WV-0236 #42

UNION CARBIDE CORPORATION
Silicones and Urethane Intermediates

RECEIVED
MAY 4 1983
Employee Relations

Institute, WV

For your consideration

RECEIVED
APR 15 1983
J. E. McDermott, Jr.

PLAINTIFF'S EXHIBIT
UCC 39

MEMO TO: R. E. Crum

COPY TO: J. E. McDermott
J. B. Mickey

DATE: April 11, 1983

SUBJECT: Asbestos Handling Procedures

Attached is a recommended revision to the Plant Safety and Health Procedures Manual on the above subject. These revisions address all the appropriate items such as protective clothing, clean room/dirty room, respirators, etc. that needed communicated. Revision of the existing procedure is more appropriate and more permanent than a letter written to the craftsmen and supervisors.

This is only a rough draft and will need some rework before being issued for plant review.

If you have any comments, contact me on Ext. 421.

RECEIVED
APR 25 1983
R. E. CASHDOLLAR

Case #

R. E. Cashdollar

REC/tas

See comments.

Also, Please have Buzzard investigate requiring all insulation purchased for the Plant (by us or thru D&C) to be identified in some manner (all blue, etc.) so that we know & will know 5 yrs from now that it is not asbestos insulation.

Dmid 4/12

RECOMMENDED REVISIONS 4/10/83 ROUGH DRAFT

1.0 SUBJECT: Asbestos Containing Material Handling Procedure.

2.0 PURPOSE: To provide a procedure for the safe handling of material containing asbestos. Asbestos is defined to include Chrysotile, Amasite, Crocidolite, Themolite, Anthophyllite and Actinalite.

3.0 POSSIBLE LOCATIONS FOR ASBESTOS CONTAINING MATERIAL:

Asbestos fiber can be found in insulation used on piping, equipment, etc. that has been installed earlier than about 1973 or 1974. This is when the Sistersville Plant deleted asbestos containing insulation from Stores and went to an "asbestos free" insulation.

Asbestos fibers can also be found in some brake linings used on automobiles, trucks and our work vehicles.

Asbestos fibers can also be found in the wall coverings, insulation, etc. used in the construction industry on older buildings.

4.0 DISCUSSION: There are two health hazards associated with the removal of material containing asbestos.

4.1 Problem of Nuisance Dust, which is an irritant due to the abrasive action of these fibers in the respiratory system. These dust concentrations must be kept below $5mg/m^3$ or respiratory protection must be worn.

4.2 Breathing Hazard: Excessive exposure to asbestos dust is harmful to the lungs. These asbestos fibers have been associated to cancer of the lungs, throat, stomach, colon and rectum. The exposure limit is two (2) fibers, longer than (5) micrometers, per cubic centimeter of air.

5.0 PROCEDURE:

5.1 All asbestos containing material will be handled with extreme care and our goal is to take appropriate measures to eliminate all airborne asbestos fibers.

5.2 When asbestos is involved barricade tape will be used to isolate the area and caution signs will be posted at all access routes to the work area. These signs will be located at a distance which allows an employee to take the necessary protective steps before entering the area.

Signs will read: - CAUTION -

Avoid breathing dust, containing asbestos, wear protective equipment or stay out of area.

5.0 PROCEDURE (CONT.)

5.3 Asbestos containing material will be handled, mixed, applied, removed, cut, or otherwise worked in a wet state sufficient to prevent the emission of airborne asbestos fibers in excess of exposure limits.

5.4 Asbestos containing cement, mortar, coatings, plaster, wrappings, or other materials will not be removed from bags, boxes, or other containers, in which it was shipped, without first wetting, enclosing or ventilating.

5.5 Based on size, complexity and location, the Safety and Health Department shall be notified prior to the start of the job. At that time a decision will be made as to the need for and extent of any monitoring. It is the responsibility of the Supervisor of the personnel handling the asbestos containing material and the actual individual to request monitoring ~~on a frequent basis. This monitoring will be used to determine the effectiveness of our procedures and the degree of exposure, if any.~~ What happens when someone requests monitoring & no one is available to monitor?

5.6 Employees engaged in the handling or removal of asbestos containing material will wear approved respiratory protection. The individuals will normally be insulators, insulator helpers, and vehicle mechanics. This respiratory protection is mandatory at this location for all exposures to asbestos containing material.

Reword

- Normal Exposure - Approved Respiratory Equipment

- Heavy Exposure - Positive Pressure Demand Type Air Respirators

↳ what is this? How will the Supv. or Insul know when?

5.7 Wetting of asbestos containing material will be done in such a manner as not to wash the fibers into the ground, drainage trenches or sewer facilities. Any fibers contacting the ground will be gathered up and disposed of in approved containers.

5.8 Special wetting agents for asbestos containing material are available in the Sistersville Plant Store Room. This material is designed to bind the asbestos fibers and reduce or eliminate the potential of dust generation. This wetting material will be used where practical.

5.9 A special Vacuum Cleaner is available, with a special filter designed for 99.97% efficiency. This vacuum cleaner will be used where wetting is not appropriate such as brake lining work, work inside of structures, etc. and for removal of any fugative particles contacting clothing.

5.10 Protective clothing designed for the handling of asbestos containing material will be used on all jobs involving the handling or removal of material containing asbestos.

- Protective Clothing will be worn prior to contact with asbestos containing material.

Plastic will be placed over all ground areas affected to prevent asbestos fibers from contaminating clean areas.

5.0 PROCEDURE (CONT.)

5.10 - Protective Clothing will be removed at the work site and placed in approved containers.

- Protective Clothing will be removed prior to coming in contact with other personnel, eating, smoking or using facilities used by other personnel. Clothing will be placed in approved containers.

- New Protective Clothing will be worn for each job or continuation of the job if the previously used Protective Clothing was removed.

5.11 Asbestos containing material will be collected in sealed impermeable bags, or containers and sent to an approved landfill. This includes used disposable protective clothing.

5.12 Contaminated clothing will be collected and transported in sealed impermeable bags or closed containers, properly labelled as "Asbestos Contaminated Clothing". This clothing will be sent to a commercial laundry which has facilities for handling asbestos contaminated clothing.

5.13 Disposal Containers shall read:

- Caution -
Contains Asbestos Fibers
Avoid Breathing Dust
Breathing Asbestos Dust
May Cause Serious Bodily Harm

5.14 Proper Housekeeping is the responsibility of each individual in performance of the work assignment. Appropriate equipment for prevention of dust release and clean-up after the job, has been provided. Please use this equipment but never use a broom, brush or blow with air when handling materials containing asbestos.

5.15 When an employee has clothing contaminated or suspected to be contaminated with asbestos, the employee will:

- Enter the "dirty room" facility provided for insulators and remove clothing.

- Contaminated clothing will be placed in sealed containers and sent to laundry.

- The employee will next enter the "clean room" facility and put on clean/uncontaminated clothing.

- Adequate protective clothing has been provided to reduce the potential contamination of normal work clothing.