

P712-340
JF
4/19/79

Ret to Smith

RAYBESTOS - MANHATTAN, INC.BRIDGEPORT AND STAFFORD PLANTS

This survey was made on the 24th, 25th, and 26th of March, 1936.

BRIDGEPORT PLANT

It is evident from the dust counts of this survey that the dust conditions of the weave rooms have been improved. The change from the dry binder to wet binder is the reason for this improvement. This survey was made under winter conditions with most of the windows closed.

Comparing the survey of 1935 and that of 1936 other facts are noticed. At the time of the 1935 survey, seven looms were running on the third floor as compared with four at the time of the 1936 survey. There were fewer looms running on the second floor at the time of the 1936 survey than were running during the 1935 survey.

The dust concentrations at the warp machines may vary to a considerable extent depending upon the moisture content of the yarn, the speed at which the machines are operating, and the amount of natural ventilation; however, the operators have been supplied with approved respirators for protection against the dust generated.

The condition of the Brake Department has been improved by the removal of the drill presses.

The exhaust hood of the Pratt and Whitney Grinder has also been improved.

Table #1 shows results of 1936 survey

Table #2 - shows comparative results of identical locations or operations of survey of 1935 and survey of 1936.

Exhibit E.

BRIDGEPORT PLANT - TABLE #1

SAMPLE NO.	STATION	DATE	QU. FT.	MILLIONS OF PARTICLES PER CU. FT. OF AIR SAMPLED	TYPE OF DUST	LEAD RESULTS MG/CU.FT.	MG/CU.M	MM/10 HR. DAY	REMARKS
1.	2ND FLOOR - BETWEEN LOOMS #225 & 227	3/24/36	40.0	.90	ASBESTOS				OLD LOOKS #30 & 31
2.	2ND FLOOR - BETWEEN LOOMS #234 & 236	"	39.2	1.2	LEAD	000	000	000	OLD LOOKS #29 & 37
3.	2ND FLOOR - AT LOOM #9	"	37.5	.85	ASBESTOS				OLD LOOK #25
4.	" " - AT LOOM #20	"	47.1	1.1	"				OLD LOOKS #62 & 63
5.	" " - BETWEEN LOOMS #238 & 240	"	34.5	1.4	"				EXHAUST SYSTEM - DAMP STOCK "
7.	2ND FLOOR - AT INSPECTION TABLE	"	42.2	3.6	"				100% - ONE YARN NOSE - POSITION - 10% - HOLE
8.	" " - AT LOOM #45	"	42.3	1.6	"				CORRESPONDING TO #2 IN PARALLEL SURVEY
6.	1ST FLOOR - BETWEEN LOOMS #88 AND #93	"	45.6	1.2	"				WINDINGS CLOSED - RESPIRATORS SUPPLIED TO MEN AND LADS
9.	1ST FLOOR - WARP ROOM BETWEEN COP. BINDERS	"	50.9	1.3	"				TAKEN NEAR PRESSER DRILL PRESSSES MOVED TO STRUTTERS
11.	1ST FLOOR - " " " #3 WARP MACHINE - RUN AT FAST SPEED. 10:20 - 1 COTTON	"	27.1	5.8	"				
15.	1ST FLOOR - WARP ROOM - WARP MACHINE #6 - 1033 HULE	3/25/36	28.8	17.1	"				
10.	1ST FLOOR - BRIDGE DEPARTMENT GENERAL AID	3/24/36	42.2	.90	WARP Lining CLUTCH FACING	.000425	.015	0.15	

BRIDGEPORT PLANT - TABLE #1 (CONTINUED)

SAMPLE NO.	STATION	DATE	CU. FT.	MILLIONS OF PARTICLES PER CU. FT. OF AIR SAMPLED	TYPE OF DUST	LEAD RESULTS		REMARKS
						MG/CU.FT.	MG/CU.M	
12.	1ST FLOOR-PAVE DEPARTMENT AT PRATT & WHITNEY GRINDER GRACE LINING	3/24/36	32.9	2.3	14			EXHAUST HOOD IM- PROVED SINCE PREVIOUS SURVEY
13.	3RD FLOOR - BETWEEN LOOMS B319 & B321	3/25/36	47.9	4.6	27			OLD LOOM'S 365 2469
14.	GENERAL AIR NEAR LOOM B309	"	45.2	3.3	20			4 LOOMS RUNNING ON 3RD FLOOR

BRIDGEPORT PLANT - TABLE #2

<u>Survey of March, 1936</u>	<u>Dust Count in Millions of Particles per cu. ft. of air sampled</u>	<u>Survey of June, 1935</u>	<u>Dust Count in Millions of Particles per cu. ft. of air sampled</u>	<u>Remarks</u>
<u>Sample Number</u>		<u>Sample Number</u>		
<u>2nd Floor</u>				
3	.85	12	9.9	Loom #10 removed since 1935 survey.
1	.90	7	3.6	
2	1.2	34	4.5	
4	1.1	11	3.5	
7	3.6	15	9.6	
<u>3rd Floor</u>				
13	4.6	4	6.1	Loom #68 not running 1935 survey
14	3.3	8	5.4	
<u>1st Floor</u>				
6	1.2	16	2.5	
11	5.8	19	3.3	
9	1.3	25	2.6	
<u>Brake Department</u>				
10	.90	18	1.3	
12	2.3	29	2.2	

<u>Old No.</u>	<u>New No.</u>	<u>No. Spaces</u>	<u>Size</u>	<u>Type</u>	<u>Type of Yarn</u>
2(30)	-	16	2 x 5/32	B 50 E	Wet Binder & Filling- (1032 Mule & Jute
(31)	225	16	2 x 5/32	B 50 E	" " " "
(29)	-	12	2 x 196	154 W04	Stuffed Binder & Filling (1030 - 1 Cotton
(37)	234	12	2 x 196	154 W04	" " " " (1032 - 1 C.C.
9	-	3	13/4 x 1/4	BPT.	" " " " (1033 - Mule
	236	4	2 1/2 x 1/4	BPT.	Wet Binder & Filling (1032 - Mule
	-				" " " " (1030 - 1 Cot.
	-				" " " " (1033 - 1 Cot.
25	-	3	1 7/8 x 1/8	Z-120	Stuffed Binder & Wet Filling (1033 - Mule
	220	3	1 7/8 x 133	Z-120	" " " " (1030 - 1 Cot.
	-	3	1 11/16 x 133	Z-120	" " " " (1032 - L C Z
	-	3	1 13/16 x 133	Z-120	" " " " (1032 - Z
(62)	-	12	2 x 3/16	Rayb.	Wet Binder & Filling (1032 - Mule
(63)	238	12	2 x 3/16	Rayb.	" " " " (1030 - 1 Cot.
82	-	1	2 1/2 x 5/16	F.W.	Wet Binder & Filling (1030 - 1 Cot.
	-	1	3 x 5/16	F.W.	" " " " (1033 - 1 Cot.
	-	2	5 x 5/16	F.W.	" " " " (1030 - 2 Cot.
	-				" " " " (1032 - 1 Cot. Zinc
83	-	1	9 1/4 x 1	No Wire	(1030 - 2 Cot.
	-	1	9 3/4 x 1	No Wire	(1090 - Rope
45	-	2	3 x 1/4	Bpt.	Wet Binder & Filling (1033 - Mule
	-	1	3 1/2 x 1/4	Bpt.	" " " " (1033 - 1 Cot.
	-	3	4 x 1/4	Bpt.	" " " " "
69	-	20	1 1/2 x 1/8	R.S.	Wet Binder & Filling (1032 - Mule
68	319	20	1 1/2 x 1/8	R.S.	" " " " "
	321				" " " " "

* Sample #1, taken in the fibre room of #6 Department, is high.

The shaker screen should be enclosed; however, there is only one employee

working in this room, and he is supplied with a respirator which is adequate protection provided that it is maintained properly and used.

Table #3 shows results of 1936 survey.

Table #4 shows comparative results of identical locations or operations of survey of 1935 and survey of 1936.

STRATFORD PLANT - TABLE # 4

Survey of March, 1936	Dust Count in Millions of Particles per cu. ft. of air sampled	Survey of June, 1935	Dust Count in Millions of Particles per cu. ft. of air sampled	Remarks
<u>Sample Number</u>		<u>Sample Number</u>		
2	.94	2	2.3	
3	.73	4	2.6	
6	2.8			
14	3.2	12	4.4	
4	4.5	13	1.4	
7	1.4	18	6.5	
8	3.5	22	2.6	
9	2.7	20	1.4	
11	3.0	14	1.8	
12	1.9	27	4.1	
15	4.7	30	12.8	
16	2.0	24	1.9	
17	1.6	32	2.3	
18	.94	28	1.8	
23	1.3	26	12.0	
19	1.4	16	1.4	

STRATFORD PLANT - TABLE #3

SAMPLE NO.	STATION	DATE	CU. FT.	MILLIONS OF PARTICLES PER CU. FT. OF AIR SAMPLED	TYPE OF DUST	LEAD RESULTS UG/CU. FT. UG/CU. M.	UG/10 HR. DAY	REMARKS
1.	FIBRE ROOM - SHAKER SCREEN AND CRACKER RUNNING	3/25/36	32.6	19.0	ASBESTOS			FIBRE FALLING INTO HALL TRUCKS
2.	BETWEEN MIXERS #11, 12, 14, & 15	"	40.2	.94	ASBESTOS LEAD	.000348	.0123	
3.	BETWEEN MIXERS #4, 5, 17, & 18	"	52.6	.73	"	.000	.000	
5.	WEIGHING LITNAPPE FROM DRUM TO PAN ON SCALE & DUMPING INTO WAGON #19	"	7.5	6.4	LEAD	.00127	.066	
4.	FILLING BEATER #2	"	76.0	4.5	ASBESTOS			
6.	AT PRESS #15 - CUTTING RINGS ON CUTTING PRESS #3	"	32.6	2.8	"			BOILER PIPES AND STACKS PIECES ON TC SKID
7.	AT BLACKHARD GRINDER #1 CLUTCH FACING RINGS	"	30.0	1.4	CLUTCH FACING	.000	.000	EXHAUST
8.	AT AUTOMOBILE DRILL PRESS #10	"	28.8	3.5	"	.00243	.852	"
9.	AT CINCINNATI GRINDER #20 CORE RINGS	3/26/36	58.6	2.7	"	.000	.000	" RESPIRATOR
10.	TESTING RINGS FOR BRINELL HARDNESS	"	28.1	1.6	"	.000	.000	ONE VAPOR EXTRACTOR
11.	GENERAL AIR - BETWEEN TWO COLLARERS	"	3 1.6	3.0	ASBESTOS			
12.	AT INTERNAL GRINDER #4 MACHINE #66	"	40.6	1.9	CLUTCH FACING	.000345	.0122	EXHAUST, RESPIRATOR
13.	AT STEADFAST-ROULSTON GRINDER MACHINE #64	"	55.4	1.2	BRASS LINING	.000	.000	GRINDING LINING TO WIDEN EXHAUST

STRATFORD PLANT - TABLE 23 (CONTINUED)

SAMPLE NO.	STATION	DATE	CU. FT.	MILLIONS OF PARTICLES PER CU. FT. OF AIR SAMPLE	TYPE OF DUST	LEAD RESULTS MG/CU.FT.	MG/CU.M	MG/10 NR. DAY	REMARKS
14.	SAVE AS TO DUT TAKEN AT PRESS #17	3/25/36	34.0	3.2	✓	ASBESTOS			
15.	BETWEEN PLENGHARD GAINERS #4 & 5	"	43.0	4.7	✓	BRAKE LIVING CLUTCH FACING	.0115	0.115	
16.	AT SANDER-MACH. #123 BELT SANDER	"	21.6	2.0	✓	BRAKE LINING	000	000	ONE MAN. EXHAUST
17.	AT SANDER #12	"	28.6	1.6	✓	"	000	000	2 MAN. EXHAUST
18.	AT INSIDE GAINER MACH. #126	"	38.5	.34	✓	"	.000727	0.257	ONE MAN. "
19.	GENERAL AIR - INSPECTION AND SHIPPING DEPT.	"	39.1	1.4	✓	CLUTCH FACING	000	000	
20.	AT AUTOMATIC DRILL PRESS MACH. #123	"	56.5	.82	✓	BRAKE LINING	000	000	ONE MAN. EXHAUSTING MACHINE FROM CRIB/CRIB PLANT
21.	AT SANDER #130 GRINDING EDGES OF BRAKE LINING	"	27.7	3.5	✓	"	000	000	ONE MAN. EXHAUST
22.	AT INSPECTION TABLE - CLUTCH FACING	"	36.9	4.2	✓	CLUTCH FACING RINGS	.000799	.0264	4 MEN - THREE MEN
23.	AT EXTERNAL GRINDER MACH. #125	"	38.6	1.3	✓	BRAKE LINING	.000363	.0128	500 LBS. TO 7005 IN PRESS. CUS. SURVEY. ONE MAN. EXHAUST
24.	BETWEEN SANDER #116 AND SANDER #117	"	31.6	2.1	✓	"	.000886	.0313	ONE MAN. EXHAUST CAPACITY 100 "
25.	TAPPING RINGS - INSPECTION FOR CRACKED RINGS	"	26.8	82.1	✓	RING	.00261	.0921	ONE MAN.