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CONFIDENTIAL

Environmental Control Department
Research & Engineering Center
May 22, 1969

J. A. Krochta - Manville

Manville Textile Plant
Special Survey



On Saturday, May 17, special dust counts were taken in the Carding and Twisting Departments. Selected areas were sampled before and after correction for comparison of results. The results of the sampling areas as listed in G. L. Swallow's schedule of May 5, 1969, are as follows:

<u>Test No.</u>	<u>Location</u>	<u>Reading Fib/cc >5 μ</u>
1a	Card tender for #10 Card-equipped with new enclosure	1.9
1b	Card tender for #11 Card-without enclosure	3.5
2a	Card room stocker - new bag & box blend feeder	6.8
2b	Card room stocker - Manual feeding by the standard old method	11.4
3a	Aisle side of #10 Card-equipped with automatic fly conveyor	3.6
3b	Aisle side of #11 Card-not equipped with automatic fly conveyor	5.7
4-1a	Twister operator for #5 twister (north side). During wet process	3.2
4-2a	Twister operator for #6 twister (south side). During wet process	4.4
4-1b	Twister operator for #5 twister (north side). During dry process	14.7
4-2b	Twister operator for #6 twister (south side). During dry process	11.4

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All samples were taken by the Membrane Filter Technique. The J-M accepted standard by this method is 6 fib/cc.

Aisle samples 3a and 3b were station samples while the remaining tests were personal samples. The Card Room Stocker tests were obtained only during the actual feeding process. Twisting by the wet process showed a marked decrease in the visible dust concentration around the twisting frames.

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