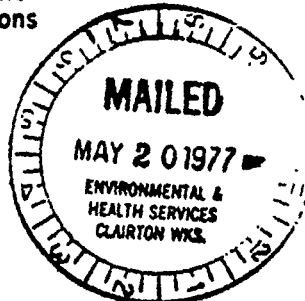


To: T. G. Wylie
Division Superintendent
Coal and Coke Operations



Subject: Asbestos Survey

 **United
States
Steel
Corporation**

EASTERN STEEL DIVISION

Date: May 20, 1977

From: P. K. Morrison
Superintendent
Environmental and Health Services

On April 21, 1977, an asbestos survey was conducted on Number 19 Battery. The purpose of the survey was to evaluate employee exposures to asbestos fiber while using asbestos rope to pack slip joints.

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 exposures of 0.04 and 0.03 fibers/cc of air for the two employee monitored. These exposures are well below the 2.0 fibers/cc permissible limit. It should be noted that the asbestos rope was wetted before packing the slipjoints. This practice should be continued. This monitoring fulfills the initial monitoring requirements of the OSHA standards for usage of asbestos rope for packing of slip joints. The use of asbestos rope for the packing of slip joints may be expanded.

TMC/ers

Attachment

cc: L. G. Gainer
R. E. Lewis
R. L. Walls

USEI000069

TABLE I
Asbestos Survey
Clairton Works
4-21-77

<u>LOCATION</u>	<u>DURATION</u> <u>MINUTES</u>	<u>ASBESTOS EXPOSURE</u> <u>FIBERS/CC</u>
<u>Patcher</u>		
B. C. Hickman - 19 Battery		
(a) Carry dry asbestos chip out super 2000	29	0.00
(b) Chip out super 2000	16	0.05
(c) Carry and wet asbestos, pack slipjoint	44	0.02
(d) Break	115	0.11
(e) Break	59	0.06
(f) Blow off gooseneck, pack slip joint	28	0.06

Time weighted average exposure - (TWA) is 0.04 fibers/cc of air.

Table I
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Asbestos Survey
Clairton Works
4-21-77

LOCATION	DURATION MINUTES	ASBESTOS EXPOSURE FIBERS/CC
<u>Patcher</u>		
M. Cook - 19 Battery		
(a) Carry dry asbestos chip out 2000	29	0.06
(b) Chip out super 2000	16	0.00
(c) Carry wet asbestos, pack slipjoint	42	0.08
(d) Chip super 2000	44	0.16
(e) Break	115	0.02
(f) Break	59	0.04
(g) Blow off gooseneck, help pack slipjoint	28	0.00

Time weighted average exposure (TWA) is 0.03 fibers/cc of air.