PLAINTIFF'S EXHIBIT

UC-4618

5D 1HF Asbestos

Industrial Hygiene Department PRELIMINARY REPORT	Plant: 510 Date: 6-15-73	DISTRIBUTION: TO: A. W. Boyd/ COPIES: P. A. Walden, J See attached list

PROBLEM: To evaluate personnel exposures to asbestos while tearing out Kaylo-10 and 20 insulation from the top and bottom flanges of No. 27-2 converter at Oxide I.

PROCEDURE: Method 38C-29X4-R1a was followed, as prescribed by OSHA regulations. Five samples were collected in the breath zones of Jim Coons, Bob Ruiz, and Erasmo Villa, (B & R), as they tore out Kaylo-10 and 20 insulation from the top and bottom flanges on No. 27-2 converter at Oxide I in preparation for a catalyst change. Insulation on the converter could not be wetted because it was too hot, however, insulation on the pad and flying dust was sprayed with water. This was a very dusty operation with the wind blowing the dust a good distance downwind. Bendix C-115 air pumps and Millipore filter cartridges were used to collect the samples. Slides were prepared and counted using the Nikon Sub P-Kt binocular phase contrast microscope.

RESULTS:

Sample No.	Date	Location	Operation	Fibers per Cubic Centimeter > 5 Microns
1	6-8-73	Jim Coons	Clean up	1.0
2	6-8-73	Jim Coons	Tear out	3.5
3	6-8-73	Erasmo Villa	Tear out	1.5
4	6-8-73	Bob Ruiz	Tear out	4.1
5	6-8-73	Erasmo Villa	Tear out	1.2

Bureau of Mines approved MSA custom Comfo Respirators, No. 86432 were worn.

RECOMMENDATIONS: The data indicates that this operation was within the five fibers per cubic centimeter longer than five microns, standard for the eight hour time weighted average (TWA). Altho the data indicates this operation to be within the standard, it is good hygienic practice to wear respiratory protection while handling asbestos materials. A better effort must be made to keep people out of the area during tear-outs by roping it off and posting asbestos warning signs.

REMARKS: As of July 1, 1976, TWA concentrations of asbestos fibers longer than five microns will not be allowed to exceed two fibers/ml (Federal Register, Vol. 37, No. 110, June 7, 1972.)

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UCCTXC 06095

Published by AsbestosClaims.Law
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