3 line lathe		" "
F4	No. 1 Fmlathe		F.M. lathe operator
F5	No. 2 " "		" " "
F-6	No. 3 " "		" " "
F-7	No. 1 Boring Mill		Boring Mill Operator
F-8	No. 2 " "		" " "
F-9	No. 3 " "		" " "
F-10	No. 4 " "		" " "
F-11	Large coupling saw		Saw operator
F-12	Random saw		" "
F-13	Coupling cut-off machine		Cplg.cut-off operator
F-14	Lift-truck (Hyster Model 60)		Lift-truck operator
F-15	North aisle area		Miscellaneous

REMARKS:

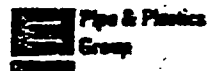


CTD021182

HILLSBORO

RECAP OF OPERATIONSPLANT HillsboroDATE 2/3/75

Location		OPERATION	OPERATOR
NUMBER	(Shipping Dept.)		CLASSIFICATION TITLE
Loc. S1	Dump Truck		Dump truck operator
S2	Scrap Crusher		Scrap crusher operator
S3	Truck loading		Laborer (truck-loading)
			Lift-truck operator
REMARKS:			



CTD021183

HILLS BORO
RECAP OF OPERATIONS

PLANT Hillsboro

DATE 2/3/75

Location

OPERATOR
CLASSIFICATION
TITLE

NUMBER (Epoxy Dept.)

OPERATION

Loc. E 1

Cleaning Station

Cleaning station operator

REMARKS:

CTD021184

 Pipe & Plastics
Group

HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

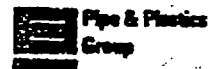
Filter 37 mm Millipore Field Monitor with Filter

1.7 L/Min

Mfg. Dept. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. M1</u>	3.31 ✓	7/8/74						
Fiber unloading	.126 ✓	8/6/74						
	.45 ✓	8/8/74						
	.34 ✓	2/13/75						
	.28 ✓	2/14/75						
	.43 ✓	2/17/75						
<u>Loc. M2</u>	1.0 ✓	2/2/71						
Fiber mixing	.81 ✓	4/3/73						
	.03 ✓	4/3/73						
	1.06 ✓	4/17/74						
	1.64 ✓	6/11/74						
	1.69 ✓	8/11/74						
<u>Loc. M3</u>								
Pipe Machine	.35 ✓	7/22/74						
	.24 ✓	7/24/74						
	.085 ✓	2/20/75						
	.30 ✓	4/7/75						

REMARKS:

CTD021185



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

1.7 L/Min

Finishing Dept. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. F1</u> No. 1 line lathe								
<u>Loc. F2</u> No. 2 line lathe	<1.0 .12 .15 .11 .082 .25	12/2/71 11/16/72 11/28/72 4/3/73 4/1/74 7/10/74	} Trans (H-4)					
<u>Loc. F3</u> No. 3 line lathe								
<u>Loc. F4</u> No. 1 FM lathe								
<u>Loc. F5</u> No. 2 FM lathe	.67 .71 .45	11/16/72 11/28/72 4/3/73	} Trans (H-4)					
<u>Loc. F6</u> No. 3 FM lathe								

REMARKS:

CTD021186



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

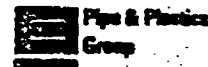
Filter 37 mm Millipore Field Monitor with Filter

1.7 L/Min

Finishing Dept LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. F 7</u>								
No. 1								
Boring Mill								
<u>Loc. F 8</u>								
No. 2								
Boring Mill								
<u>Loc. F 9</u>	1.0 ✓	12/2/71 ✓	TRADUC (H-4)					
	.63 ✓	11/16/72 ✓						
No. 3	.39 ✓	11/28/72 ✓						
	.65 ✓	4/3/73 ✓						
Boring Mill	1.79 ✓	10/28/74 ✓						
	.86 ✓	11/1/74 ✓						
<u>Loc. F 10</u>	1.0 ✓	12/2/71 ✓	TRADUC (H-4)					
	.59 ✓	11/16/72 ✓						
No. 4	.59 ✓	11/28/72 ✓						
	.09 ✓	4/3/73 ✓						
Boring Mill	.28 ✓	6/7/74 ✓						
<u>Loc. F 11</u>	1 ✓	12/2/71 ✓	TRADUC (H-4)					
	.33 ✓	11/16/72 ✓						
	.18 ✓	4/3/73 ✓						
Large Coupling Saw								
<u>Loc. F 12</u>	.40 ✓	11/16/73 ✓	TRADUC (H-4)					
	.34 ✓	4/3/73 ✓						
	.44 ✓	4/9/74 ✓						
Random Saw								

REMARKS:

CTD021187



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

1.7 L/Min

Finishing Dept. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
Loc. F13 Coupling Cut-off machine								
Loc. F14 Lift-truck (60)	.15	6/19/74						
Loc. F15 North aisle area	.125 .24	3/19/75 4/7/75						

REMARKS:

CTD021188



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

1.7 L/Min

SHIPPING DEPT. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. S1</u> Dump Truck	.30	4/19/74						
<u>Loc. S2</u> Crusher	.26	4/3/73						
<u>Loc. S3</u> Truck Loading	.02	4/3/73						

REMARKS:

CTD021189



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

1.7 L/Min

LOCATION	Test Results - Fibers per Cubic Centimeter or Air								
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date	
<u>Loc. El</u>	.21 ✓	4/3/73							
	.82 ✓	4/3/73							
Epoxy Cleaning Station	.35 ✓	4/24/74							

REMARKS:

CTD021190





CERTAIN-TEED PRODUCTS CORPORATION

TO (LOCATION): Valley Forge P&PG	FROM (LOCATION): Hillsboro H-5
ATTENTION OF: Mr. A. Kramer	DATE: April 10, 1974
ANSWERING YOURS: 3/26/74	DICTATED BY: N.G. Pocock:cc <i>[Signature]</i>
SUBJECT: DUST COUNTS	

The dust counts you specifically requested are as follows:

Date	Operation	No. of fibers $> 5 \mu\text{m}/\text{c.c.}$
April 1973	Epoxy cleaning station (South End)	02
"	" " " (Operator End)	01
"	Random Saw Operator (Personal)	03
April 9, 1974	" " " (Personal)	04

Summary on H-5

Since all our dust counts since Nov. 1972 are within required OSHA limits, we would like to concentrate on our noise problem, and would, therefore, appreciate it if you would send us the noise dosimeter and instruction book.

Thank you.

*Rich To call Bill Phillips,
a unit inspector by phone
with me 4/5/74*

RECEIVED APR 15 1974

CTD021191



CERTAIN-TEED PRODUCTS CORPORATION

TO (LOCATION): Valley Forge P&PG	FROM (LOCATION): Hillsboro H-7
ATTENTION OF: Mr. Gabriel Stelian	DATE: October 24, 1974
ANSWERING YOURS: Ref. your tele. call 10/23/74	DICTATED BY: N.G. Pocock:cc <i>[Signature]</i>
SUBJECT: FIBER COUNTS	

cc: Mr. W. R. Krause

<u>Sample No.</u>	<u>Date of Count</u>	<u>Operation</u>	<u>No. Fibers > 5µm/cc</u>	
20	7/24/74	As for #19 but p/machine down 1.5 hrs.	.24	3
<i>410</i> 21	7/29/74	Fin. Dept. W. wall vending machines/ lunchroom door	.097	14-6
22	8/1/74	Fiber dumping W. wall behind elevator	1.69	12-3
23	8/6/74	Fiber shed N. wall un- loading S fiber	.126✓	1-3
24	8/8/74	Fiber unloading (BTAD) Joe Hughes, truck oper.	.45✓	14-3

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CTD021192

File
fibers

Hillsboro

H-6

Fiber Concentration

<u>Sample No.</u>	<u>Date & count</u>	<u>Operation</u>	<u>No. Fibers > 5 μm / c.c.</u>
2	4/1/74	Fin. lathe #2 line E.	.082 H-3
3	4/3/74	Control blank	0
4	4/9/74	Random saw	.44 H-3
5	4/17/74	Practice count	1.00 H-3
6	4/17/74	Mixer man	1.06 H-3
7	4/19/74	Dump truck operator	.30 H-3
8	4/24/74	Epoxy cleaning station	.85 H-3
9	5/23/74	Practice count Boring Mill #3	1.158 1.38 OK
10			
11			
12	6/7/74	Mixer Man - Too heavy for count.	---
13	6/7/74	#4 Boring Mill	.28 H-3
14	6/11/74	Mixer Man CTD021197	1.64 H-3
15	6/19/74	Finishing #60 Hyster Driver	.45 H-3
16	6/28/74	Fiber Shed. N. Wall	.062 ✓
17	7/8/74	Fiber unloading ^{Grade} (S) Truck operator	3.31 H-3
18	7/10/74	Fin. lathe #2 line W.	.25 H-3
19	7/22/74	Aisle W. of Pipe Machine	.35 H-3
20	7/24/74	As for #19 but pipe machine down 1.5 hrs.	.24 H-3
21	7/29/74	Fin. Dept. W. wall ^{grading machines} by lunchroom door	.097 ✓
* 22	8/1/74	Fiber dumping. W. wall behind elevator	1.69 H-3

COMPLIANCE WITH OSHA STANDARDS
STANDARDS FOR 1974 - 75 -- 5 FIBRES/CC
STANDARDS FOR 1976 - 2 ASBESTOS FIBRES/CC

-- A/C PIPE PLANTS DATA --

FIBRES PER C.C.

PLANT

TYPICAL

MAXIMUM

Santa Clara

.20

.60

Hillsboro

.30

1.70

Ambler

1.00

4.00

St. Louis

1.30

3.70

Riverside

1.20

3.00

Average

.80

2.60

This is the Flip Chart information presented to the Operating Committee by John McGinley about two months ago.

CTD021204

HILLSBORO

Sheet 7A

DUST COUNT SUMMARY

Date

4/12/76

Item No.	Location	Plant No.					Remarks
		256	257	258	259	260	
1	Fiber R.R. Car Unloading		1.88*				
2	Fiber Storage Warehouse						
3	Fiber Dump Station #1 #2		.07				
4	Dry Mixing System		.07				
5	Tray Loading Area						
6	M.E.O. Lathe #1						
7	M.E.O. Lathe #2		.25				
8	M.E.O. Lathe #3		.47				
9	Coupling Cut Off Mach.		.39				
10	Coupling Cut Off Saw		.18				
11	Rework Saw - Dry		.44				
12	Rework Saw - Wet						
13	Short Length M.E.O. Lathe						
14	Fittings Lathe						
15	Coupling Boring Mill #1 - 30"						
16	Coupling Boring Mill #2 - 30"						
17	Coupling Boring Mill #3 - 30"		.86				
18	Coupling Boring Mill #4 - 42"		.28				
19	King Mill						
20	Horizontal Boring Mill						
21	F.M. Lathe #1 Small		.28				

UP
TO DATE
NOT THIS DATE

CTD021205

* BTAD fiber, previous samples concentration < 1.0

Pipe & Plastics
Group

DUST COUNT SUMMARY

Date 4/12/76

Item No.	Location	Plant No.					Remarks
		256	257	258	259	260	
22	F.M. Lathe #2 Large		.23				
23	F.M. Lathe #3						
24	Specialty Lathe						
25	Coupling O.D. Lathe						
26	Pencil Sharpener Lathe						
27	Fittings Drill Large Small						
28	Fittings Saw Dry Wet						
29	Scrap Crusher		.26				
30	Fin. Dept. Room Area		.34				
31	Dump		.38				
32	Epoxy Cleaning Station		.71				
33	Pipe Machine		.38				
34	Shipping Foreman		.02				
35	Shipping Fork Lift Operator						
36	Bag House Exhauster						
37	Hydrotester #1						
38	" #2						
39	" #3						
40	Flextester #1						
41	" #2						
42	" #3						

CTD021206

DUST COUNT SUMMARY

Date

3/14/76

Item No.	Location	Plant No.					Remarks
		256	257	258	259	260	
1	Fiber R.R. Car Unloading		1.88*	3/76 .56		3/76 1.77	
2	Fiber Storage Warehouse	12/75 .20					
3	Fiber Dump Station #1 #2	12/75 .18	.07	2/76 .13	2/76 .23	1/76 1.45	
4	Dry Mixing System				2/76 .29	3/76 1.293	
5	Tray Loading Area			3/76 .25			
6	M.E.O. Lathe #1	12/75 .44		3/76 .74			
7	M.E.O. Lathe #2	12/75 .20	.25	1/76 .13		4/7/76 .424	
8	M.E.O. Lathe #3		.47	2/76 .67	11/75 .76		
9	Coupling Cut Off Mach.	12/75 1.3	.39	—		3/25/76 1.37	
10	Coupling Cut Off Saw	4/75 .65	.18	11/75 1.18	3/76 .28	1/76 1.06	
11	Rework Saw - Dry	2/76 .40	.44	11/75 .81	3/76 .23		
12	Rework Saw - Wet	12/74 1.6		2/76 1.01			
13	Short Length M.E.O. Lathe	5/75 .40		1/76 1.69			
14	Fittings Lathe	12/75 .55					
15	Coupling Boring Mill #1 - 30"	12/75 .25		2/76 1.05	3/76 .11	4/76 .64	
16	Coupling Boring Mill #2 - 30"			1/76 .66			
17	Coupling Boring Mill #3 - 30"		.86		7/75 1.33		
18	Coupling Boring Mill #4 - 42"		.28	1/75 .60		4/76 .116	
19	King Mill					1/76 2.09	
20	Horizontal Boring Mill	1/76 1.9		2/75 .88			
21	F.M. Lathe #1 Small	12/75 .13	.28	4/76 .19		11/75 .30	

* BTAD Filter, Previous Samples Concentration < 1.0

Hillsboro Counts - Dates 4/12/76



CTD021207

DUST COUNT SUMMARY

Date 4/14/76

Item No.	Location	Plant No.					Remarks
		256	257	258	259	260	
22	F.M. Lathe #2 Large		.23	^{4/76} .997			
23	F.M. Lathe #3						
24	Specialty Lathe			^{3/76} 1.56			
25	Coupling O.D. Lathe						
26	Pencil Sharpener Lathe			^{1/76} .54			
27	Fittings Drill Large Small	^{12/75} 1.2		^{11/75} 1.29			
28	Fittings Saw Dry Wet			^{4/76} 2.87			
29	Scrap Crusher	^{12/75} .50	.26	^{1/76} .47			
30	Fin. Dept. Room Area	^{12/75} .70	.24				
31	Dump		.30				
32	Epoxy Cleaning Station		.71				
33	Pipe Machine		.30				
34	Shipping Foreman		.02			^{11/75} .0049	
35	Shipping Fork Lift Operator					^{11/75} .46	
36	Bag House Exhauster					^{11/75} .0037	
37	Hydrotester #1						
38	" #2						
39	" #3						
40	Flextester #1						
41	" #2			^{3/76} .146	^{3/76} .146		
42	" #3						

HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

2.0 L/min

H-11
monitors
Q

actually #1

Finishing Dept. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
Loc. F1 No. 1 line lathe								
Loc. F2 No. 2 line lathe	< 1.0 .12 .15 .11 .002 .25	12/2/77 11/16/77 11/28/77 4/3/78 4/11/78 7/18/78	.26 .09 .36 .09 .22	4/13/76 12/3/76 10/19/77 6/9/78 7/18/78	.16 .17	4/9/79 11/2/79		
Loc. F3 No. 3 line lathe	.128 .47 .08 .31	11/10/75 3/8/76 3/18/77 9/16/77	.10 .12	12/1/78 4/24/80				
Loc. F4 No. 1 FM lathe	.28 .30 .24 .27	4/5/76 5/6/77 9/27/77 11/20/78	.15 .23	7/30/79 4/30/80				
Loc. F5 No. 2 FM lathe	.67 .71 .45 .23 .16	11/16/77 11/28/77 4/3/78 11/13/75 9/22/76	.45 .26 .16 .13 .16	12/9/76 2/17/78 7/14/78 4/10/79 7/31/79	.20	4/30/80		
Loc. F6 No. 3 FM lathe	.16 .26 .36	8/22/76 2/17/78 11/22/78	.16 .26	7/31/79 7/31/79	.20	4/30/80		

REMARKS:

*Simultaneous

✓

Pipe & Plastics
Group

CTD021209

HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

2.0 L/p.m.

Finishing Dept LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. F 7</u> No. 1 Boring Mill	Discontinued-See F21							
<u>Loc. F 8</u> No. 2 Boring Mill	.31	4/29/76	.52	9/6/78	See F21-Renumbered "No. 1 Boring Mill"			
	.44	3/15/77	.12	4/10/79	<i>Used in computer</i>			
	.75	1/25/78						
	.38	1/17/78						
<u>Loc. F 9</u> No. 3 Boring Mill	<1.0	12/2/71	.49	4/21/76	.16	12/11/78	See F22-Renumbered No. 2 Boring Mill <i>Used in comp.</i>	
	.63	11/16/72	.12	3/16/77	.04	7/24/79		
	.59	11/28/72	.31	1/26/78				
	.65	4/3/73	3.00	7/20/78				
	1.79	10/28/74	.16	12/8/78				
	.86	11/1/74						
<u>Loc. F 10</u> No. 4 Boring Mill	<1.0	12/2/71	.13	12/20/76	See F23-Renumbered "No. 3 Boring Mill"			
	.59	11/16/72	.11	12/3/76	<i>Used in comp.</i>			
	.59	11/28/72	.28	2/1/78				
	.09	4/3/73	.15	11/17/78				
	.28	6/7/77	.06	7/26/79				
<u>Loc. F 11</u> Large Coupling Saw	<1	12/2/71	.70	6/8/78				
	.33	11/16/72	.85	4/17/79				
	.18	4/3/73						
	.61	3/18/77						
	1.05	9/15/77						
<u>Loc. F 12</u> Random Saw	.40	11/16/73	1.01	4/19/76	.55	4/20/78	1.26	5/16/80
	.34	4/3/73	.45	1/28/77	.46	11/17/78		
	.44	4/19/77	1.8	12/3/76	.70	4/10/79		
			.88	10/26/77	.27	11/15/79		
					.87	6/16/80		

REMARKS:

CTD021210

 Pipe & Plastics
Group

(14-11)

HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

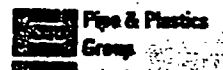
Filter 37 mm Millipore Field Monitor with Filter

2.0 l/p.m.

Mfg. Dept. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. M1</u> Fiber unloading	3.31	7/8/74	✓.68	10/28/75	✓.04	11/2/79		
	.126	8/8/74	✓1.88	10/29/75				
	.45	8/8/74	✓.02	12/3/75				
	✓.34	2/13/75	✓.56	3/1/78				
	✓.28	2/14/75	✓.07	4/12/79				
	✓.43	2/17/75						
<u>Loc. M2</u> Fiber mixing	<1.0	2/2/71	✓.07	4/2/78	✓.22	7/6/79		
	✓.61	4/3/73	✓.26	12/3/76	✓.54	11/9/79		
	✓.03	4/3/73	✓.14	9/20/77				
	1.06	4/17/74	✓.19	9/26/77				
	1.64	6/11/74	✓.34	12/7/78				
	1.69	8/1/74						
<u>Loc. M3</u> Pipe Machine	✓.35	7/22/74	✓.10	4/12/76	✓.02	1/3/79		
	✓.24	7/24/74	✓.12	12/1/76	✓.23	7/9/79		
	✓.085	2/20/75	✓.03	1/23/78	✓.08	11/9/79		
	✓.30	4/7/75	✓.05	1/3/79				

REMARKS:

CTD021211



DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

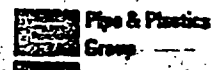
2.0

1.7 L/Min

LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. F 1 B</u>	✓.27	5/6/80						
B Finishing line lathe								

REMARKS:

CTD021212



DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

2.0

1.7 L/Min

LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>M3B</u> Manufacturing "B" Plant Pipe machine	.07	2/27/80						
<u>M2B</u> Manufacturing "B" Plant Mixing area	.41	2/28/80						
	.35	2/28/80						

REMARKS:

CTD021213

 Pipe & Plastics
Group

DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

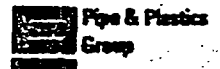
Filter 37 mm Millipore Field Monitor with Filter

2.0 L/p.m.

LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
Conference Room	-0- ✓	3/9/78						
I.E. Office by time clock	.017 ✓	6/22/79						
Q.C. Lab. Tech. Sampling fiber	✓2.1	1/11/80	✓.23	2/15/80				
Q. C. Lab Area	✓.03 ✓.05	1/11/80 2/15/80	✓.03	3/19/80				

REMARKS:

CTD021214



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

2.0 L/pam

LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
Loc. El	.21 ✓	4/8/73 ✓	.71	4/9/76 ✓				
	.82 ✓	4/8/73 ✓						
Epoxy	.35	4/24/74	1.46	3/17/77 ✓				
Cleaning			.51	1/27/78				
Station			.61	4/12/79				

REMARKS:

CTD021215



HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

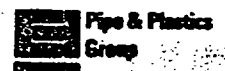
Filter 37 mm Millipore Field Monitor with Filter

2.0 L/p.m.

SHIPPING DEPT. LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. S1</u>								
Dump Truck	.30 .05 ✓	4/19/77 3/18/77 ✓						
<u>Loc. S2</u>								
Crusher	.26 ✓ .13 ✓ .19 ✓	4/3/73 ✓ 7/22/76 ✓ 12/3/76 ✓	.15 ✓ .18 ✓	2/23/78 4/10/79				
<u>Loc. S3</u>								
Truck Loading	.02 ✓	4/3/73 ✓						

REMARKS:

CTD021216



DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

2.0

1.7 L/Min

LOCATION	Test Results - Fibers per Cubic Centimeter or Air							
	Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. F19</u> #2 Small core drill	.07	7/26/79						
<u>Loc. F20</u> Fittings Lathe	.15	11/15/79						
<u>Loc. F21</u> No. 1 Boring Mill (See also F8)	1.60 3.30	4/29/80 5/16/80						
<u>Loc. F22</u> No. 2 Boring Mill (See also F9)	.17	5/1/80						
<u>Loc. F23</u> No. 3 Boring Mill (See also F10)								
<u>Loc. F24</u> Boring mill Cplg. Palletizer	.25	5/15/80						

REMARKS:

CTD021217

HILLSBORO
DUST SAMPLING RECORD

Material Analyzed - Asbestos

Model S

Filter 37 mm Millipore Field Monitor with Filter

2.0 l/p.m.

Finishing Dept.		Test Results - Fibers per Cubic Centimeter or Air							
LOCATION		Fibers	Date	Fibers	Date	Fibers	Date	Fibers	Date
<u>Loc. F13</u>		✓.39	10/29/75	✓.13	4/23/80				
		✓.34	12/13/76						
Coupling		✓.18	12/3/76						
Cut-off machine		✓.17	9/22/77						
		✓.23	7/26/78						
		✓.36	6/9/79						
<u>Loc. F14</u>				✓.31	2/13/78				
Lift-truck				✓.08	11/20/78				
(60)				✓.05	7/23/79				
		✓.15	6/19/74						
		✓.08	9/23/76						
<u>Loc. F15</u>				✓.16	12/7/78				
North aisle		✓.125	3/19/75						
area		✓.24	4/7/75						
7 in Dept		✓.08	12/16/76						
		✓.17	2/14/78						
<u>Loc. F 16</u>									
Fittings area		✓.04	10/18/77						
		✓.47	12/1/78						
<u>Loc. F 17</u>									
Tray Unloading		✓.08	2/21/78						
<u>Loc. F 18</u>									
Coupling Tester		✓.47	3/2/78						
		✓.22	12/1/78						
		✓.66	7/30/79						

REMARKS:

CTD021218

Valley Forge P&G

Hillsboro

Mr. W. R. Krause

July 22, 1974

Ref. Your Tele.Call 7/22/74

N.G.Kocock:cc

FIBER COUNTS

cc: Mr. J. L. Anderson

Here are the results to date of all fiber counts made at this plant using our own equipment for sampling and counting.

Sample No.	Date of Count	Operation	No. of Fibers > 5 μ m/c.c.	
2	4/1/74	Fin. Lathe #2 Line E.	.082	12-3
3	4/3/74	Control blank	(zero)	
4	4/9/74	Random saw	.44	12-3
6	4/17/74	Mixer man	1.06	12-3
7	4/19/74	Dump truck operator	.30	12-3
8	4/24/74	Epoxy cleaning station	.35	12-3
13	6/7/74	#4 Boring mill	.28	12-3
14	6/11/74	Mixer man	1.64	12-3
15	6/19/74	Fin. # 60 Hyster driver	.15	12-3
16	6/28/74	Fiber shed N. wall	.062	12-6
17	7/8/74	Fiber unloading Grade (s) truck operator	3.31✓	12-3
18	7/10/74	Fin. lathe #2 line W.	.25	12-3
19	7/22/74	Aisle W. of pipe machine	.35	12-3

CTD021219

INDUSTRIAL HYGIENE SURVEY DATA SHEET

Hillsboro

INSTRUMENT USED

MANUFACTURER

MODEL

SERIAL NO.

DATE CALIBRATED

SAMPLE NUMBER	LOCATION	SAMPLING TIME	FLOW RATE	SAMPLER POSITION	CREW NO.	EXPOSURE TIME	SAFETY CONTROLS	CONCENTS	DATE
Personal pump Mylar Type AA filters (open face)	MSA	S	Part No. 458475						3/7/74
1	Monitor used for pump calibration only.				082	8 hrs (ind. break)	Local exhaust	8"200	4/1/74
2	Finishing #2 line lathe E. Old Nelson	5 H 45 M	1.9	Personal	0.44	8 hrs (ind. break)	Local exhaust	6"150	4/9/74
3	Blank for control count				-0-				
4	Random Saw J. Foster	7 H 10 M	1.9	Personal	1.0	7 hrs 40 M (ind. break)	Local exhaust	Operator rooms yard, etc.	4/17/74
5	Mixer Man B. Hayes	3 H 51 M	1.9	Personal	1.06	8 hrs (ind. break)	Local exhaust	6 dumps	4/17/74
6	Mixer Man T. Woodruff	3 H 35 M	1.9	Personal	0.30	8 hrs (ind. break)	Local exhaust		4/19/74
7	Dump Truck, hopper, wood saw C. Jones	7 H 24 M	1.9	Personal	.35	8 hrs (ind. break)	Local exhaust	8"150	4/23/74
8	Epoxy cleaning str. (E. Foster)	Monitor dead face 40 M	1.9	Personal	1.58	8 hrs (ind. break)	Local exhaust	Sawing 12" 150 on small saw	5/2/74
9	#3 Boring Mill J. Slovack				?	"	"	8"150	5/2/74
10	#3 Boring Mill J. Slovack	1 H 51 M	1.9	"	?	"	"	8"150	5/2/74
11	Mixer Man J. Russell	3 H 19 M	1.9	"	?	"	"		5/31/74
12	Mixer man J. Chambers	6 H 42 M	1.9	"	?	"	"		6/3/74
13	#4 Boring Mill J. Slovack	5 H 10 M	1.9	"	?	"	"		6/15/74

CTD021193

INSTRUMENT USED

MANUFACTURER

MODEL

SERIAL NO.

DATE CALIBRATED

Hillsboro

SAMPLE NUMBER	LOCATION	SAMPLING TIME	FLOW RATE	SAMPLER POSITION	CREW NO.	EXPOSURE TIME	SAFETY CONTROLS	COMMENTS
14	Mixer Man J. Chambers	2 H 13 M P/S	1.9	Personal	1.64	8 hrs	Local exhaust & respirator	6/7/74
15	Finishing #60 Hyster Driver Al Seilik	7 H 58 M	1.9	Personal	1.15	8 hrs		6/18/74
16	Fiber Shed. North wall	6 H 12 M	1.9	General area	0.062			Wind out of N. Dock door open 6/27/74
17	Unbracing (S) Fiber Joe Hughes - Hyster driver	2 H 49 M	1.9	Personal	3.31	8 hrs	Respirator	7/8/74
18	Finishing line date #2 Ward Operator W. Neil	6 H 8 M	1.9	Personal	0.25	8 hrs	Local exhaust	6" 150 7/9/74
19	Manufacturing Pipe Machine W. A. Miller. Top of pendant panels.	7 H 36 M	1.9	Breathing Zone	0.35 2-3	8 hrs in general area	Enclaves, local exhaust	7/19/74
20	As above #19, but mounted 2' higher	(P/S m/c down for 15 H) 6 H 34 M	1.9	"	0.24 "	"	"	Siphon valve distict shut off during sampling period. 7/23/74
21	Finishing Dept. W. wall - between lunchroom & vending machine	7 H 8 M	1.9	"	0.097	8 hrs in general area	"	7/26/74
* 22	Fiber dumping W wall behind elevator.	1 H 28 M	2.0	"	1.09		"	7/31/74

CTD021194

Hillsboro

*

ASBESTOS COUNT RECORD SHEET

SAMPLE # 22 OPERATION Fiber dumping. W. wall behind elevator
 FLOW 2 TIME 88 VOLUME 176 DATE 8/1/74
 INITIALS NgP F.AREA 0064 BLK.CNT.AV. 0
 AV. COUNT 2.22 CONCENTRATION 1.69 fibers > 5µm/cc
 COMMENTS (Short duration sample for demonstration purposes)

0	2	1		
	1	2		
	4	2		
	4	2		
	2	4		
5	0	1		
	4	1		
	1	0		
	2	4		
10	5	0		
	3	1		
	1	3		
	2	2		
	1	0		
15	1	4		
	6	1		
	2	3		
	4	6		
	1	3		
20	5	0		
	1	2		
	3	2		
	2	4		
	2	2		
25	1	1		
SUB-TOTALS		60	51	

$$\frac{111}{50} = 2.22$$

$$C = \frac{2.22 \times 855}{0.0064 \times 176 \times 1000} = 1.69$$

CTD021195

RECEIVED

AUG 5 1974

P. & P. I.

CTD021196