

# **APPENDIX K - SECTION 13300 - IMPACTING, REMOVAL, AND DISPOSAL OF LEAD-CONTAINING MATERIALS**

## **PART 1 - GENERAL**

### **1. Description of Work**

1.1. This section covers the handling, waste disposal and training requirements of working with materials that contain lead.

1.2. The scope of work generally includes impacting or removing lead-containing materials during renovation activities. This work does not include removing lead-containing paint from steel structures. Refer to Appendix K - Section 13305 - Removal of Lead Paint from Steel Structures for specific requirements.

1.3. Work shall be performed in accordance with applicable local, state and federal guidelines by or under the direction of the contractor providing work under other specification sections. The intent of work in this area is not to reduce or abate the hazards of lead as the Minnesota Department of Health defines as hazards.

1.4. OSHA Standard 29 CFR 1926.62 “Lead Exposure in Construction” shall be adhered prior to and following initial exposure assessments. The contractor shall be responsible for personnel sampling in compliance with the standard.

**2. Related Work Specified Elsewhere:** Refer to Appendix K - Section 13280 - Hazardous Materials Procedures.

**3. Submittals:** The contractor shall submit the following to the project architect:

- A. Evidence that all personnel have been trained in accordance with OSHA Standard 29 CFR 1926.62
- B. A copy of the plan that proves it complies with state, federal and university requirements for removing and disposing lead-containing materials during renovation or demolition activities. The plan shall include engineering controls, personal protective equipment, air-monitoring methods, signage, location of hand-washing facilities, work practices, waste handling and disposal, and any other pertinent information.
- C. Copies of OSHA compliance monitoring results or current objective data that indicates that such tasks do not cause exposures above the PEL
- D. Copies of Material Safety Data Sheets for products used when lead paint or lead-containing materials are impacted
- E. Copies of Toxicity Characteristic Leaching Procedure (TCLP) test results

F. Proof of disposal through copies of waste manifest records or other form of receipt

## **PART 2 - PRODUCTS**

There are no products specified.

## **PART 3 - EXECUTION**

### **1. Removal and Disposal**

#### 1.1. Procedures

##### 1.1.1. Impacting Lead Containing Materials during Interior Demolition

1.1.1.1. Establish necessary engineering controls to eliminate lead migration from work area.

1.1.1.2. Items to be removed shall be done so in a way that minimizes disturbance of the lead-containing material.

1.1.1.3. Visible dust or debris shall be vacuumed using a HEPA-filtered vacuum.

1.1.1.4. Necessary respiratory protection shall be used until an exposure assessment is done. The assessment must indicate that lead exposure for similar tasks are less than the PEL.

1.1.1.5. Other personal protective clothing such as disposable coveralls/aprons, gloves, shoes or shoe coverlets shall be used to prevent the worker from being contaminated.

1.1.1.6. Hand-washing stations as described in 29 CFR 1926.62 shall be provided for the workers who handle lead-containing materials.

1.1.1.7. During demolition, generated debris shall be transported to a locked dumpster or secured storage area via carts with a polyethylene sheeting cover on a daily basis. During the demolition of lead-containing material, the carts shall not be used for any purpose other than transporting the lead-containing material.

1.1.1.8. Carts used to transport waste shall have a polyethylene liner on the inside and shall be decontaminated via wet-wiping techniques or HEPA-vacuuming.

1.1.1.9. Following demolition, the work area shall be cleaned using a HEPA-filtered vacuum or wet-wiping techniques.

## 1.2. Waste Disposal

1.2.1. Waste shall be accumulated and stored in a secured area on a daily basis.

1.2.2. University personnel encourage recycling of paint chips without any chemical paint strippers or free liquids. However, the contractor may dispose of chips and other waste as outlined below:

1.2.2.1. Paint chips generated at a residential facility must be disposed of in a lined mixed municipal solid waste landfill. The contractor must conduct a Toxicity Characteristic Leaching Procedure (TCLP) test for paint chips generated from chemical strippers or that contain free liquids, as well as for other waste. If the material passes the TCLP test, it shall be disposed of at an industrial solid waste landfill. If the material fails the TCLP test, it shall be disposed of at a hazardous waste facility.

1.2.2.2. The contractor must conduct a TCLP test for swept debris and loose paint chips generated at a non-residential facility. If the material passes the TCLP test, it shall be disposed of at an industrial solid waste landfill. If the material fails the TCLP test, it shall be disposed of at a hazardous waste facility.

1.2.3. Demolition debris that contains lead-based paint shall be disposed of at a permitted demolition debris landfill.

## 1.3. Training

1.3.1. Workers shall receive training (29 CFR 1926.62) that includes the following:

- A. Information about the potential adverse affects of lead exposure, medical surveillance and medical removal program
- B. Information about the early recognition of lead intoxication, in addition to the prohibited use of chelating agents
- C. Instruction about heeding signs around the boundaries of lead-contaminated work areas
- D. Discussion of the importance of personal hygiene practices in reducing lead exposure
- E. Instruction about the use and care of appropriate protective equipment, including protective clothing and respiratory protection

- F. Information about specific work practices and engineering controls for working safely with lead-containing materials
- G. Information on the OSHA Lead in Construction Standard 29 CFR 1926.62, and the employees' right to access 29 CFR 1910.20
- H. Contents of the compliance plan in effect

**End of Appendix K - Section 13300 - Impacting, Removal and Disposal of Lead Containing Materials**  
**University of Minnesota Facilities Management**  
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