



ASBESTOS MANAGEMENT PLAN

I. Purpose

- a. The purpose of this Asbestos Management Plan (AMP) is to provide guidance for the proper management of asbestos-containing materials (ACM) on campus. This AMP describes how TTU complies with state and federal requirements for asbestos management, and where appropriate, describes the Best Management Practices (BMPs) that TTU employs to ensure compliance with the rules.

II. Applicability

- a. This shall apply to anyone on campus who is potentially exposed to asbestos.

III. Scope

- a. This standard applies to worker health protection (TOSHA) and compliance with EPA regulations.

IV. Abbreviations, Acronyms, and Definitions

a. Abbreviations/Acronyms

- ACM- Asbestos-containing materials
- ACBM- Asbestos containing building materials
- AHERA- Asbestos Hazardous Emergency Response Act
- BMP- Best Management Practices
- EHS – Environmental Health and Safety
- EPA – Environmental Protection Agency
- NESHAP – National Emission Standard for Hazardous Air Pollutants
- TOSHA – Tennessee Occupational Safety and Health Administration (or Act depending on context)
- PACM –Presumed asbestos-containing material
- TSCA – Toxic Substances Control Act

b. Definitions

- Abatement- the removal, repair or encapsulation of ACM or debris/dust contaminated with asbestos.
- Friable ACM – materials that contain asbestos fibers and can be crushed by hand pressure.
- Nonfriable ACM- material that, when dry, may not be crumbled, pulverized or reduced to powder by hand pressure.

V. Roles and Responsibilities

- a. Employees who are likely to come in contact with ACM or PACM:
 - i. Follow prescribed guidelines.

- ii. Report any problems to their supervisor
- b. Department Heads who have employees who may come in contact with ACM or ACBM:
 - i. Ensure these individuals receive the necessary training.
 - ii. Consult EHS or Facilities Services at 372-3227 when questions arise.
 - iii. Ensure employees follow prescribed procedures.
 - iv. Report problems to EHS or Facilities Services.
- c. Environmental Health and Safety
 - i. Identify locations and materials likely to contain asbestos.
 - ii. Identify departments who have personnel who are likely to be exposed to PACM or ACBM and communicate to these departments the asbestos program requirements.
 - iii. Provide training upon request for asbestos awareness, or further courses as needed.
 - iv. Serve as the point of contact for asbestos issues in facilities that fall outside the domain of Facilities Services.
 - v. Conduct visual inspections of PACM during routine building inspections. Example –9"x9" floor tiles, old pipe lagging).
 - vi. Investigate complaints and concerns relative to PACM and ACM in all university facilities when needed.
 - vii. Notify the Facilities Services when problems are encountered.
 - viii. Collect and have samples analyzed for PACM.
 - ix. Provide results of sampling to Facilities Services for inclusion in their database.
 - x. Maintain records as necessary.
 - xi. Provide consultation on asbestos-related issues that arise on campus.
 - xii. Develop operation and maintenance plans related to asbestos as necessary.
 - xiii. Have at least one individual on staff that is a certified asbestos inspector.
 - xiv. Support ancillary standards related to asbestos such as respiratory protection, personal protective equipment, heat stress, confined space entry, etc.
- d. Facilities Services
 - i. Maintain records as necessary, including the database of sampling and results.
 - ii. Collect and have samples analyzed for ACM.
 - iii. Have at least one individual on staff that is certified as an asbestos supervisor.
 - iv. Notify building occupants of impending asbestos abatement work. Notification will be modified in the event of an emergency (e.g. water leak disturbing ACM or PACM).
 - v. Serve as the contract manager and abatement supervisor for the University's asbestos contractor for projects that fall under Facilities Services.
 - 1. Facilities Services shall ensure:

- a. Buildings and structures scheduled for capital renovation are checked for ACM and abated by a certified asbestos contractor before it can be disturbed.
- b. Only certified asbestos contractors manage ACM.
- c. Complaints during capital projects are adequately addressed.
- d. Records are maintained as necessary related to asbestos in capital projects.

VI. Procedure

- a. Inspections
 - i. When suspect material is encountered, it shall be treated as PACM.
 - ii. Sampling by certified asbestos inspectors is necessary to confirm the presence of ACM.
 - iii. If the PACM is damaged and exposure is likely, the area shall be secured, signs posted and other efforts made to prevent accidental exposure.
- b. Complaints
 - i. EHS in cooperation with Facilities Services shall investigate complaints involving asbestos.
 - ii. Steps "i-iii" for inspections shall be followed.
 - iii. EHS in cooperation with Facilities Services shall communicate the findings to the complainant.
 - iv. Any asbestos complaint to EHS involving Facilities Services personnel or contractor shall include an asbestos inspection immediately.
- c. Planned Abatement
 - i. Facilities Services shall notify the building coordinator of the building where abatement will occur at least 24 hours before the start of work and shall post appropriate signage.
 - ii. Notification will be made by posting signs at the entrances to the area where work will occur, contacting the building coordinator and requesting the information be conveyed to occupants.
 - iii. The contractor shall follow all TOSHA and EPA standards regarding asbestos abatement.
- d. Disposal
 - i. Asbestos is considered a special waste in Tennessee and as such a permit is required by the Tennessee Department of Environment and Conservation, Division of Solid Waste.
 - ii. Contractors licensed to manage asbestos shall be responsible for obtaining, maintaining and following the requirements related to their permit.
 - iii. Asbestos abated by Facilities Services may be managed through the University's hazardous waste program.

VII. Recordkeeping

The following records shall be kept

Sampling – Bulk – minimum three years

Sampling air (personal and area) – forever

Sampling clearance – minimum three years

Employee complaints - minimum three years
Building inspections – minimum 10 years
Training records – minimum three years

VIII. Training and Information Requirements

- a. Awareness - General awareness training shall be provided to all employees who are likely to disturb ACM and BMPs in housekeeping. Training may be obtained from EHS or other means.
- b. Inspectors, Supervisors and Project Managers - Facilities Services and EHS shall have employees who are trained as asbestos inspectors, workers, and supervisors.
- c. Building Occupants – Building occupants shall be notified of asbestos abatement activities in advance by signs, e-mail, and contacting the building coordinators.
- d. Contractors – Contractors performing renovation, maintenance, repair, and similar activities shall be notified before work commences.

IX. Associated Standards

OSHA General Industry Standard 29 CFR 1910.1001
OSHA Construction Standard 29 CFR 1926.1101
EPA 40 CFR 763 (TSCA/AHERA)
EPA 40 CFR 61 part M (NESHAP)
TDEC Rule 1200-01-20 Asbestos Accreditation Requirements
TDEC Rule 1200-03-11 Hazardous Air Contaminates