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Let's Review
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INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

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to (Name) MR. L. L. CARPENTER
Subject CHEMICALS AND PLASTICS
Location BOUND BROOK, N. J.

Date APRIL 17, 1969

Originating Dept ENGINEERING

Receiving letter date

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ADMINISTRATION FILE
CHRONOLOGICAL FILE

COPY

Received

APR 18 1969

by W. C. Lund

Subject ASBESTOS DUST IN ROOMS 351 AND
365, BUILDING 95, BOUND BROOK

THE TENSILE SAMPLES PREPARATION AREA IN BUILDING 95 IN BOUND BROOK IS AT TIMES CONTAMINATED WITH ASBESTOS DUST. THE DUST IS PRODUCED BY A BAND SAW AND TWO MILLING MACHINES USED TO SHAPE TENSILE SAMPLES FROM PLASTIC MATERIALS CONTAINING ASBESTOS. THE BAND SAW IS LOCATED IN ROOM 365, THE MILLING MACHINES ARE LOCATED IN ROOM 351. CURRENTLY, PERSONNEL ARE WEARING RESPIRATORS TO PREVENT INHALATION OF ASBESTOS LADEN DUST.

THE AREA IS CONTAMINATED WHILE MACHINES ARE USED, AND IT IS ESTIMATED THAT IT TAKES SEVERAL HOURS AFTER THE MACHINES ARE SHUT OFF UNTIL AN ACCEPTABLE LEVEL OF DUST CONTAMINATION IS REACHED IN THE ROOMS.

THE FOLLOWING GIVES PROPOSED SOLUTIONS TO THE CONTAMINATION PROBLEM.

SUGGESTED EXHAUST SYSTEM

LOCATE ALL ASBESTOS DUST PRODUCING MACHINES IN ONE ROOM. PROVIDE NEW HOODS FOR THE BAND SAW AND THE LARGE MILLING MACHINE. SUGGESTED HOOD DESIGNS (ATTACHED) IS GIVEN IN FIGURES VS-209 AND VS-706. FOR THE SMALL "TENSILE-KUT" MILLING MACHINE THE EXISTING VACUUM CLEANER CAN BE USED, BUT THE EXHAUST FROM THIS MACHINE MUST BE CONNECTED TO DUCTWORK LEADING TO THE OUTSIDE OF THE BUILDING. DISCHARGE SO AS NOT TO BLOW BACK INTO THE BUILDING THRU WINDOWS OR ANY AIR INLETS.

A DIAGRAM GIVING DUCT SIZES AND AIR VOLUMES IS SHOWN IN FIGURE 1. A NEW 2120 CFM EXHAUST FAN WILL BE LOCATED ON THE ROOF ABOVE. SPECIFICATIONS FOR THE FAN, (FAN "A") ARE GIVEN IN THE APPENDIX. THE EXHAUST AIR WILL BE DISCHARGED THROUGH A 7 FOOT HIGH STACK, DISCHARGING UP. THE FAN WILL BE STARTED BY A PUSH-BUTTON STATION LOCATED NEAR THE BAND SAW. A NEW ELECTRIC STARTER IS REQUIRED FOR THE FAN.

THE DUCTWORK SHOULD BE PROVIDED WITH CLEAN OUT DOORS IN FAN OUTLET AND AT ALL CHANGES OF DIRECTION IN THE DUCTWORK.

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