

APPENDIX K - SECTION 13295 - STRUCTURAL DEMOLITION WHERE LEAD-CONTAINING MATERIALS ARE PRESENT

PART 1 - GENERAL

1. Description of Work

- 1.1. This section covers the required handling, waste disposal and training for lead-containing paint during demolition.
- 1.2. The scope of work generally includes complete demolition of existing structures that contain lead.
- 1.3. Work shall be performed in accordance with all applicable local, state and federal guideline by, or under the direction of the contractor providing work under other specification sections.
- 1.4. The intent of work does not pertain to reduction or abatement of hazardous lead as defined by the Minnesota Department of Health.
- 1.5. OSHA Standard 29 CFR 1926.62 “Lead Exposure in Construction” shall be adhered to prior and following initial exposure assessments. The contractor shall be responsible for all personnel sampling in compliance with the standard.

2. Related Work Specified Elsewhere: Appendix K – Section 13280 - Hazardous Materials Procedures.

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

- 3.1. Evidence that all personnel have been trained in accordance with OSHA Standard 29 CFR 1926.62.
- 3.2. A copy of the plan regarding compliance with state, federal and university requirements for removing and disposing lead-containing materials during structural demolition
- 3.3. Inclusion of 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 in the plan
- 3.4. Copies of results that indicate such tasks do not cause exposure above the PEL based upon monitoring for OSHA compliance or current objective data

3.5. Copies of Toxicity Characteristic Leaching Procedure (TCLP) test results of loose paint chips

3.6. Copies of waste manifest records or other forms of receipt that prove that the material has been disposed of properly.

PART 2 - PRODUCTS

There are no products specified.

PART 3 - EXECUTION

1. Removal and Disposal

1.1. Procedures

1.1.1. Paint Chip Decontamination: Any visible paint chips on the existing surfaces shall be collected using a HEPA vacuum prior to starting other work.

1.1.2. Paint Chip Removal When Loose Paint is Present

1.1.2.1. Clean work area of all visible paint debris using a HEPA vacuum or wet wiping techniques.

1.1.2.2. Place a sheet of 6-mil polyethylene beneath the work area prior to preparation.

1.1.2.3. Necessary respiratory protection shall be used until a lead exposure assessment can be provided that is similar for tasks less than the PEL.

1.1.2.4. Other personal protective clothing shall be used to prevent the worker from being contaminated, including disposable coveralls/apron, gloves, shoes and shoe coverlets.

1.1.2.5. Hand-washing stations as described in 26 CFR 1926.62 shall be provided for workers handling lead-containing materials.

1.1.2.6. Loose paint shall be removed by wet-scraping or wet-wire brushing.

1.1.2.7. All debris shall be gathered daily from the job site and placed in a locked dumpster or other secured area for disposal.

1.1.2.8. When work is finished, decontaminate any surfaces that contain debris with a HEPA-filtered vacuum or wet-wiping techniques.

1.2. Waste Disposal: The university would like to 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:

1.2.1. Paint chips from a residential facility must be disposed of in a lined mixed municipal solid waste landfill.

1.2.2. The contractor must conduct a Toxicity Characteristic Leaching Procedure (TCLP) test for paint chips that contain free liquids and 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.

1.2.3. The contractor must conduct a TCLP analysis for loose paint chips and those that have been swept at a non-residential facility. If the material passes the TCLP analysis, it shall be disposed of at an industrial solid waste landfill. If the material fails the TCLP analysis, it shall be disposed of at a hazardous waste facility.

1.2.4. Remaining structural debris with lead-based paint attached shall be disposed of at a permitted demolition debris landfill.

2. Training: All workers shall receive training (OSHA Standard 29, CFR 1926.21) that includes information about the following:

- A. The possible adverse affects of lead exposure
- B. How to recognize lead intoxication early on
- C. Comprehending and heeding signs about the boundaries of work areas that have been contaminated from lead
- D. The importance of practicing personal hygiene in reducing lead exposure
- E. Using and caring for appropriate protective equipment, including protective clothing and respiratory masks
- F. Working safely with lead-based paints
- G. OSHA Standard 29, CFR 1926.62 “Lead in Construction” and OSHA Standard 29, CFR 1910.20 employee right to access
- H. Contents of the compliance plan in effect

End of Appendix K - Section 13295 - Structural Demolition Where Lead-Containing Materials are Present
University of Minnesota Facilities Management
November 2002 (Revised: December 2006)