

June 5, 1972

Mr. W. H. Wilkins
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Sheldon Road Plant

Subject: Dust Exposure - Sheldon Road Plant

As requested, an industrial hygiene study was conducted on April 18, 1972, to evaluate employee exposure to asbestos laden dust in accordance with the Occupational Safety and Health Act's standard sampling procedure and Threshold Limit Value. The areas sampled included mixing, deflashing, and drilling. The results of the air samples taken and the instrumentation used are contained on the attached data sheets.

As we have stated in our previous discussions and reports, the OSHA Threshold Limit Value is now based on fibers greater than five microns in length per milliliter of air. Also, there has been some disagreement as to the sampling and laboratory technique used for evaluation purposes. The study covered by this report reflects current thinking by both governmental and industrial activities on this subject.

By a review of the data, it can be seen that one sample exceeds the current OSHA TLV of five fibers greater than five microns in length per ml of air. If the TLV is lowered (a proposal has been submitted to the Secretary of Labor for approval) to two fibers, then eight samples will exceed the TLV. Another factor to consider is that unions representing asbestos workers are lobbying for a one fiber greater than five micron per ml limit. In this case, no area sampled would comply.

In the most likely event that the Criteria Document for Asbestos published by the National Institute for Occupational Safety and Health is accepted as the new standard, then in light of the air samples taken several actions will be mandatory: (1) All air samples will be evaluated on a two fiber greater than five micron per ml TLV; (2) Medical evaluation including chest X ray will be required on employees in areas exceeding one fiber greater than five micron per ml; (3) Pre-placement and separation medical evaluation will be required; (4) Coveralls furnished and laundered at Company expense will be required; (5) All dust cleanup shall be done by vacuum methods with no dry sweeping allowed; (6) Air samples must be taken on an annual basis and quarterly samples will be required at areas exceeding the two fiber TLV; (7) Warning signs must be posted near areas using the asbestos compound.

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SCF-FORD-0826

Data Sheet
Sheldon Road Plant

April 18, 1978

<u>Location</u>		Concentration of Asbestos Dust in Air in Fibers Greater Than 5 Microns in length per Milliliter of Air
OSHA Threshold Limit Value		5
" Proposed Threshold Limit Value		2
<u>Mixing Room</u>		
2.	Upper Level, Mixer Operator E. Etchison, SS #6993, worker's breathing zone air sample (B.Z.), Machine B.T. #6000	2.9
2.	Upper Level, Mixer Operator R. E. Harper, SS #4170, B.Z., Machine B.T. #6059	3.9
3.	Downstairs, General Room Air Sample at center of room	5.4
<u>Line</u>		
4.	101 - Lead Drill Operator G. Schovier, SS #4581, B.Z., Lead Drill No. 1	3.7
4.	101 - No. 2 Deflasher Operator L. Schach, SS #3910, B.Z.	1.7
6.	101 - No. 1 " " R. Shuryan, SS #1183, B.Z.	2.3
7.	101 - & 102 Center Deflasher Operator R. E. Stanley, SS #4093 B.Z.	1.2
8.	102 - Lead Drill Operator G. Jensen, SS #0000, B.Z., Lead Drill No. 2	2.0
9.	103 - General Air at 14' aisle	1.1
10.	103 - Lead Drill Operator G. Garner, SS #5147, B.Z., Lead Drills Nos. 3 & 4	3.8
11.	103 - First Deflasher behind Press Operator G. Wacker, SS #7673, B.Z.	2.5
12.	106 - General air at 14' aisle	1.7
13.	106 - Lead Drill Operator P. Furensal, SS #6191, B.Z., B.T. #1753	1.9
14.	107 - First Deflasher Operator E. Harris, SS #0393, B.Z.	1.5
15.	109 - " " " J. Wadern, SS #1812, B.Z.	1.5

Instrumentation: MSA Model 8. Pump at 2.0 LPM using Millipore Type AA Membrane Filters.

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