CONSTRUCTION DEPARTMENT SAFETY PROCEDURE

UNION CARBIDE TECHNICAL CENTER

SOUTH CHARLESTON, WEST VIRGINIA

SECTION VIII
PROCEDURE -22-
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ISSUE DATE 05-01-78
SUPERSEDES 03-11-77

PLAINTIFF'S EXHIBIT

UC-3264

SUBJECT: INSULATION APPLICATION, FABRICATION, REMOVAL AND DISPOSAL

PURPOSE: To make known to all Construction Group employees the health hazards and required work procedures for removing and disposing of insulation containing dust and asbestos.

PROCEDURE: There are two inhalation health hazards associated with removing insulation. The first is the problem of nuisance dust which is for the most part an irritant due to abrasive action in the respiratory system, and in this situation the airborne dust concentrations must be kept below 5mg/M^3 without respiratory protection. The second and most injurious health hazard is breathing dust containing asbestos fibers. The exposure limit is five (5) fibers, no longer than five micrometers, per cubic centimeter of air, eight (8) hours time weighted average. This amount will be further reduced effective July 1, 1976 to two (2) fibers, no longer than five (5) micrometers, per cubic centimeter of air. The result of excessive exposure to asbestos is harmful to the efficiency of the lungs and may cause bodily harm. Asbestos is classified as a cancer hazard. For the purpose of this procedure asbestos is defined to include cyrsotile, amosite, crocidalite, tremalite, anthophyllite, and activolite. Whenever any insulation is to be removed, we must assume it will be a dusty job requiring protective equipment for the personnel assigned to the work and that precautions to protect those persons working nearby be taken. When asbestos is present, every effort must be made to eliminate and contain the dust and properly disposed of the waste.

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The following precautions and work practices are the minimum requirements.

1. Request permission to do the work and determine material to be removed.

2. When asbestos is involved, barricade the work area by erecting guardrails by using a rope barricade. Post caution signs at the work site where the airborne concentration of asbestos fibers may exceed the limits. The signs should be located at a distance which will allow an employee to take the necessary protective steps before entering the area.
   The sign should read:

   CAUTION
   AVOID BREATHING DUST
   CONTAINS ASBESTOS
   MAY CAUSE BODILY HARM
   USE PROTECTIVE EQUIPMENT
   DO NOT REMAIN IN AREA

3. Notify persons working nearby that the work is going to take place and to stay away from all visible airborne dust. Notify the Industrial Hygiene Department, Ext. 5129 or 4752 so air sampling to monitor the atmosphere can be arranged. This is required.

4. In so far as practicable, asbestos shall be handled, mixed, applied, removed, cut, scored, or other wise worked in a <u>wet state</u> sufficient to prevent the emission of airborne asbestos fibers in excess of exposure limits unless the usefulness of this product would be diminished therby.

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5. Asbestos cement, mortar, coating, grant, plaster, or similar material containing asbestos shall not be removed from bags, cartons, or other containers in which they are shipped, without being either wetted, or enclosed, or ventilated so as to prevent the release of airborne asbestos fibers.

6. Employees engaged in the spraying of asbestos, the removal or demolition of pipes, structures, or equipment covered or insulated with asbestos, and/or material containing asbestos, and in the removal or demolition of asbestos insulation must use respiratory protective equipment in the form of a respirator with an approved dust filter and more complete protection when conditions warrant.

   A. Normal dust exposure - use 3M respirator, No. 8710 or equivalent.

   B. Heavy dust exposure - use Type "C" air supplied respirator.

7. Special clothing such as coveralls or similar body coverings, head coverings and gloves.

8. Contaminated clothing (coveralls, etc.) shall be collected and transported in sealed impermeable bags or other closed containers to prevent using them.

9. An excellent level of housekeeping must be maintained including cleaning of all surfaces and maintained free of accumulations of asbestos fibers. Area should be wet cleaned or vaccum cleaned. Never use a broom, brush or blow with air.

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10. Disposal of waste materials, debris, bags, equipment and containers which may produce in any forseeable use airborne asbestos fibers, must be collected and disposed of in sealed impermeable plastic bags or impermeable containers. This waste is to be sent to the land fill for burial after requesting and receiving approval of the local plant waste disposal coordinator. Container labels should read:

CAUTION
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
BREATHING ASBESTOS DUST MAY CAUSE
SERIOUS BODILY HARM

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