



Inter Office

Personnel and Organization Staff

11 March 1983

Mr. W. A. Bliss  
Room 132  
Facilities Services Building

Subject: Insulation Asbestos Content, Maintenance Shop, Building #4

As you requested, we evaluated employee exposure to airborne asbestos from insulation in the Maintenance Shop located in Building #4 of the Engineering and Research Center. A bulk material sample and air sample taken were analyzed for asbestos.

A review of the data indicates that the insulation contains a significant percentage of asbestos but, at the present time, concentrations of airborne asbestos are less than appropriate occupational permissible exposure limits. However, it should be noted that the insulation is friable and has the potential to continually generate airborne asbestos fibers. Therefore, we recommend that:

- o The insulation be removed and replaced with a non-asbestos material, or
- o The deteriorating portions of the insulation be vacuumed with an approved vacuum, and the remaining insulation be sealed with an encapsulating compound.

*H. B. Lick*

H. B. Lick, Senior Industrial Hygienist  
Industrial Hygiene & Toxicology Department  
Employee Health Services

jb  
Attachment

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INDUSTRIAL HYGIENE SERVICES SECTION  
INDUSTRIAL HYGIENE & TOXICOLOGY DEPARTMENT  
EMPLOYEE HEALTH SERVICES

Maintenance Shop, Building #4  
Engineering and Research Center Area

9 February 1983

PERMISSIBLE OCCUPATIONAL EXPOSURE LIMIT (PEL)

|                    | <u>PEL in Fibers/<br/>cc greater than 5 microns</u> |
|--------------------|-----------------------------------------------------|
| Asbestos           |                                                     |
| 8-hour PEL         | 2.0                                                 |
| Short-term limit   | 10.0                                                |
| Medical monitoring | 0.1                                                 |

|                        |                         |
|------------------------|-------------------------|
|                        | <u>% Composition</u>    |
| Bulk Material Analysis | 52% Chrysotile Asbestos |
|                        | 42% Mineral Wool        |
|                        | 6% Inert Other Material |

RESULTS

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
|                                           | <u>Asbestos Concentration in Fibers/cc</u> |
| Maintenance Shop, General Area Air Sample | 0.018                                      |

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DATA RETRIEVAL NUMBER: ARA 463

INSTRUMENTATION AND ANALYSIS: SKC air sampling pump with membrane filter and phase contrast microscopy. Bulk sample NIOSH quick presumptive asbestos test and X-Ray Diffraction.

ANALYST: L. Latorre, Senior Industrial Hygienist, and  
X-Ray Diffraction by ERG, Ann Arbor, Michigan

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