

01302 Contractor Safety Notifications

Part 1: General

- 1.01 The designer should insure that the following items are included in their specifications in order to officially notify all contractors in regards to health and safety.

Part 2: Design Guideline - OSHA Compliance

- 2.01 Intent - It is the intent of the university that all projects be designed in such a manner that they can be constructed and built in utilizing work practices in accordance with OSHA regulations. The designer must require that all contractors and subcontractors meet all requirements specified in 29 CFR 1910 and 1926, along with the Association of General Contractors *Accident Prevention Manual*.
- 2.02 Resources - Designers are referred to resources including, but not limited to, OSHA standards 1910 and 1926, and the Association of General Contractors *Accident Prevention Manual*. Also, each project will have a designated safety manager.
- 2.03 Documentation--The designer must require contractors to designate, in writing, a safety manager for each project.
- 2.04 Design Criteria-Designers must take into consideration the following in their specifications:
It is the contractor's responsibility to:
- Provide a safe and healthful workplace free from recognized hazards to minimize the likelihood of accident or injury to all personnel.
 - Comply with OSHA standards 1910 and 1926, and any other applicable environmental health and safety regulations.
 - Comply with the requirements of the Association of General Contractors *Accident Prevention Manual*.
 - Provide adequate work-area protection to protect the safety and well being of faculty, staff, students, and visitors.
 - Maintain an accurate list of chemicals used during construction, which must be made available to campus or other requesting personnel.
 - Establish and maintain an effective safety and health program involving all levels of the contracting organization, including managers, supervisors, and employees. A person designated as being responsible for safety must be present on site at all times work is in progress.
 - Assure that a "competent person" as defined by OSHA is present during all projects that involve trenching or use of scaffolding.
 - Assure that applicable training is provided for other especially hazardous operations such as confined space entry.

Part 3: Design Guideline - Asbestos Statement

- 3.01 Intent - Various buildings and structures at NC State contain (or may be presumed to contain) asbestos-containing building materials. This section is intended to provide guidance to designers on abatement requirements.
- 3.02 Resources - Designers are expected to consult the NC State Asbestos Database to search for asbestos-containing materials in the affected work area. Copies of this database are available in the Facilities Planning and Design office.
- 3.03 Design Criteria
- 3.03.1 Design Procedures - During the initial project design stage, a designer should check the NC State asbestos database for the presence of asbestos in the affected work area. The designer shall determine whether the existing information needs to be supplemented by additional testing. If additional testing is conducted a copy of the report shall be sent to the Environmental Health & Safety Center (EHSC).
- 3.03.2 Once the presence of asbestos has been determined, a project estimate and/or bid proposal can be prepared. Depending on the presence, condition, and planned disturbance of asbestos in the work area, various actions will be necessary:
- ❑ Where asbestos is present in the work area, is in good condition, and will not be disturbed through the course of the project, the contractor must be informed of its presence by a statement in the bid document.
 - ❑ Where asbestos is present and will be directly disturbed through the project, the material will be removed prior to work by an accredited asbestos contractor.
 - ❑ Where asbestos is present, will not be directly disturbed through the project, but is in such poor condition as to pose a potential exposure to the contractor, the material must be removed prior to work by an accredited asbestos contractor.
- 3.04 Accredited Designer - An accredited asbestos abatement design shall be prepared for each individually permitted removal of more than 3,000 square feet, 1,500 linear feet, or 656 cubic feet of regulated asbestos containing materials in public areas. In such cases, the abatement designer shall be accredited by the NC DHHS, Health Hazards Control Unit to perform asbestos abatement design.
- 3.05 Bid Document Requirements - All “Notice to Bidders” documents must contain the following wording, regardless of the database or test results obtained and conditions noted above:
- “Various buildings and structures at NC State contain (or may be presumed to contain), asbestos building materials. If asbestos-containing materials are known to be present in, or adjacent to your work area, you will be informed by the NC State project coordinator. Should the completion of this project require disturbance of these asbestos-containing building materials, this work will only be performed by qualified persons with NC State Construction Management approval. It is your responsibility to inform your employees and subcontractors you supervise of this information, once received.”

All “Contractor Responsibilities” documents must contain the following wording:

“NC State will use reasonable efforts to notify contractor of known or suspected asbestos-containing materials located in or adjacent to the work area. Notwithstanding the foregoing, contractor has the affirmative duty of contacting appropriate university officials to investigate whether or not the materials located in or adjacent to the work area are known or suspected asbestos containing materials. In addition, the contractor shall notify the NC State Project Coordinator immediately upon encountering any other suspected asbestos product. Any removal must be coordinated through Construction Management by approved contractors. North Carolina State University is not responsible for compensation due to delays for asbestos removal.”

3.06 Project Administration Requirements - Prior to removal, regardless of quantity, the designer must make arrangements to assure the following along with other project administration requirements:

- ❑ An accredited asbestos abatement contractor is selected from a list of University approved contractors.
- ❑ Notification to Environmental Health and Safety Center (Environmental Health and Safety) via the NC State Project Coordinator that an asbestos removal project will occur
- ❑ An Industrial Hygiene firm with an accredited Supervising Air Monitor is selected to monitor the project where required for projects that exceed the threshold quantities and for smaller projects as indicated by NC State.

Once asbestos removal work and associated air sampling is completed, and the work area has been determined appropriate for re-occupancy, information on the material removed must be forwarded to Facilities Planning and Design for update of the asbestos database.

Documentation of the asbestos removal project will be maintained with the project file. All costs for asbestos removal, including the cost for asbestos bulk and air sampling, are to be charged as part of the cost of the project. A copy of air sampling results associated with the asbestos project shall be forwarded to the Environmental Health and Safety Center.

Part 4: Design Guideline-Lead Statement

4.01 Intent -Various buildings and structures at NC State contain (or may be presumed to contain), lead-containing paint. This section is intended to provide guidance to designers for work procedures to be used when materials which may contain lead will be disturbed.

4.02 Resources - Designers are expected to convey to contractors their responsibility for compliance with 29 CFR 1926.62. This section of the OSHA regulations contains, along with other regulatory requirements, assumptions and actions which must be taken by the contractor when lead containing coatings or other materials will be disturbed. The contractor is responsible for assuring sufficient information is available on the lead content of materials they will disturb or have other pertinent information, to determine the appropriate measures to be taken to comply with this regulation.

4.02.1 In some cases NC State has information on lead content of painted surfaces. As this information may be minimal or may not be applicable to compliance with OSHA regulations,

the designer should make the initial assumption that lead survey information may be needed for operations where painted surfaces are disturbed and include such assumptions into cost estimates.

- 4.03 Bid Document Requirements - Where painted surfaces are to be disturbed, the following information must be submitted with the bid documents:

Contractor Advisory: Lead Containing Materials -“It is anticipated that this job will involve disturbance of building materials with generation of airborne dust or fume. NC State University may not have sufficient information to verify the presence or absence of lead in all of the materials which may be disturbed by the contractor on this project. If testing has been conducted to determine the presence of lead the results are attached. Additional testing may be necessary.

The contractor is advised to assume potential lead exposure according to 29 CFR 1926.62 “Lead in Construction” and to determine appropriate actions to take, including but not limited to consideration of the training, work clothing, respirators, hygiene, and medical surveillance sections of the referenced standard.

Particularly for interior renovations, the contractor will be expected to use work methods which contain dust levels within the work area and to assure that surfaces are free of dust when work is completed. The contractor will use appropriate measures to assure dust levels remain below the OSHA permissible airborne limit of 0.05 mg/m³ of lead outside the work area at all times.

The successful bidder will be expected to provide, in writing, prior to the start of work on this contract, the steps which will be taken to control dust levels during this project. Activities judged by the NC State project coordinator to have the potential to generate high dust or fume levels (e.g. welding or burning over painted structures, abrasive blasting, power tool cleaning, demolition work, etc.) will be performed after review and consent of the NC State project coordinator.

The following activities are not permitted at NC State:

- a. Heat gun use for paint removal
- b. Use of lead-containing paints and mortar”

Part 5- Design Guidelines-Hazardous Waste Disposal

- 5.01 Intent-The project contractor is responsible for properly managing and disposing of any hazardous waste generated during the construction phase of a project in compliance with all applicable federal and state requirements. These guidelines apply to new construction, and the hazardous or special waste generated by the contractor during the construction process. For construction projects involving existing University buildings, refer to Construction Guidelines 01900 Decommissioning-Decontamination, which provides the procedure for managing hazardous or special waste associated with the University.
- 5.02 Documentation- The project contractor is required to generate and maintain any disposal records required by EPA or State of North Carolina regulations. The contractor will prepare waste for shipment in compliance with appropriate DOT shipping requirements. The contractor will maintain records of all hazardous/special waste shipped from the job site and will provide a copy of those records to the University Construction Manager.