PLAINTIFF'S
EXHIBIT
USX-72

To: D. M. Ferguson
L. G. Gainer

United States Steel Corporation
EASTERN STEEL DIVISION

Date: March 18, 1980

From: N. R. Stromness, Superintendent
Environmental & Health Services

Subject: Asbestos Survey - Patchers

On March 11, 1980, an asbestos survey was conducted on #8 Battery. The purpose of the survey was to evaluate employee exposures to asbestos fiber while using asbestos rope to pack slipjoints.

Criteria:

OSHA limits an employee exposure to asbestos dust to two fibers longer than five micrometers per cubic centimeter of air based on an eight hour time weighted average exposure.

Conclusions:

The results of the survey (Table 1) indicate time weighted average exposure of 0.08, 0.05, and 0.03 fibers/cc of air for the three employees monitored. These exposures are within the permissible exposure limit of 2 fibers/cc as established by OSHA.

Recommendations:

1. During the survey, it had been noted that compressed air was used to blow out slipjoints. This practice should be discontinued immediately.

2. The Safe Job Procedure (P-31) January 29, 1980, should be followed.

N. R. Stromness

PRB/cay
Attachments

ASBESTOS SURVEY

CLAIRTON WORKS

3/11/80

TABLE I

Activity	Duration/minutes	Asbestos Exposure Fibers/cc
(Replacement of 4 standpipes on #8 Battery)		
Patcher - Pavlack		
Chipped out old asbestos around the standpipe, cleared out old asbestos with compressed air. After the standpipe was removed, used compressed air to clear opening of debris. Also chiseled carbon from inside of opening. Sprayed in repair cement. After new pipe was put in place, he packed the wet asbestos rope in slipjoint and sealed with mortar.	138	.16
Continued as above on other standpipes as they were removed. Alternated jobs with other Patcher.	45	.33
Time Weighted Average exposure (TWA) is .08 fibers/cc air		
Patcher - Day		
Chipped out old asbestos around the standpipe. After the standpipe was removed, used compressed air to clear opening of debris. Also chiseled carbon from inside of opening before spraying in repair mortar. After new pipe was put in place, he packed wet asbestos rope in the slipjoint & sealed with mortar	135	.11
Continued as above on other standpipes as they were removed. Alternated jobs with other Patcher.	48	.23
Time Weighted Average exposure (TWA) is .05 fibers/cc air		

3/11/80
ASBESTOS SURVEY
(continued)

Activity	Duration/minutes	Asbestos Exposure Fibers/cc
(Replacement of 4 standpipes on #8 Battery)		
Patcher - Walker		
Worked on walkway above battery main. Chipped out asbestos around upper slip-joint. After new pipe was put in place, packed slipjoint with wet asbestos rope and sealed with mortar.	129	.06
Continued as above with packing new slip-joints as the pipes were replaced.	55	.14

Time Weighted Average exposure (TWA) is .03 fibers/cc air