

TABLE

Dust/Fiber Exposures

PLAINTIFF'S EXHIBIT

CT-1210

No.	Position Location (Date)	Name/Area	Analysis for	Time	Min.	Result	TWA for Sample Period	Over Limit	Remarks
01	Fiber Warehouse (12/7/79)	Area Sample	Fiber	8:50-1:25p	275	0.48 f/cc	0.48 f/cc	NO	
02	Mixer Operator (12/3/79)	R. Dorin	Fiber	6:50-9:00a	130	3.0 f/cc	1.7 f/cc	NO	Manufacturing 8" 2400 Pipe
03				9:00-10:05a	65	0.38 f/cc			
05				12:33-1:57p	84	0.81 f/cc			
04			Total Dust	10:05-12:33p	148				
06	Mixer Operator (12/7/79)	R. Dorin	Fiber	10:07-10:47a	40	2.7 f/cc	4.0 f/cc	YES	Dumping Fiber
07				10:47-11:19a	32	5.9 f/cc			Staged Fiber/Waiting
08				11:19-11:45a	26	3.6 f/cc			Dumping Fiber
09	Fiber Dump Station (12/3/79)	Area Sample	Fiber	9:25-9:55a	30	2.4 f/cc	0.91 f/cc	NO	Pump hanging on front of dump station 1' above opening. Manufacturing 8" 2400 Pipe
011				12:35-2:45p	130	0.56 f/cc			
010			Total Dust	9:55-12:35p	220				
012	2nd Floor Manufacturing (12-7-79)	Area Sample	Fiber	7:55-1:30p	335	>0.82 f/cc	>0.82 f/cc	NO	Near Mixers Manufacturing 6" 150 pipe
013	(12/7/79)	Area Sample	Fiber	7:55-1:30p	335	>0.79 f/cc	>0.79 f/cc	NO	Near Fines Bin
014	Blender Area (12/3/79)	Area Sample	Fiber	9:23-10:00a	37	0.80 f/cc	1.4 f/cc	NO	Near #4 Mixer Manufacturing 8" 2400 pipe
016				12:30-1:35p	65	1.3 f/cc			
017				1:35-2:45p	70	1.8 f/cc			
015			Total Dust	10:00-12:30p	150				
018	Blender Area (12/6/79)	Area Sample	Fiber	3:25-5:00p	95	4.3 f/cc	4.4 f/cc	YES	Near #4 Mixer Manufacturing 6" 150 pipe
019				5:00-6:00p	60	5.0 f/cc			
020				5:00-6:30p	30	3.5 f/cc			
021	Trough Area (12-3-79)	Area Sample	Fiber	9:20-10:00a	40	>4.1 f/cc	9.5 f/cc	YES	6' From Floor Above Mix Trough Manufacturing 8" 2400 pipe
023				12:35-1:35p	60	>6.1 f/cc			
024				1:35-2:45p	70	9.7 f/cc			
022			Total Dust	10:00-12:35p	155				
025	Trough Area (12-6-79)	Area Sample	Fiber	3:25-5:00p	95	>2.8 f/cc	3.5 f/cc	YES	6' from Floor Above Mix Trough Manufacturing 6" 150 pipe
026				5:00-6:00p	60	>3.0 f/cc			
027				6:00-6:35 p	35	>6.3 f/cc			
028	Trough Area (12-7-79)	Area Sample	Fiber	11:45-1:15p	90	>5.6 f/cc	>5.6 f/cc	YES	3' From Floor on Rail at trough Manufacturing 6" 150 pipe
029	Machine Flow Trough (12-3-79)	Area Sample	Fiber	6:35-7:05a	30	0.97 f/cc	0.97 f/cc	NO	Taken at Start up Cylinders being installed Manufacturing 8" 2400 pipe
030	Machine Tender (12-3-79)	J. Low	Fiber	7:48-9:15a	87	2.6 f/cc	2.2 f/cc	YES	Manufacturing 8" 2400 pipe
031				9:15-10:52a	97	1.6 f/cc			
033				12:36-1:45p	69	2.6 f/cc			
032			Total Dust	10:52-12:36p	104				
034	Machine Control Panel (12-3-79)	Area Sample	Fiber	9:30-9:55a	25	2.1 f/cc	1.6 f/cc	NO	Manufacturing 8" 2400 pipe
036				12:35-1:50p	80	1.4 f/cc			
035			Total Dust	9:55-12:35p	160				

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AMERICAN			
5	11/78	N. hand Luthy (10)	0.28
2	2/78	Pencil shop 14	0.6
2	2/78	" "	0.4
2	2/78	" "	0.3
2	9/78	" "	1.87
1	2/78	E.T. Koorids Pull (10)	0.1
1	2/78	" " " 14	0.2
1	8/78	" " " 14	1.12
2	12/78	F.T. Saw 14	0.16
2	2/78	Scrap Count	0.74
2	11/78	" "	3.59
2	11/78	PLANT OFC	0.22
2	5/78	Swampy. Dptn.	0.25
2	12/28	Fin. Dept. Vn. K-14	0.19
2	11/78	Bag house MAINT	1.45
2	10/78	" "	1.16
2	10/78	" "	1.25
4	2/78	Lim. Hdq. P-2 (10)	0.4
1	2/78	" " " (10)	0.7
4	2/78	" " " (10)	0.1
4	2/78	" " " "	0.4
4	2/78	" " " "	0.2
4	12/78	" " " "	0.17
1	2/78	Fin. Pmt. h.	0.28
4	12/78	Finish Dept	0.17

C.I. I.H.		C.T. I.H.		C.T. I.H.		C.T. I.H.	
Amalgam	1359	Tractor	14	Amalgam Saw	10	Machine Tnd.	11
"	14	"	15	"	11	"	11
"	14	"	16	"	11	"	11
"	14	"	17	"	11	"	11
"	14	"	18	"	11	"	11
"	14	"	19	"	11	"	11
"	14	"	20	"	11	"	11
"	14	"	21	"	11	"	11
"	14	"	22	"	11	"	11
"	14	"	23	"	11	"	11
"	14	"	24	"	11	"	11
"	14	"	25	"	11	"	11
"	14	"	26	"	11	"	11
"	14	"	27	"	11	"	11
"	14	"	28	"	11	"	11
"	14	"	29	"	11	"	11
"	14	"	30	"	11	"	11
"	14	"	31	"	11	"	11
"	14	"	32	"	11	"	11
"	14	"	33	"	11	"	11
"	14	"	34	"	11	"	11
"	14	"	35	"	11	"	11
"	14	"	36	"	11	"	11
"	14	"	37	"	11	"	11
"	14	"	38	"	11	"	11
"	14	"	39	"	11	"	11
"	14	"	40	"	11	"	11
"	14	"	41	"	11	"	11
"	14	"	42	"	11	"	11
"	14	"	43	"	11	"	11
"	14	"	44	"	11	"	11
"	14	"	45	"	11	"	11
"	14	"	46	"	11	"	11
"	14	"	47	"	11	"	11
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"	14	"	54	"	11	"	11
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"	14	"	82	"	11	"	11
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"	14	"	84	"	11	"	11
"	14	"	85	"	11	"	11
"	14	"	86	"	11	"	11
"	14	"	87	"	11	"	11
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"	14	"	89	"	11	"	11
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"	14	"	94	"	11	"	11
"	14	"	95	"	11	"	11
"	14	"	96	"	11	"	11
"	14	"	97	"	11	"	11
"	14	"	98	"	11	"	11
"	14	"	99	"	11	"	11
"	14	"	100	"	11	"	11

[illegible]

Dust/Fiber Exposures

Location (Date)	Name/Area	Analysis for	Time	Min.	Result	TWA for Sample Period	Over Limit	Remarks
Roll Up Area (12-6-79)	Area Sample	Fiber	3:25-5:15p	110	VOID	x > 7.3 f/cc	YES	Heavy Particulate not countable. Manufacturing 6" 150 pipe
			5:15-6:35p	80	> 7.3 f/cc			
Press Operator (12-3-79)	C. Worthington	Fiber	7:08- 9:05p	117	> 1.6 f/cc	x 1.7 f/cc	NO	Manufacturing 8" 2400 pipe
			9:05-9:50p	45	1.9 f/cc			
			12:45-2:00p	75	VOID			Pump malfunction
		Total Dust	9:50-12:45p	175				
Press Operator (12-6-79)	C. Worthington	Fiber _x	3:25-6:45p	200	VOID	—	—	Heavy Particulate not countable
Mandrel Operator (12-3-79)	J. Bickley	Fiber	7:09-10:00a	171	0.65 f/cc	x 0.75 f/cc	NO	Manufacturing 8" 2400 pipe
			12:35-1:51p	76	0.96 f/cc			
		Total Dust	10:00-12:35p	155				
Tunnel 12/3/79 Entrance	Area Sample	Fiber _g	6:55-7:03a	8	4.3 f/cc	* 4.3 f/cc	YES	Clean up of scrap pipe
Pipe Stripper (12-6-79)	H. Meyers	Fiber _u	2:30-6:20p	230	1.5 f/cc	1.5 f/cc	NO	Manufacturing 15" 3000 pipe
Pipe Stripper (12-6-79) Area	Area Sample	Fiber _u	2:35-6:45p	250	0.59 f/cc	0.59 f/cc	NO	Pump hanging 5' above pipe on tunnel conveyor
Loader (12-6-79)	S. Mineo	Fiber	7:00-11:50a	290	0.54 f/cc	0.50 f/cc	NO	Manufacturing 15" 3000 pipe
			11:50-1:45p	115	0.41 f/cc			
Autoclave Truck Drive (12-6-79)	F. Demedio	Fiber	8:05-11:55a	230	0.15 f/cc	0.28 f/cc	NO	Manufacturing 15" 3000 pipe
			11:55-1:40p	105	0.57 f/cc			
Utility Truck Driver (12-3-79)	H. Schimmel	Fiber	6:40-7:03a	23	2.2 f/cc	0.62 f/cc	NO	Manufacturing 8" 2400 pipe
			7:03-9:20a	137	0.26 f/cc			
			9:20-12:40p	200	VOID			Sample Used Twice
			12:40-1:50p	70	0.79 f/cc			
Relief Operator (12-3-79)	R. Jackson	Fiber	7:40-9:10 a	90	0.66 f/cc	0.51 f/cc	NO	Manufacturing 8" 2400 pipe
			9:10-9:55a	45	0.20 f/cc			
			12:45-1:45p	57	VOID			Sample Used Twice
		Total Dust	9:55-12:48p	173				
Manufacturing Supervisor (12-6-79)	G. Jones NOTIFY	Fiber	2:15-5:23p	188	> 2.0 f/cc	x 2.7 f/cc	YES	Changing Mandrels
			5:23-7:00 p	97	2.3 f/cc			Changing Mandrels & Cleaning Mandrels
			7:00-7:30p	30	8.6 f/cc			Shot Blasting Mandrels
Crusher Operator (12-6-79)	C. Randall NOTIFY	Fiber	7:00- 9:25a	145	2.7 f/cc	x 3.1 f/cc	YES	Manufacturing 15" 3000 pipe
			9:25-10:01	152	> 3.5 f/cc			
			10:06-12:02	5	15.9 f/cc			In dust collector shaking Bags
			12:02-1:45p	103	2.6 f/cc			

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Dust/Fiber Exposures

No.	Position Location (Date)	Name/Area	Analysis for	Time	Min.	Result	TWA for Sample Period	Over Limit	Remarks
069	Crusher Operator (12-6-79)	R. Meyers	Fiber	2:30-5:20p	170	1.5 f/cc	1.5 f/cc	NO	Manufacturing 6" 150 pipe
070				5:20-6:15p	55	VOID			Pump Malfunction
071	Crusher Area (12-7-79)	Area Sample	Fiber	7:45-9:55a	130	0.32 f/cc	0.67 f/cc	NO	At Entry to Crusher Manufacturing 6" 150 pipe
072				9:55-11:15a	80	1.5 f/cc			
073				11:15-1:30p	135	0.52 f/cc			
074	Crusher Area (12-7-79)	Area Sample	Fiber	7:40-9:55a	130	5.5 f/cc	3.9 f/cc	YES	In Crusher Area Hanging On Rail Near Isle
075				9:55-11:55a	80	2.4 f/cc			
076				11:55-1:30p	135	3.3 f/cc			
077	Crusher Area (12-7-79)	Area Sample	Fiber	7:40-9:55a	130	0.58 f/cc	0.90 f/cc 0.86 f/cc	NO	In Crusher Area Hanging on Rail Near Wall.
078				9:55-11:15a	80	0.91 f/cc			
079				11:15-1:30p	135	1.1 f/cc			
080	Fork Truck Driver (12-4-79)	S. Steltz	Fiber	7:30-9:05a	95	0.17 f/cc	0.26 f/cc	NO	Finishing Line 3
081				9:05-11:00a	115	0.26 f/cc			12" Sewer Pipe
082				11:00-1:15p	135	0.24 f/cc			Finishing Line 2
083				1:15-1:45p	30	0.58 f/cc			
084	Lathe Operator (12-4-79)	A. DeClerico	Fiber	6:50-9:00a	130	0.43 f/cc	0.60 f/cc	NO	Finishing Line 3
085				9:00-10:57a	117	0.62 f/cc			12" Sewer Pipe
086				10:57-1:15p	138	0.79 f/cc			Finishing Line 2
087				1:15-1:45p	30	0.36 f/cc			
088	Lathe Operator (12-4-79)	G. Meyers	Fiber	6:55-9:00a	125	0.20 f/cc	0.30 f/cc	NO	Finishing Line 3
089				9:00-10:58a	118	0.33 f/cc			(Drive Side)
090				10:58-12:40p	102	0.38 f/cc			12" Sewer Pipe
091	Q. C. Inspector (12-4-79)	A. Mastromatto	Fiber	7:28-9:05a	97	0.52 f/cc	0.71 f/cc	NO	Finishing Line 3
092				9:05-11:00a	115	1.0 f/cc			12" Sewer Pipe
093				11:00-1:10p	130	0.76 f/cc			Finishing Line 2
094				1:10-1:45p	35	0.14 f/cc			
095	Tester Operator (12-4-79)	G. Bojaciuk	Fiber	7:23-9:01a	98	0.55 f/cc	0.67 f/cc	NO	Finishing Line 3
096				9:01-11:00	119	0.75 f/cc			(Drive Side)
097				11:00-1:15p	135	0.77 f/cc			12" Sewer Pipe
098				1:15-1:45p	30	0.31 f/cc			Finishing Line 2
099	Beller (12-4-79)	J. Handerhan	Fiber	7:40-9:05a	85	0.28 f/cc	0.55 f/cc	NO	Finishing Line 3
100				9:05-11:02a	117	0.32 f/cc			12" Sewer Pipe
101				11:02-1:12p	130	1.0 f/cc			Finishing Line 2
102				1:12-1:45p	133	0.31 f/cc			

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TABLE

	Position Location (Date)	Name/Area	Analysis for	Time	Min.	Result	TWA for Sample Period	Over Limit	Remarks
103	Beller (12-4-79)	S. Wallace	Fiber	7:02-9:07a	125	0.38 f/cc	0.67 f/cc	NO	Finishing Line 3 (drive side)
104				9:07-11:05a	118	0.45 f/cc			12" Sewer Pipe
105				11:05-12:45p	100	0.52 f/cc			
106				12:45-1:45p	60	1.99 f/cc			Finishing Line 2
107	Handler (12-4-79)	N. Paone	Fiber	7:10-9:07a	117	0.22 f/cc	0.37 f/cc	NO	Finishing Line 3
108				9:07-11:04p	117	0.28 f/cc			12" Sewer Pipe
109				11:04-12:45p	101	0.54 f/cc			
110				12:45-1:45p	60	0.58 f/cc			Finishing Line 2
111	Handler (12-4-79)	M. McCarthy	Fiber	7:05-9:11a	126	0.26 f/cc	0.40 f/cc	No	Finishing Line 3(drive Side)
112				9:11-11:02a	111	0.50 f/cc			12" Sewer Pipe
113				11:02-12:45p	103	0.39 f/cc			
114				12:45-1:45p	60	0.50 f/cc			Finishing Line 2
115	Mill Operator (12-5-79)	C. Handschin	Fiber	7:25-9:33a	128	0.26 f/cc	1.1 f/cc	NO	30" Coupling Mill FD 16
116				9:33-11:20a	107	0.55 f/cc			8" 3300
117				11:20-12:55p	95	2.2 f/cc			
118				12:55-1:45p	50	2.5 f/cc			
119	Mill Operator (12-5-79)	F. Marincole	Fiber	7:30-9:35a	125	0.59 f/cc	2.0 f/cc	NO	30" Coupling Mill - FD 15
121				9:35-11:20p	105	1.2 f/cc			8" 3300
122				11:20-12:55p	95	2.5 f/cc			
				12:55-1:45p	50	6.2 f/cc			
123	Mill Operator (12-5-79)	J. Zollo	Fiber	7:30-9:30a	120	0.25 f/cc	0.32 f/cc	NO	42" Coupling Mill - FD 54
124				9:30-11:20a	110	0.18 f/cc			16" Sewer Pipe
125				11:20-12:55p	95	0.42 f/cc			
126				12:55-1:45p	50	0.58 f/cc			
127	Saw Operator (12-5-79)	E. Cupid	Fiber	7:35-9:35a	120	0.29 f/cc	0.59 f/cc	NO	Dry Coupling Saw - FD 9
128				9:35-11:25a	110	0.52 f/cc			4" X 6" Couplings
129				11:25-12:55p	90	1.16 f/cc			
130				12:55-1:45p	50	0.44 f/cc			
131	Saw Operator (12-6-79)	A. Echadarrria	Fiber	7:10- ?	0	VOID	0.41 f/cc	NO	Employee Lost Cassett
132				9:50-11:55a	125	0.41 f/cc			Rework Saw FD 10
133				11:55-1:40p	105	0.40 f/cc			
134	Saw Helper (12-5-79)	D. Newman	Fiber	7:45-9:25a	100	0.43 f/cc	0.44 f/cc	NO	Rework Saw FD 10
135				9:25-11:25a	120	0.54 f/cc			8" 3300
136				11:25-1:45p	140	0.37 f/cc			

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Dust/Fiber Exposures

N.	Position Location (Date)	Name/Area	Analysis for	Time	Min.	Result	TWA for Sample Period	Over Limit	Remarks
137	Lathe Operator (12-5-79)	T. Gray	Fiber	7:47-9:30a	103	0.38 f/cc	0.37 f/cc	NO	Neigel Lathe FD 8 6" & 8" FMS
138				9:30-11:25a	115	0.51 f/cc			
139				11:25-1:00p	95	0.31 f/cc			
140				1:00-1:45p	45	0.11 f/cc			
141	Lathe Operator (12-5-79)	W. Barnett	Fiber	7:50-9:30a	100	0.38 f/cc	0.38 f/cc	NO	Laman Lathe FD 7 16" Pipe
142				9:30-12:55p	205	0.31 f/cc			
143				12:55-1:45p	50	0.70 f/cc			
144	Mill Operator (12-5-79)	J. DeSilva	Fiber	7:55-9:32a	97	0.13 f/cc	0.28 f/cc	NO	Universal Boring Mill FD 7 6" Pipe
145				9:32-11:25a	113	0.22 f/cc			
146				11:25-1:00p	95	0.48 f/cc			
147				1:00-1:45p	45	0.35 f/cc			
148	Drill Operator (12-6-79)	J. Diaz	Fiber	7:10-9:50a	160	0.66 f/cc	0.46 f/cc	NO	Korit Drill
149				9:50-11:55a	125	0.34 f/cc			
150				11:55-1:40p	105	0.29 f/cc			
151	Saw Operator (12-5-79)	N. Chancy	Fiber	8:45-11:25a	160	1.88 f/cc	1.66 f/cc	NO	Wet Saw 16" 150
152				11:25-1:00p	95	1.69 f/cc			
153				1:00-1:45p	45	0.84 f/cc			
154	Lathe Operator (12-6-79)	E. Moore	Fiber	7:40-9:52a	132	1.2 f/cc	1.1 f/cc	NO	Pencil Sharpener
155				9:52-11:55a	123	1.1 f/cc			
156				11:55-1:40p	105	1.0 f/cc			
157	Finishing Supervisor (12-5-79)	R. Grudzinski	Fiber	8:15-2:00p	405	0.12 f/cc	0.12 f/cc	NO	
158	Sweeper Operator (12-6-79)	H. Dukes	Fiber	10:10-12:45p	145	0.23 f/cc	0.29 f/cc	NO	
159				12:45-3:00p	135	0.35 f/cc			
160	Electrician (12-3-79)	C. Beaver	Fiber	7:15-9:10a	115	0.84 f/cc	0.40 f/cc	NO	
161				9:10-1:45p	275	0.22 f/cc			
162	Mechanic (12-6-79)	J. DeMario	Fiber	7:40-12:40p	300	0.41 f/cc	0.39 f/cc	NO	Working on Finishing Line #2
163				12:40-3:00p	140	0.36 f/cc			