

Ford Motor Company

Intra-Company Communication

July 13, 1967

Mr. C. C. Johnson
Plant Engineering
Rawsonville Plant
General Parts Division

Subject: Dust Collector Effluent, Sheldon Road Plant

Air samples were obtained on the exhaust side of the number one heater housing line collector. At present, the exhaust air from this and similar collectors in the area is recirculated into the plant workroom atmosphere. Carried with it is the fine dust that escapes collection.

There was some question as to whether the dust contained toxic materials and whether it was escaping in concentrations considered to be excessive.

Analysis of the collected dust sample indicated the presence of approximately 25 per cent asbestos. Asbestos dust is considered toxic and requires control.

The Michigan Department of Health requires that any exhaust system used to collect in-plant air contaminants must be discharged to the outside of the plant if the collected components in the stack effluent exceed ten per cent of their Threshold Limit Value.

Based on the asbestos present in the samples collected, we find that excessive levels of dust are recirculated into the plant workroom atmosphere by the present collector system. We recommend, therefore, that the exhaust from the collector studied and those functioning in a similar capacity be discharged to the outside of the plant.

Paul E. Toth, Supervisor
Industrial Hygiene Unit

cc: L. A. Jackson
T. I. Kopke
W. H. Willeke

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SCF-FORD-0530

Data Sheet

Sheldon Road Plant

Dust Collector Discharge Samples

Dust Count Samples

<u>Test Conditions</u>	<u>Concentration of Dust in Million Particles per Cubic Foot of Air Sampled</u>
Michigan Department of Health Maximum Allowable for Recirculated Air	0.5
1. Sampled at discharge side of #1 collector and on Heater Housing Line	3.0
2. Same as #1	3.2

Total Weight of Sample

	<u>Result in Milligrams per Cubic Meter of Air Sampled</u>
1. Sampled at discharge side of #1 collector and on Heater Housing Line	1.8

Note: Concentration of Asbestos found in collected sample 25.0 %

Instruments used: Greenburgh Smith Impinger and Staplex High Volume Sampler.
Dust counts were made with the standard light field count
technique.

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