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November 14, 1968

Mr. Howard Okubo
Borg-Warner, Spring Division
25th and Madison Avenue
Bellwood, Illinois 60104

Dear Mr. Okubo:

Your questions concerning airborne contamination from asbestos fiber have been referred to me by our Mr. Jon Partridge.

Threshold Limit Values for all toxic materials are determined by the American Conference of Governmental Industrial Hygienists. These values refer to the airborne concentration of substances, and represent conditions under which it is believed nearly all workers may be repeatedly exposed, day after day, without adverse effect. The TLV for asbestos fiber has been set at 5 million particles per cubic foot of air (5 MPPCF). However, the ACGIH has recently recommended that this TLV be reduced to 2 MPPCF or 10 fibers per cc. The particle count measurement is done by the impinger method and the fiber per cc count done by the membrane filter technique. Both of these sampling and analysis procedures have been developed by the United States Public Health Service. Complete information on the procedures and their application can be obtained from:

Mr. Howard Ayer
Chief Environmental Activities
Field Studies
Occupational Health Program
Department of Health, Education & Welfare
1014 Broadway
Cincinnati, Ohio 45202.

The addresses of individuals to contact in the organizations referred to on page 6 of our paper "Asbestos and Human Health" are as follow:

(1) United States Public Health Service -

Mr. Lewis Crally
United States Public Health Service
1014 Broadway
Cincinnati, Ohio

BMH

November 14, 1968

Mr. Howard Ozmon

(2) Industrial Hygiene Foundation of America

Dr. Robert T. P. deTreville
Industrial Hygiene Foundation of America
5231 Centre Ave.
Pittsburgh, Pa. 15232

(3) Asbestosis Research Council

Mr. B. Holmes, Secretary
Asbestosis Research Council
P.O. Box 40
Rochdale, Lancashire, England

(4) Institute of Occupational and Environmental Health

Dr. P. Pelnar, Scientific Secretary
Institute of Occupational and Environmental Health
Suite 1210
IBM Building
3 Place Ville Marie
Montreal 2, P.Q.
Canada

Airborne particle monitoring equipment is made by at least three firms in the United States, including Bausch and Lomb. The equipment that we use was manufactured by:

Hayes Instruments, Inc.
141 Jefferson Drive
Menlo Park, California.

Whenever this type of equipment is used to determine toxic dust concentrations, it must initially be correlated with data obtained simultaneously by either the impinger or membrane filter techniques, otherwise the data have no significance relative to health hazard.

If you require additional information on this subject, please do not hesitate to contact us.

Very truly yours,

L. K. Fanner, Director
Environmental Control

KKF/ons

bcc: H. W. Acuff - Asbestos 1500
R. G. Donovan
D. Partridge - Chicago Office
R. N. Bell - CHQ
W. P. Holmes - CHQ
File & C

EXHIBIT