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RESULTS OF AIR SAMPLES

H.K. PORTER COMPANY
Davidson, North Carolina

Report Prepared By:

Howard E. Ayer

July, 1964



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Plant # 3

July 27, 1964

Through: State Health Officer

Dr. W. L. Wilson, Chief
Occupational Health Section
North Carolina State Board
of Health
Raleigh, North Carolina

Dear Dr. Wilson:

Enclosed are three copies of results of sampling at the
Davidson Works, H. K. Porter Company, conducted during March and
April.

Sincerely yours,

Howard E. Ayer
Senior Sanitary Engineer
Asst. Chief, Engineering
Section
Research and Technical
Services Branch

Enclosures

cc:
Mr. Lunsden, N.C.
Mr. H. Kumsatz, Region III

HEAYER:vm

Results of Air Samples of March-April 1964
Davidson Works, H.K. Porter Company

Operation	Impinger		Membrane Filter		
	Sample #	mppcf	Sample #	Total	Fibers/cc 10 µ*
Fiber Preparation					
Blender Operation-BZ	12	1.4	11A	10.3	2.3
	401	7.2	402	122.1	30.5
	403	1.1	404	57.6	0.7
Stock Packer--Person.			200	7.3	1.5
			201	15.6	4.0
			202	12.2	3.9
			411	23.7	6.4
			426	12.3	2.2
General Air--BZ	109	0.9	110	3.7	1.0
Carding					
Fixer - BZ	427	5.9	428	32.4	3.4
	432	4.0	433	23.1	5.6
Operator - BZ	14	2.2	13	21.2	7.6
	30	5.1	29	21.6	5.6
	405	2.5	406	18.6	6.5
	407	1.8	408	10.3	2.8
	409	0.9	410	12.3	3.9
Person.			101	7.7	4.1
			203	10.6	2.8
			204	24.2	7.7
			413	18.9	4.3
			424	16.2	4.3
Roving Hauler - BZ	420	2.8	419	50.1	15.2
	421	2.5	422	20.8	13.4
Person.			425	25.9	10.1
General Air	21	2.2			
			15	22.4	4.0
			16	29.4	14.2
	22	2.2			
			17	9.8	3.3
	23	2.2			
			18	8.2	3.6
	24	0.3			
			19	12.2	0.6

NOTES ON ABBREVIATIONS

"Person." refers to personal samples on membrane filters

"BZ" refers to breathing zone samples by companion impinger & membrane filter

Davidson Works, H.K. Porter Company

Operation	Impinger		Membrane Filter		
	Sample #	mppcf	Sample #	Fibers/cc	
				Total	10 μ t
Carding (continued)					
General Air (cont.)	25	1.0	20	6.9	1.2
	26	1.0			
	205	3.1	208	28.4	8.1
Spinning					
Spinner Ring--BZ	9	6.2	8	35.2	8.8
	11	1.0	10	20.1	4.5
			32	31.6	11.7
			31	32.4	12.5
	221	3.4	222	25.4	6.0
	414	4.0	415	19.9	3.0
	416	3.7	417	11.9	7.1
Person.			412	23.8	11.5
Gen. Air	134	0.2	135	0.2	0.1
Yarn Weigher-Person.			219	3.2	2.6
Doffer - Person.			218	8.0	2.3
Twisting					
Twister - BZ	5	4.2	4	17.6	9.2
	7	3.1	6	13.4	7.3
	216	11.0	214	45.4	10.6
	224		223	7.5	3.6
	434	4.0	435	21.4	4.5
	436	5.1	437	7.7	1.8
	438	1.7	439	10.1	2.0
	440	2.8	441	19.5	7.6
Person.			102	6.3	1.7
			106	16.1	6.0
			210	12.6	2.3
			213	14.6	3.5
			215	14.1	4.0
			423	16.9	9.0
			429	0.5	0.0

Davidson Works, H.K. Porter Company

Operation	Impinger		Membrane Filter		
	Sample #	mppcf	Sample #	Fibers/cc	
				Total	10 μ +
Twisting (continued)					
Doffer - Person.			211	10.9	3.5
General Air	113	2.0	115	56.5	25.2
	123	1.9	125	23.5	4.7
	127	0.9	129	2.9	0.6
	131	0.4	132	7.6	2.4
	116	0.8			
	118	0.5	117	10.3	2.5
	120	0.9	119	16.8	2.9
			121	11.3	1.5
Winding					
Winder (Spool)-EZ	430	1.5	431	4.4	1.6
	28	2.4	3	2.7	0.7
			27	19.9	9.1
Person.			107	9.8	6.5
			212	-	-
			217	4.5	0.7
Weaving					
Weaver Tape - EZ	103	0.0			
	195	0.6	194	4.2	2.2
	197	0.7	196	0.5	0.1
	199	0.1	198	0.4	-
	615	0.7	614	0.1	0.0
	702	0.5	701	0.5	0.5
Person.			292	0.2	0.2
			293	1.7	0.6
			295	3.2	1.8
Winder-Cop - EZ	617	0.5	616		
Person.			294	2.6	1.6

Davidson Works, H.K. Porter Company

Operation	Impinger		Membrane Filter		
	Sample #	mppcf	Sample #	Total	Fibers/cc 10 μ +
Weaving (continued)					
Yarn Hauler - Person.			220	5.8	1.9
Gen. Air	104	0.6	105	5.7	1.4
	365	0.0	367	2.0	1.6
Miscellaneous	361	0.2	363	3.4	2.1
Janitor - BZ	36	2.8	35	44.1	22.1
	38	0.0	37	4.2	1.8
Person.			34	25.1	9.6
			33	7.4	1.3