

CSU HOUSING & DINING SERVICES TECHNICAL STANDARDS
DIVISION 02 – EXISTING CONDITIONS

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02 26 00 – HAZARDOUS MATERIAL ASSESSMENT

- A. All areas of Colorado State University shall be assessed for environmental hazards before any demolition, alteration, renovation, or construction. Hazardous items may include, but are not limited to: asbestos, lead-based paint and chemicals. Biological and radiation hazards may exist, primarily in laboratories and research-oriented facilities. The University Project Manager/Representative shall contact appropriate University or contracted resources for hazardous material assessment during project planning.

02 82 00 - ASBESTOS REMEDIATION

A. Presence on Campus:

1. Asbestos is present in many materials in and around the campus. Typical forms include TSI (thermal / mechanical system insulation), Asbestos Containing Materials (ACM) such as ceiling tile, floor tile, Transite panels and asbestos-containing trowel-on and spray applied surfacing materials (fireproofing, textures, joint compound, coatings, acoustics etc). The University has inventoried asbestos materials in many buildings, but has not identified every area that might have TSI, ACM or asbestos-containing finishes. Asbestos may be hidden and not visible.
2. The University Project Manager/Representative will request, arrange and coordinate investigation of every project area where work occurs to identify any asbestos containing or suspect materials. Environmental Health Services or other qualified contracted professionals may assist with the investigation and perform any necessary sampling or laboratory tests on these materials. EHS will enforce compliance and may recommend remedial plans and actions.
3. The cost of investigations, tests and asbestos management shall be included in the cost of the project.

B. Abatement Contractors

1. Asbestos abatement contractors must meet qualifications set forth by this standard, CSU Environmental Health Services and Facilities Management.
2. Asbestos abatement contractors shall have insurance and bonds provided by companies that are listed in the United States Treasury Circular 750. After award of a contract, the successful bidder shall be required to submit necessary bonds and proof of insurance and the providers shall be checked for listing in above Circular.
3. Asbestos abatement contractors shall submit qualification certificates for all workers and supervisors to the University Project Manager/Representative prior to commencement of construction activity.

C. Asbestos Remediation:

1. The University is actively abating asbestos materials where health hazards exist and funding is available.
2. The cost of abating asbestos materials shall be included in the cost of projects in areas where removal has not been planned or scheduled. This includes any area where the asbestos is safely imbedded in the material and not a health hazard except for factors associated with demolition or other disturbances.

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3. The University maintains standing contracts with selected abatement companies. Additionally, Environmental Health Services has certified personnel equipped to monitor and advise project managers, designers and contractors. These services may be available for projects of certain size, cost, duration and environment. For other projects, it may be necessary to engage outside consultants and contractors for these services. All such consultants and contractors must be pre-qualified by CSU Environmental Health Services and Facilities Management. Consult with the University Project Manager/Representative as appropriate.
4. Contractors and other professionals shall comply with the University Policies and Protocols regarding disturbance or removal of known or suspected Asbestos Containing Materials (ACM).
5. Prior to working with, disturbing, or removing any ACM's, the Contractor must notify the University Project Manager/Representative who will then contact the CSU Department of Environmental Health Services University Asbestos Coordinator for assistance with asbestos determinations as necessary or required. Project participants must providing advance notice of any remediation and adhere to a mutually established schedule for all abatement work.
6. Project Technical Specifications shall require contractors to stop work immediately and notify the University Project Manager/Representative promptly when asbestos is encountered or suspected. It is the responsibility of the University Project Manager/Representative to decide what type of action will follow.
7. When unexpected ACM's are discovered or encountered, all work shall cease until the ACM is properly identified and a plan for removal by licensed and certified professionals has been reviewed and accepted by the University Project Manager/Representative. Noncertified personnel may re-enter work area and resume project work only after certified technicians have provided written verification and test results indicating that the ACM is abated and the area is safe for work.
8. Any time asbestos is disturbed, impacted, or abated (removed, repaired, enclosed, the project specifications and the Contractor's Quality Control Manager shall require conformance to all applicable Federal, State, Local, and University laws, rules and regulations for the removal or control of asbestos. These include but are not limited to:
 - a. U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP); Asbestos: 40CFR (Code of Federal Regulations, Part 61).
 - b. Occupational Safety and Health Administration (OSHA) Asbestos standards: 40 CFR Part 29, Section 1910.10001 (General Industry) and 1926.58 (Construction).
 - c. U.S. EPA, "Guidance for Controlling Asbestos-Containing Materials in Buildings"
 - d. ANSI Practices for Respiratory Protection (ANSI Z88-2-1969) and OSHA Personal Protection Equipment Standard: 29 CFR 1910 Spt. 1
 - e. U.S. Department of Transportation: 49 CFR 171 and 172.
 - f. Colorado Department of Public Health and Environment (CDPHE) Regulation 8 and its appendices
 - g. Colorado State University Environmental Health Services guidelines, recommendations and protocols
9. Contractors, subcontractors, and other professionals performing any asbestos work are

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required to meet the following minimum requirements:

- a. Any proposed asbestos abatement companies or professionals must meet the University's qualification requirements prior to initiating any activities that impact or disturb ACM. Any contractor awarded abatement project(s) must submit an asbestos abatement design (if applicable) to necessary agencies and have it approved prior to commencement of work.
- b. Asbestos abatement contractors or subcontractors shall submit all worker and supervisor certificates to University Project Manager/Representative who will distribute one copy to project file and subsequent copy to Environmental Health Service's University Asbestos Coordinator. Abatement contractors shall submit any other official documentation or manifests produced by the project to the University Project Manager/Representative so they subsequently can distribute to Environmental Health Service or other agencies accordingly.
- c. The contractor must provide a detailed written scope outlining procedures and methods to be applied.
- d. Project record must demonstrate any asbestos contamination or presence levels prior to, during and after projects where asbestos is remediated. Records must exhibit monitoring of air and personnel as applicable. All air monitoring and project clearances will be performed by qualified third party consultants/ specialists.
- e. Regardless of building occupancy, all asbestos projects must be clearly identified, and egress routes will be maintained.

D. Asbestos Containing Materials – Construction

1. It is strictly prohibited to specify or install any asbestos containing materials during renovation, remodeling, alteration, addition, or new construction. It is the responsibility of the Architect to assure specified materials are certified to be free of asbestos. It is the responsibility of the Contractor to submit verification that each suspect building product is free of asbestos. Suspect products include but are not limited to the following:
 - a. Surfacing materials such as trowel or spray applied textures, plasters, coatings, fireproofing, adhesives, joint-fillers and compounds etc.
 - b. Thermal insulation for mechanical systems, equipment, boilers, breeching, boiler rope, duct or tank insulation, cement or mortar used for boilers, fitting insulation including but not limited to wrapped paper, Aircell, Millboard, rope, cork, preformed plaster, in situ molded plaster and coverings over fibrous glass insulation, vibration isolators, etc.
 - c. Miscellaneous materials including wall and ceiling panels such as drywall or gypsum and other hard finishes, cove base, ceiling tiles, vermiculite insulations, laboratory surfaces and fume hood components.
 - d. Roofing materials and its underlayment including insulation board, vapor barriers, coatings, felts, flashing, shingles, Transite, Galbestos non-metallic or non-wood roof decking.
 - e. Plumbing and irrigation components such as include seals, gaskets and sealants.
2. The CSU Non-Asbestos Product Verification Form shall be signed and submitted to the University Project Manager/Representative for each suspect material. This document will be placed in project file and sent for record to University Asbestos Coordinator at Environmental Health Services. Contractor shall attach documented evidence that products or equipment to

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be used are non-asbestos containing, asbestos-free, do not contain asbestos, or similar designation. Such evidence may be a record of manufacture's label on the product itself, accompanying product information or, in the absence of such documentation, written results of laboratory tests of the suspect material. The Contractor shall be responsible for the cost of tests made necessary by the absence of acceptable manufacturer documentation.

3. The Owner may perform sampling to verify all suspect material/ equipment is asbestos-free. If any material or equipment is found to contain asbestos, the Contractor shall pay for the lawful and proper removal and disposal of the product, and shall install acceptable asbestos-free material / equipment at its sole expense.

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COLORADO STATE UNIVERSITY NON-ASBESTOS PRODUCT VERIFICATION FORM

Manufacturer's name and description of product to be used:

Product verified as stipulated above to be non-asbestos containing? Yes _____ No _____

Project, building and/ or room number(s) where material will be utilized or applied:

Signatures and dates are required:

Contractor Company:

Print company name

Print company address

Print name

Authorized signature

Date

Owner or Owner Representative:

Print name

Authorized signature

Date

*Please keep a completed copy of this in the department's project files and email or fax a copy to:

Eric March
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