

MAINTENANCE STANDARD PROCEDURE

SP- 38

MONSANTO COMPANY

From Don Anell's files

CHOCOLATE BAYOU PLANT

Maintenance Asbestos Material Handling and Disposal Procedure

PURPOSE

The purpose of this procedure is to define activities necessary to specifically cover the removal and disposal of material containing asbestos.

POLICY

It is the policy to provide a safe and healthful workplace for our employees, and to ensure compliance with regulatory requirements. To support this policy, we will ensure that appropriate safety procedures and health considerations are incorporated into this procedure for the identification, removal, and disposal of asbestos materials including insulation, gasketing, and packing.

RESPONSIBILITIES

A. Maintenance

1. Identify the type of insulation to be removed, using Industrial Hygiene as a resource, as either asbestos or non-asbestos.
2. Instruct personnel to the hazards of asbestos and the proper work practices associated with asbestos handling and disposal procedures.
3. Inform Industrial Hygiene Department of the location, type and magnitude of job to be performed.
4. Ensure that the established work practices are followed.
5. Adhere to all appropriate OSHA and EPA rules and regulations.

B. Industrial Hygiene

1. Monitoring of Monsanto personnel potentially exposed to asbestos.
2. Area samples as needed.

C. Environmental Affairs and Technology (EA&T)

1. Notification of major asbestos work to EPA/Texas Air Control Board (TACB).

D. Purchasing

1. Assure contracts comply with corporate agreements regarding asbestos removal and disposal.

PROCEDURE

Protective Equipment for Asbestos Removal

1. Disposable coveralls, with hoods or hairnets, are required for the removal of asbestos insulation. Typical for a coverall acceptable for use is:

- White Knight 1412 (S - MCC 990100, M - MCC 990101, L - 990102)

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2. Respirators must be worn while handling asbestos materials using either:
 - MSA Type S or Type F (asbestos) (MCC - 990025, MCC - 990029)
 - Survivair Dust and Vapor Type (asbestos) (MCC - 990065)
 - 3M Disposable Filter (asbestos)
3. Approved gloves and boots, either rubber or disposable, are required for asbestos removal.
4. Other required Monsanto Safety Equipment.

Removal of Asbestos

1. While removing the protective jacket or coating, it will be necessary to exercise caution to avoid the emission of airborne fibers. Respirators shall be worn during this step of removal.
2. If the insulation has been identified as asbestos, then the proper protective equipment, as described above, must be worn.
3. If the insulation has been identified as asbestos, wet the insulation completely prior to removal to prevent the emission of airborne fibers. Insure that the protective jacket is not removed for work other than where removal can be done as soon as practical.
4. Wet or cover unprotected ends of the asbestos insulation while the job is in progress. All open ends should be covered if job is to be completed next day. Replacement of the insulation should be completed as soon as practical with non-asbestos insulation.
5. Red "Do Not Enter" barricade tape should be used to seal off the area where work will be performed to prevent entry. Approved OSHA signs should be attached to tape so that they are visible from all points of access. Signs should be washed before returning to storage and tape should be disposed of with asbestos.
6. Protective clothing and equipment MUST be worn by ANYONE inside barricaded area at all times. NO EXCEPTIONS.
7. The asbestos within the barricade should be kept wet at all times.
8. Disposable ground cover should be used over gravel areas or other locations where cleanup of fibers is impossible.
9. Nondisposable rubber boots and respirators, after filter removal, are to be collected and thoroughly washed.
10. Bag and seal the insulation in plastic bags marked "Asbestos Only" (MC 071366). Bags must be removed from the work area as soon as each is filled, and deposited in the dumpster designated for asbestos.

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11. The disposal of asbestos containing material will be coordinated through the Environmental Control Department.
12. Other asbestos containing material, gasketing, and packing will be treated as the above steps require.
13. Wire wheel buffers will "NEVER" be used to remove asbestos gasketing.

Disposal

1. Monsanto EA&T, or Contractors performing the work, will be required to notify the Texas Air Control Board before disposing any asbestos material or before any demolition can be started. Twenty (20) days advance written notice must be given. Monsanto must verify notification to TACB prior to work start. A copy of the notification must be filed with the location EA&T Department.
2. Monsanto EA&T will notify the appropriate authorities as to the estimated cubic yards of asbestos that will be generated during scheduled renovation (repairs or revisions) operations for the next twelve months beginning July 1. This notification needs to be made each year.
3. It shall be the responsibility of the Monsanto representatives to identify the type of insulation to be removed before a contract is awarded.
4. It will be the responsibility of the Contractor to dispose of asbestos insulation. Disposal will normally be at an off-site facility. Off-site facilities must be a site approved by Monsanto.
5. Work Contractor will be responsible, under contract for compliance with all governing OSHA and EPA regulations. Removal will be monitored by Monsanto's Industrial Hygiene and Maintenance Departments for compliance verification.
6. All protective equipment will normally be supplied by the Contractor.

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