Inter Office

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FIRE
SAFETY & SECURITY

Personnel and Organization Staff

January 7, 1981

W. R. Clemett, Manager
Arizona Proving Ground

cc: T. LaBo ✓
D. J. Sherman, M.D.

Subject: Industrial Hygiene Survey - Asbestos Fibers - Arizona Proving Ground

At your request an industrial hygiene survey was performed at the subject location. The purpose was to evaluate employe exposures to airborne asbestos fibers at the brake replacement operation and thermocouple drilling operation.

The results of representative breathing zone samples at both operations indicate that no detectable exposures to asbestos were found. Additionally, the results of the analysis of a bulk sample of brake lining dust revealed no detectable asbestos content.

Based on the above results, it is concluded that no apparent health hazard existed. Since the detectable limit of the samples was less than the Ford Motor Company guideline for medical monitoring of 0.1 fibers per cubic centimeter, no such monitoring is required. Notwithstanding the above, all asbestos containing waste (i.e. drilling dust) should be collected and disposed of in sealed impermeable bags or other impermeable containers in accordance with the OSHA Asbestos Standard (29CFR 1910.1000(h)(2)).

If there are any questions, contact the writer at 33-78955.

M. J. O'Brien
Senior Industrial Hygienist
Industrial Hygiene and Toxicology Dept.
Employe Health Services

Attachment
dt

SCF-FORD-3020

8004 1173

INDUSTRIAL HYGIENE SERVICES SECTION
INDUSTRIAL HYGIENE AND TOXICOLOGY DEPARTMENT
EMPLOYE HEALTH SERVICES

ARIZONA PROVING GROUNDS
September 30 and October 1, 1980

Asbestos Use Areas

PERMISSIBLE OCCUPATIONAL EXPOSURE LIMIT TO AIRBORNE CONTAMINANTS

(f/cc = fibers per cubic centimeter of breathing zone air)

Contaminant	8-Hour Time Weighted Average Exposure Limit
Asbestos	2 f/cc

RESULTS

Employe Name/Date	S.S. Number	Sample Time (Min.)	Airborne Asbestos Concentration (f/cc)
I. Brake Shoe Replacement			
W. W. Mizell 9/30	421-16-9561	53	N.D.^{1}
		52	N.D.^{1}
		52	N.D.^{1}
		52	N.D.^{1}
		Time Weighted Average Exposure	N.D.^{1}
II. Thermocouple Drilling			
W. A. Beezley 10/1	526-26-1920	23	N.D.^{2}
		23	N.D.^{2}
		Time Weighted Average Exposure	N.D.^{2}

N.D.^{1} = None detected at 0.03 f/cc
N.D.^{2} = None detected at 0.06 f/cc

DATA RETRIEVAL NUMBERS: MJO 2110-2115

EQUIPMENT: Bendix BDX-44 personal sampling pumps and open-faced 0.8 u AA filters

ANALYSIS: Personal samples analyzed using phase contrast microscopy by Clayton Environmental Consultants, Inc.

Bulk sample analyzed by polarized light microscopy by Clayton Environmental Consultants, Inc.

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