PLAINTIFF'S EXHIBIT
FD-1664

Inter Office

Personnel and Organization Staff

April 8, 1981

Mr. R. P. Doherty
Manufacturing Manager
Sheldon Road Plant

cc W. G. Atkins W. G. McGruther
J. E. Fisher J. E. Tennant

Subject: Airborne Asbestos Monitoring - Sheldon Road Plant

As requested by Manufacturing Staff, airborne asbestos monitoring was conducted at the Sheldon Road Plant on March 6, 1981 to determine if residual concentrations of asbestos are present in plant air in areas that formerly used asbestos in heater housing manufacture. Air samples were taken in the former mix room and former molding and deflashing areas. In addition to the air samples, settled dust sampled were gathered in the mix room.

The former molding and deflashing area is now the Injection Molding Department (Dept. No. 8610) and the former mix room is now the Maintenance Fabrication Department (Dept. No. 8430). All of the equipment used in the molding and deflashing of the asbestos reinforced heater housing has been removed. The mixers and extruders used in the mix room have been removed, but the asbestos storage silos remain. The statement was made by supervision of the Maintenance Fabrication Department that asbestos is still in the silos. The first floor utility entrance to the silos are not sealed and are being used for storage.

The permissible occupational exposure limit (PEL) for asbestos is 2.0 f/cc and the medical monitoring action level is 0.1 f/cc. As can be seen from a review of the attached data, all of the results of air samples taken were significantly below the PEL and action level.

Four settled dust samples were obtained in the former mix room. The samples were analyzed by the Ford Industrial Hygiene Laboratory using a quick screening test for asbestos developed by the National Institute for Occupational Safety and Health (NIOSH). The samples taken from one of the supply air ducts and the upper sill of one of the materials elevators were positive for asbestos. Of particular concern is the sample from the supply air duct, because several inches of dust was observed in the bottom of the duct directly below the air register. The supply air system, which is also part of the heating system, was not operating on the day of our visit, but we understand it is an active system. It is probable that when the supply air system is operational airborne asbestos concentrations approaching the medical monitoring action level may be detected.

Based on the positive identification of asbestos in the supply air ducts and in the settled dust collected on the materials elevator, it is recommended that:

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1) The exterior and interior of supply air ducts located on both floors of the former mix room be cleaned using vacuum cleaners approved for asbestos clean-up and after vacuuming be washed down with water. Special attention must be given to areas where dust may have accumulated, such as elbows, traps, and points farthest from the fan station.

2) After the supply air ducts are cleaned, the fixtures, walls and ceiling of the former mix room be cleaned.

3) Asbestos warning signs be posted during the clean-up operation per OSHA 1910.1001 paragraph g, page 549.

4) Approved respiratory protective equipment (Industrial Relations Bulletin No. 15) be worn by all employes engaged in the clean-up operation.

5) Special clothing including coveralls, headcoverings, gloves, and foot coverings, per OSHA 1910.1001 paragraph 3, page 547 be worn by all employes engaged in the clean-up operation. Employes must also be provided with a restricted area to change out of the special clothing and shower. Further the contaminated clothing must be laundered or disposed of according to the provisions of OSHA 1910.1001 paragraphs b and c, page 548.

6) Employes involved in the clean-up operation should be included in the medical monitoring program being conducted by the plant for employes who were exposed to asbestos during the production of asbestos reinforced heater housings.

7) The first floor entrances to the silos should be permanently sealed and plans made to dispose of the asbestos remaining in the silos in the near future. Further, until the asbestos is disposed warning signs as specified in recommendation No. 2 must be posted.

H. B. Lick

H. B. Lick
Senior Industrial Hygienist
Industrial Hygiene and Toxicology Dept.
Employe Health Services

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Attachments

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INDUSTRIAL HYGIENE SERVICES SECTION
INDUSTRIAL HYGIENE AND TOXICOLOGY DEPARTMENT
EMPLOYE HEALTH SERVICES

SHELDON ROAD PLANT
Departments 8430 and 8610
March 6, 1981

PERMISSIBLE OCCUPATIONAL EXPOSURE LIMITS FOR AIRBORNE CONTAMINANTS

Contaminant	Permissible Exposure Limit in f/cc*
Asbestos	2.0

*f/cc = fibers of asbestos per cubic centimeter of air

RESULTS

Location/Conditions	Airborne Asbestos Concentration in f/cc
Dept. 8430 - Maintenance Fabrication (Former Asbestos Mix Room)	
General Area Air Sample, 1st floor at D-9 end of room	0.008
General Area Air Sample, 1st floor at D-11 end of room	0.009
General Area Air Sample, 2nd floor at D-9 end of room	0.008
General Area Air Sample, 2nd floor at D-11 end of room	0.008
Dept. 8610 - Injection Molding (Former Molding and Deflashing Dept)	
General Area Air Sample at column D-11	0.009
General Area Air Sample at column F-10	0.007
General Area Air Sample at column E-14	0.009
General Area Air Sample at column H-11	0 009

DATA RETRIEVAL NUMBERS: HBL 1198 - 1205

INSTRUMENTATION AND ANALYSIS: Bendix BDX pumps with Milipore Type AA 0.8 u membrane filters. Fibers counted using 430X Phase Contrast Microscopy.

ANALYST: L. Latorre, Senior Industrial Hygienist

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INDUSTRIAL HYGIENE SERVICES SECTION
INDUSTRIAL HYGIENE AND TOXICOLOGY DEPARTMENT
EMPLOYE HEALTH SERVICES

SHELDON ROAD PLANT
March 6, 1981

Settled Dust Sample Screening for Asbestos

Location	Results
Floor of silo 6092	Negative
Upper sill of elevator 6051A	Positive
Supply air duct, 2nd floor of former mix room	Positive
Stairway to 2nd floor of mix room at D-9 end	Negative

DATA RETRIEVAL NUMBERS: HBL 1206-1209

ANALYSIS: NIOSH Quick Screening Test for Asbestos

ANALYST: L. Latorre, Senior Industrial Hygienist

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