



To: Mr. Dean Wilson
General Superintendent
Homestead Works

Interorganization Correspondence

Date: April 13, 1976

From: W. C. Janes, Manager
Environmental Health

Subject: Asbestos Survey
Forge Shop

File
PLAINTIFF'S
EXHIBIT
USX-125

As requested, an Environmental Health survey was conducted on March 29, 1976 at the Forge Shop of the Homestead Works by T. M. Civic, Environmental Health Engineer. The purpose of the survey was to determine if the aluminized asbestos apparel worn by the scarfers during scarfing operations constituted an asbestos exposure.

The present OSHA standard for exposure to asbestos dust is 5.0 fibers, longer than 5 micrometers, per cubic centimeter of air, based on an 8-hr. time-weighted average exposure. On July 1, 1976, the 8-hr. time-weighted average limit will be reduced to 2.0 fibers/cm³ of air. OSHA has recently proposed to further reduce the daily 8-hr. average exposure limit to 0.5 fibers/cm³ of air.

The time-weighted average exposures of the scarfers monitored during scarfing operations were found to be well below the present Federal standards, as well as the proposed OSHA limit of 0.5 fibers/cm³ of air. Airborne asbestos concentrations ranged from 0.04 fibers/cm³ of air to 0.19 fibers/cm³ of air, while time-weighted average exposures of 0.04 fibers/cm³ of air and 0.06 fibers/cm³ of air were obtained for the two scarfers monitored.

These test results indicate the aluminized asbestos clothing worn by the scarfers releases asbestos; consequently, the scarfers are exposed to asbestos fibers and should be included in the annual medical monitoring program outlined in Federal Register, Vol. 39, No. 125, June 27, 1974, Section 1910.93.

The asbestos fibers probably become airborne when the coat is put on or removed. A sample taken after all operations had ceased indicated there was no exposure to asbestos after operations had ceased and the coat was no longer handled.

W. C. Janes
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TMC/mdd
Attachment

USX0002266

TABLE 1
Asbestos Clothing Survey
Honestead Works
3-29-76

Occupation	Duration of Test (Min.)	Asbestos Exposure Fiber/cm ³	Remarks
Scarfer #1			
Test #1	27	0.19	Scarfer-wearing aluminized asbestos clothing
Test #2	110	0.15	Scarfer-wearing aluminized asbestos clothing
Test #3	92	0.10	Scarfer-wearing aluminized asbestos clothing
Test #4	158	0.0	No scarfer-not wearing aluminized asbestos clothing
Scarfer #2			
Test #1	52	0.12	Scarfer-wearing aluminized asbestos clothing
Test #2	52	0.12	Scarfer-wearing aluminized asbestos clothing
Test #3	220	0.04	Scarfer-wearing aluminized asbestos clothing

Time-Weighted Average #1 Scarfer - 0.06 fibers/cm³ of air

Time-Weighted Average #2 Scarfer - 0.04 fibers/cm³ of air