FILE NAME: John Crane (JC)

DATE: 1976-1985

DOC#: JC011

DOCUMENT DESCRIPTION: Asbestos Monitoring Program Station Analysis Records

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 12

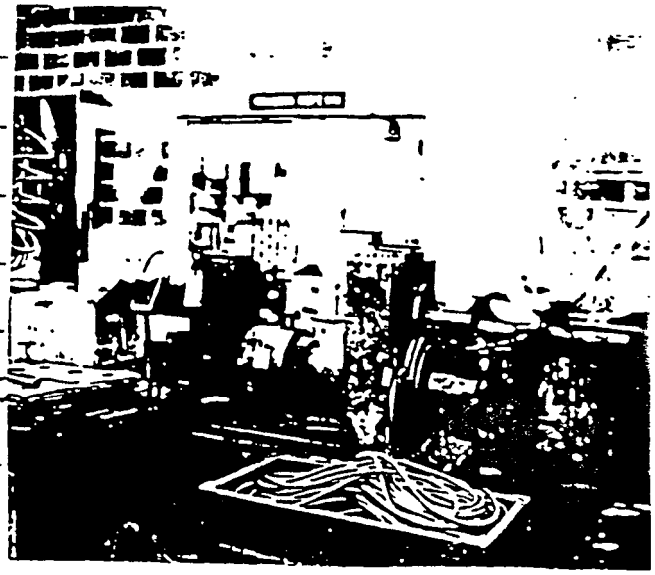
Machine No. 1679

Dept. 941 910

Division Packing

Area Code (A) B C

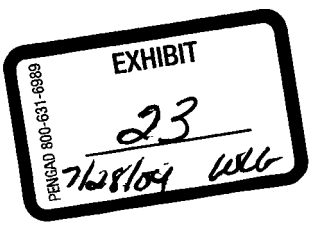
Description of Location N.W. of main aisle East of White room



Description of Operation Spooling 187 IA asbestos packing size: 1/4" and 1/2". Graphite/Buna coated 1031 AAA asbestos

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
9/30/76	1.19	0.3283	Bernard Randle
2/27/78	0.5415	0.1851	Bernard Randle
11/21/78	0.1781	0.0553	Bernard Randle

Comments:



Form No. 23257

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 25

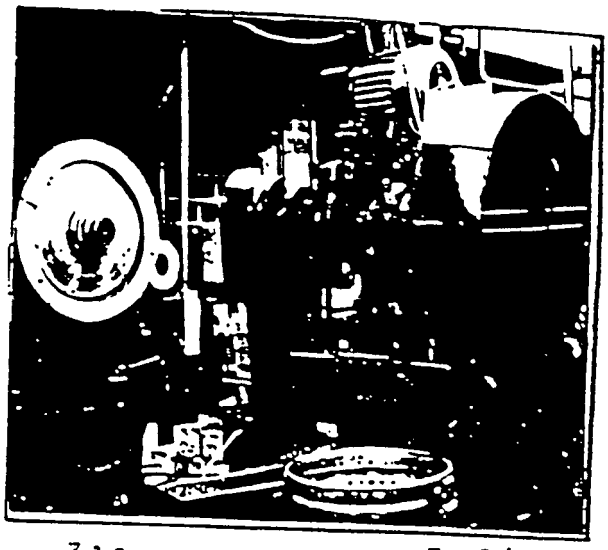
Machine No. 3280 - 83

Dept. ~~9V3~~ 920

Division PACKING

Area Code A (B) C

Description of Location N. OF TRUCK DOCK, WEST OF MIX - DIP ROOM



3280 3281

Description of Operation PUNCH PRESS MOLDS ASBESTOS PARTS

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
6/23/76	0.475	0.228	Jose Torrez
4/4/78	1.0688	0.2198	Tomas Reyes
2/28/79	.2375	0.1128	J.A. Torres
8/27/80	0.0	0.0269	Jose. A. Torres
8-21-81	0	0.0500	Jose A Torres
12-29-81	0.0	0.0611	Jose A Torres
6/2/82	.0	0.0100	Jose Torress
9/29/83	0.4750	0.0778	Sergio Guzman
3/27/85	0	.0151	Jose Torres

Comments:

Form No. 23257

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD (see reverse side)

Station No. 28

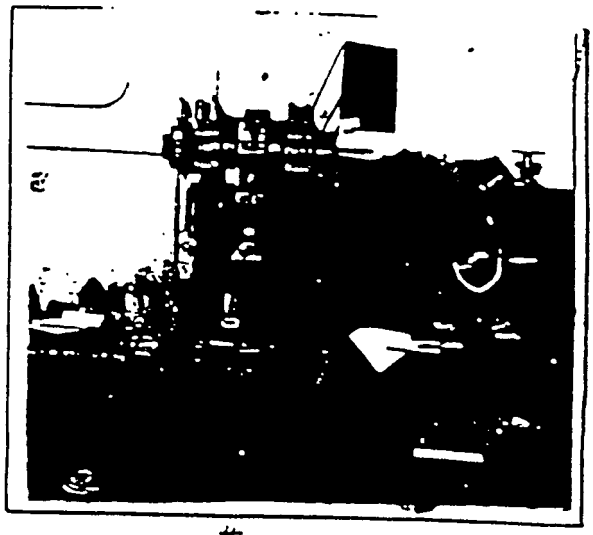
Machine No. 1590 1555, 1672, 038

Dept. ~~945~~ 940

Division PACKING

Area Code A (B) C

Description of Location NEXT TO EMPLOY. ENTRANCE (CLEAN ROOM)



#1590

Description of Operation MOLDING # C06 & C-1050 TFE COATED ASB. RINGS OPER. INCLUDES SAWING/COILING ASB. RINGS PRIOR TO MOLDING

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
1/26/76	1.19	0.2997	A. MARTINEZ
9/22/77	0.5344	0.0623	J. GACARZA
9/28/78	0.1781	0.0402	G. H. ALFORD
3/26/82	.0	.0095	Raul Anton Rivera
6-30-92	0	.0466	TOMAS REYES
10/28/83	0	0	Raul Anton Rivera.
1/27/84	0	.0090	Tomas Reyes -
5/8/84	0	.0045	Orlando Martinez
6/15/85	.2375	.~~0334~~ .0334	Raul Anton Riveria
5/22/85	0	0.0105	George Rojas
9/30/85	0	0	Raul Anton Riveria

Comments:

Form No. 23257

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 43

Machine No. 1610

Dept. 945

Division Packing

Area Code A (B) C

Description of Location Along South wall of Packing Bldg. 60 ft west of East Wall.



Description of Operation Molding 100 M on punch press machine No. 1610 - also molding 100 AL on punch press No. 1610 for 5 hrs.

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
8-13-76	.475 Fibers/cc	.120 Fibers/cc	Samir Elsohli
6-25-81	0.475	0.1505	George Rohas
8-25-83	0	0	Guiller Rodriguez.

Comments:

Form No. 23257

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 50

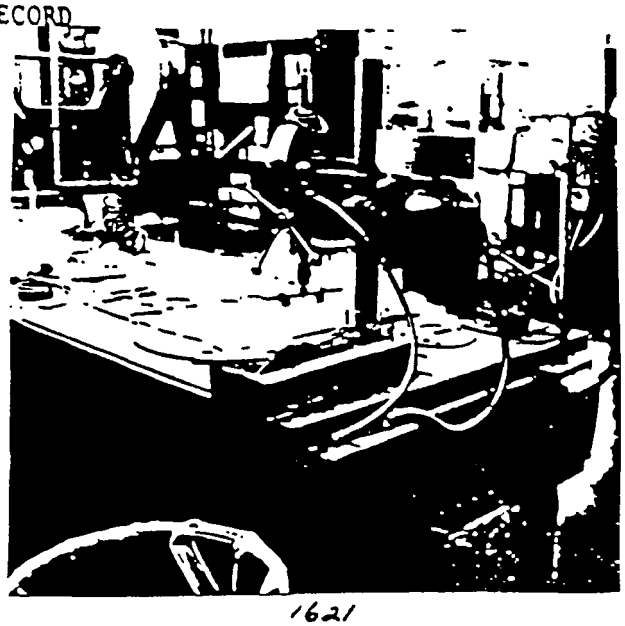
Machine No. 1652- 1628- 1623

Dept. ~~945~~ 940

Division Packing

Area Code A (B) C

Description of Location S. central of bldg.
Just east of main aisle



1621

Description of Operation Production of gaskets from sheet packing by use of dies and circle cutter.

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
7/11/78	0.3617	0.1428	M. GUIRAGOSSIAN
6/28/79	0.0	0.0405	M. Guiragossian
3/26/82	.2375	.0672	M. Guiragossian
6-30-82	0	0.0092	GEORGE ROJAS

Comments:

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 63

Machine No. None (table)

Dept. 910

Division Packing

Area Code (A) B C

Description of Location S.E Corner of the White room.



Description of Operation Table hand coiling.

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
5/24/79	.7125	.2017	ESTEBAN RODRIGUEZ
7/23/84	0	.0223	Sergio Guzman
9/30/85	0	.0192	Martin Sepulveda

Comments:

Form No. 23257

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 53

Machine No. ASSEMBLY OF MACHINES

Dept. ~~957 990~~ 931

Division PACKING

Area Code A B (C)

Description of Location LEFT OF ENCLOSED AREA: North side of the partitioned office area



Description of Operation INSPECTION, HANDLING - BOXING

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
12/9/77	.3109	.0767	LUCY CACERES
1/27/84	.475	.098	Donna S. Angel
2/15/84	0	.0178	Maria Lao Mendez
2/15/84	.2375	.0384	Wanda Tirado
3/29/84	.0	.0520	Ljobic Djordjevic
3/23/84	0	.0080	Alice B. Guisinde
4/26/84	0.4750	.0415	James J. Milligen
4/26/84	0	.0747	Ivette Rosado
6/15/84	0	.0269	Agnes E. Sasse
6/15/84	0.4750	.0778	Jimmy Dean
7/23/84	[illegible]	[illegible]	[illegible]

Comments:

Form No. 23257

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 29

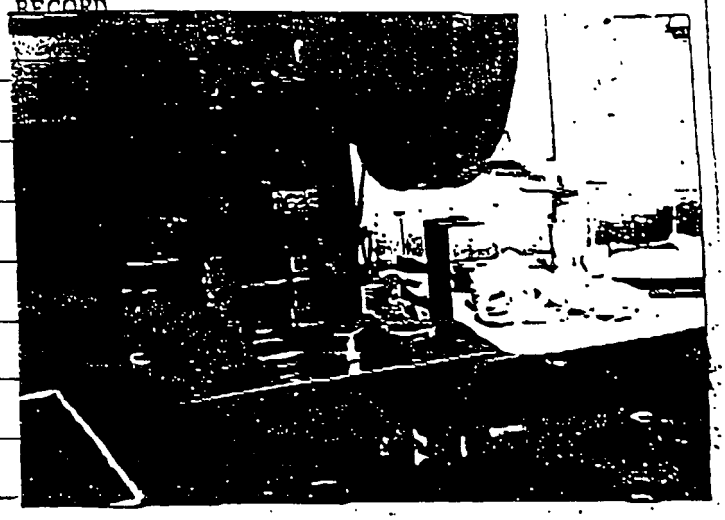
Machine No. 1622, 1652, ~~2038~~

Dept. 945 940

Division Packing

Area Code A (B) C

Description of Location Next to Employees Entrance (Clean Room)



Description of Operation Molding # C-06-SP, 5810 SP and C1850 TFE coated asbestos rings - operation includes sawing/coiling

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
7/26/76	0	0.2711	Juan Sanchez
9/22/77	0.5344	0.1061	George Alford
12/14/78	0.1781	0.0486	Youman Jones

Comments:

Form No. 23257

05

CRANE PACKING COMPANY
ASBESTOS MONITORING PROGRAM
STATION ANALYSIS RECORD

Station No. 35

Machine No. 1596 + ~~2~~ 2077

Dept. 945

Division Packing

Area Code A (B) C

Description of Location 35 ft from south wall, 20ft east of main aisle, 40°F cloudy, slight wind, doors closed



Description of Operation Punch Press Machine No: 1596 + 2077 Fabricating 1875 Packing Ring - 7/8" X 1 5/8" X 1" + 805D Packing ring 3/8" X 1/8" X 3/32"

Date	15 Min. Threshold	8 Hr. Time Weighted Avg.	Operator's Name
10-21-76	.713	.1065 Fibers/cc	Kachadur Babbilarian
12-29-81	0.00	0.0570	JOSE GALARZA
11-3-83	0	0.0266	Jose V. Rodriguez
4/26/84	0	.0023	Pablo Moscoso
9/26/84	0	.0097	Fernando Villatoro

Comments?

Form No. 23257

CONFIDENTIAL

CRANE PACKING COMPANY
ASBESTOS FIBER MONITORING PROGRAM

DATE: August 13 1976

PLANT Crane Packing - Morton Grove

DIVISION Packing

DEPT. 345

STATION NO. 44 Mach No. 2019

OPERATOR'S NAME Roger Cotton

AREA CODE A (B) C

SAMPLE NO.	A¹	A²	A³	A⁴
PUMP NO.	2	2	2	2
FLOW RATE	2 l/m	2 l/m	2 l/m	2 l/m
STOP TIME	8 50	9 10	11 10	2 50
START TIME	7 45	8 00	9 10	12 15
SAMPLE TIME	15	70	120	155

DESCRIPTION OF LOCATION Abv. South Wall of Packing Bldg. ~ 50 ft west of East Wall

PERSONAL PROTECTION USED none

FILTRATION CONTROL YES _____ NO X

WATER CONTROL YES _____ NO X

FILTRATION	None	Slight	Moderate	Excessive
SIDE DRAFTS		X		
AIRBORNE DUST		X		
SETTLED DUST ON:				
MACHINE SURFACE		X		
OVERHEAD SURFACE		X		
FLOOR		X		
CLOTHING		X		
TRAFFIC		X		

Work Cycle Duration 6 35 - 3 30

Total Operating Time 8 1/4

Comments:

- compressing 187 I packing rings on a punch press, machine number 2019
- 80°F

Sample Date	ATF/Field	AF >5 µm/Field	Filter Area	Field Area	TAV	Airborne Fiber Conc. >5 µm/cm³
8/13/76	~~.185~~	.125	855 mm²	360 · .003	720 l	.198

AF = Avg. total fibers TAV = Total air vol.

Form No. 23256

5273

$$c = \frac{(F-B)\ (w)}{(A)\ \ (V)}$$

c = Airborne filter conc. >5 µm/cm
F = Avg. fiber count >5 µm/field
B = Avg. fiber count of blank
w = Filter area
A = Area of field
V = Total air volume

BLANK = 0/40 = 0

	A_1		A_2		A_3		A_4	
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	1	1	0	0	0	1
11	0	0	0	0	0	0	1	3
12	0	0	0	0	0	0	0	0
13	0	0	1	1	0	0	3	3
14	0	0	0	0	0	0	0	0
15	0	0	0	0	1	1	0	0
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	1	1
24	0	0	0	0	0	0	1	1
25	0	0	0	0	0	0	0	0
	0/40		9/40		1/40		10/40	

A_1 = 0

A_2 $\frac{(9/40)(855)}{(.003)(2000)(76)}$ = .458

A_3 $\frac{(1/40)(855)}{(.003)(2000)(120)}$ = .0297

A_4 $\frac{(10/40)(855)}{(.003)(2000)(155)}$ = .230

Av. fibers/cc

A_1 0 × 15 = 0

A_2 .458 × 70 = 32.06

A_3 .0297 × 120 = 3.564

A_4 .230 × 155 = 35.65

Total 71.274/360

Av. .198/cc > 5M

Analyzed by E Wisniewski

ONFIDENTIAL

: CRANE PACKING COMPANY
ASBESTOS FIBER MONITORING PROGRAM

DATE: 12-20-79

LANT Morton Grove
IVISION PACKING DIV.
EPT. 910 # 5874
TATION NO. 49 (near by - no station)
PERATOR'S NAME Gordon Abner
REA CODE A (B) C

SAMPLE NO.	A-1	A-2	A-3	A-4
PUMP NO.	1	1	1	1
FLOW RATE	2.00	2.00	2.00	2.00
STOP TIME	17:02	20:51	23:34	23:49
START TIME	16:02	17:02	21:35	23:34
SAMPLE TIME	60	229	119	15

ESCRIPTION OF LOCATION South East Corner of Packing building
ERSONAL PROTECTION USED None.
ILTRATION CONTROL YES _____ NO X
ATER CONTROL YES _____ NO X

ILTRATION	None	Slight	Moderate	Excessive
IDE DRAFTS		X		
IRBORNE DUST		X		
ETTLED DUST ON:				
ACHINE SURFACE			X	
VERHEAD SURFACE		X		
LOOR		X		
LOTHING			X	
RAFFIC			X	

Work Cycle Duration 15 min (night shift)
Total Operating Time 8:0
Comments:
Superseal hand Cutting. regularly he is a braiding machine ope but today he is at Dept #940.

ample ate	ATF/Field	AF >5 µm/Field	Filter Area	Field Area	TAV	Airborne Fiber Conc >5 µm/cm³
12/20/79		.0750	855 mm	.003	846	.1011

CF = Avg. total fibers
TAV = Total air vol.

Form No. 23256

5043

$$c = \frac{(F-B)\ (w)}{(A)\ (V)}$$

c = Airborne fiber conc. ~~>5~~ μm/cm
F = Avg. fiber count >5 μm/field
B = Avg. fiber count of blank
w = Filter area
A = Area of field
V = Total air volume

	A-1		A-2		A-3		A-4	
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	1	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	1	0	0	1	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	1	0	0
14	0	0	0	1	0	0	0	0
15	0	0	0	1	0	0	0	0
16	0		0		0		0	
17	0		1		1		0	
18	0		0		0		0	
19	0		1		0		0	
20	0		0		0		0	
21	0		0		1		0	
22	0		0		0		0	
23	0		1		0		0	
24	0		1		0		0	
25	0		0		0		0	
	0/40		7/40		5/40		0/40	

$A1 = 0$

$$A2 = \frac{(7/40)(855)}{(.003)(2000)(229)} = 0.1089$$

$$A3 = \frac{(5/40)(855)}{(.003)(2500)(119)} = 0.1497$$

$A4 = 0$

$A2 = 0.1089 \times 229 = 24.9381$

$A3 = 0.1497 \times 119 = 17.8125$

$T = 42.7506$

$$AF = \frac{12}{160} = 0.0750$$

$TAV = 423 \times 2 = 846$

$$C = \frac{42.7506}{423} = 0.1011$$

J. Y. LEE
FEB 06 1980

Analyzed by CHEM LAB

5044
65 229 119 15 (423)

CONFIDENTIAL

CRANE PACKING COMPANY
ASBESTOS FIBER MONITORING PROGRAM

DATE: 10-21-76

PLANT Morton Grove

DIVISION Packing

DEPT. 945

STATION NO. 31 to 37 (Group leader) 1611 1622 Mach. No 2077-1596

OPERATOR'S NAME Buford D. Mullins

AREA CODE A (B) C

SAMPLE NO.	A-1	A-2	A-3	A-4
PUMP NO.	1	1	1	1
FLOW RATE	1.99	1.99	1.99	1.99
STOP TIME	7:35	8:45	11:15	2:30
START TIME	7:20	7:35	8:45	12:15
SAMPLE TIME	15	70	150	135

DESCRIPTION OF LOCATION 35 ft from South Wall, 25 ft East of main Aisle, Cloudy, 40°F, Doors

PERSONAL PROTECTION USED None

FILTRATION CONTROL YES ____ NO X

WATER CONTROL YES ____ NO X

FILTRATION	None	Slight	Moderate	Excessive
SIDE DRAFTS		X		
AIRBORNE DUST		X		
SETTLED DUST ON:				
MACHINE SURFACE		X		
OVERHEAD SURFACE		X		
FLOOR		X		
CLOTHING		X		
TRAFFIC		X		

Work Cycle Duration 545

Total Operating Time 9

Comments:
Supervision, operation + r
Mach. No 1611, 1622, 207
+ 1596 - above mach
making 187I Pac
Rings

Sample Date	ATF/Field	AF >5 µm/Field	Filter Area	Field Area	TAV	Airborne Fiber Conc >5 µm/cm³
10-21-76		.0750	855 mm	390 min .003	7360	0.1168

ATF = Avg. total fibers TAV = Total air vol.

Form No. 23256

$$c = \frac{(F-B)\ (w)}{(A)\ (V)}$$

c = Airborne filter conc. >5 μm/cm^3
F = Avg. fiber count >5 μm/field
B = Avg. fiber count of blank
w = Filter area
A = Area of field
V = Total air volume

	A'		A^2		A^3		A^4	
1	1	0	0	0	0	2	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	1	0	0	0
7	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	1	1	0	0	0	0	1	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
16	0		0		0		0	
17	0		0		0		0	
18	1		0		0		0	
19	0		0		0		0	
20	0		0		0		0	
21	0		0		0		0	
22	0		0		0		0	
23	0		0		0		1	
24	0		0		0		0	
25	1		0		0		0	
	5/40		9/40		3/40		4/40	

A4 - loaded with graphite particles
and 300-500/HPF

A1 $\frac{(5/40)\ 855}{(.003)(2000)(15)} = 1.19$

A2 $\frac{(0/40)\ 855}{(.003)(2000)(70)} = 0$

A3 $\frac{(3/40)\ 855}{(.003)(2000)(150)} = .07$

A4 $\frac{(4/40)\ 855}{(.003)(2000)(135)} = .11$

Av. Fiber/cm^3

A1 1.19 x 15 = 17.85

A2 0 x 70 = 0

A3 .07 x 150 = 10.50

A4 .11 x 135 = 14.85

43.20
370

Total Av. .1168 Fibers/cm^3

Analyzed by _____

5836

FIDENTIAL

CRANE PACKING COMPANY
ASBESTOS FIBER MONITORING PROGRAM

DATE: 10-21-76

ANT Morton Grove

VISION Packing

PT. 945

ATION NO. 35 Mach. No. 1596 + 2077

ERATOR'S NAME Khachadur Bababilayian

EA CODE A (B) C

SAMPLE NO.	B-1	B-2	B-3	B-4
PUMP NO.	2	2	2	2
FLOW RATE	1.99	1.99	1.99	1.99
STOP TIME	7:40	8:46	11:18	2:35
START TIME	7:25	7:40	8:46	12:20
SAMPLE TIME	15	66	152	135

SCRIPTION OF LOCATION 35ft. from South Wall, 20ft East of Main Aisle, slight wind, cloudy, 40°F, Dry

RSONAL PROTECTION USED None

LTRATION CONTROL YES ____ NO X

TER CONTROL YES ____ NO X

LTRATION	None	Slight	Moderate	Excessive
DE DRAFTS		X		
RBORNE DUST		X		
TLED DUST ON:		X		
CHINE SURFACE		X		
RHEAD SURFACE		X		
OOR		X		
THING		X		
FFIC		X		

Work Cycle Duration 5:45 -

Total Operating Time 9

Comments:
Punch Press Machine N
1596 + 2077 187" I
Packing Rings 7/8 x 1
x 10" + 805D Packin
Rings 3/8 X 1/8" X 5/32"

ple e	ATF/Field	AF >5 µm/Field	Filter Area	Field Area	TAV	Airborne Fiber Conc. >5 µm/cm³
21/76		.0688	855 mm	369min .003	732 l	.1065

= Avg. total fibers

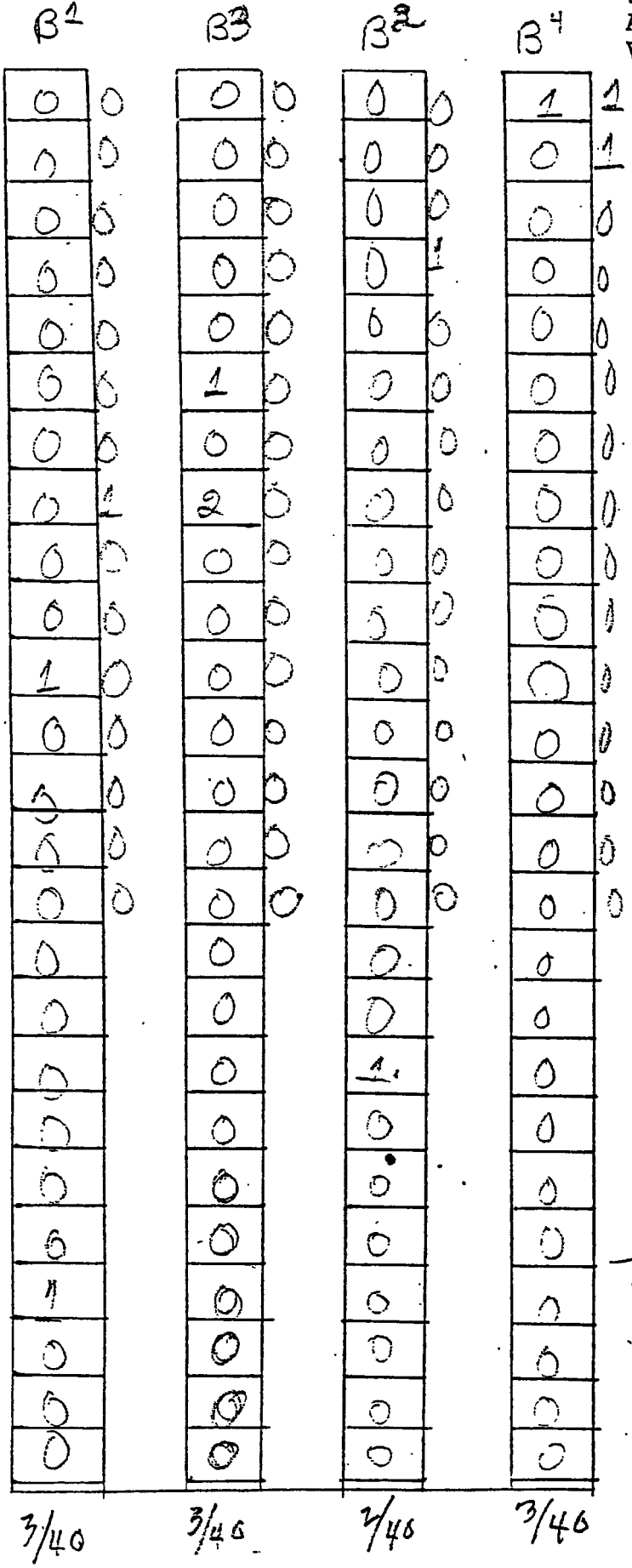
TAV = Total air vol.

rm No. 23256

5141

$$c = \frac{(F-B)\ (w)}{(A)\ \ (V)}$$

F = Avg. fiber count >5 µm/field
B = Avg. fiber count of blank
w = Filter area
A = Area of field
V = Total air volume



BLANK 9/40

$B_1 \frac{(3/40)\ (855)}{(.003)\ (2000)\ (15)} = .713$

$B_2 \frac{(3/40)\ (855)}{(.003)\ (2000)\ (66)} = .162$

$B_3 \frac{(3/40)\ (855)}{(.003)\ (2000)\ (152)} = .047$

$B_4 \frac{(3/40)\ (855)}{(.003)\ (2000)\ (135)} = .079$

Av. Fiber/cm³

B1 .713 x 15 = 10.70

B2 .162 x 66 = 10.69

B3 .047 x 152 = 7.14

B4 .079 x 135 = 10.67

39.20

368

Total Av. .1065 fiber/cc

Analyzed by _____

5142