

SECTION 02090 – LEAD HANDLING PROCEDURES

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. This section includes precautions and procedures required for lead contaminant control and lead waste disposal during the life of the contract. It applies to handling and disposal of lead containing paint and adhesives. For the purposes of this project, lead base paint has been assumed to be present within the building.
- B. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.62 Lead in Construction, Interim final Rule dated May 4, 1993, states that workers must be protected through use of engineering controls, personal protective equipment, and/or personal exposure monitoring during each phase and task of the project.
- C. Demolition of the aforementioned painted surfaces will be performed primarily during Phase I Deconstruction Activities. During Phase I, dust containment barriers and specific engineering controls to minimize fugitive dust migration (and lead exposures) and personnel protective equipment shall be employed.
- D. Torch cutting and welding of coated metal components and steel will occur in the Preparation Phase and Phase II. Prior to performing these activities on coated metal components and steel, Contractor shall remove lead-containing paint. Per OSHA regulations, an exposure assessment must be conducted for torch cutting and welding operations. These operations must be performed in Level B personnel protective equipment (PPE) until a downgrade of PPE is warranted based on the results of the personnel exposure assessment.

1.2 SUBMITTALS:

- A. The following submittals must be approved by the Owner and/or Owner's Authorized Representative prior to beginning work:
 - 1. Names and qualifications (experience and training) of supervisor and personnel who will be working on-site.
 - 2. Evidence of current training in LBP abatement by an EPA or State accredited program, or equivalent. Provide proof of successful completion of LBP worker training, and documentation describing the training provider, subject matter, duration, and dates of the course.
 - 3. Name and qualifications of the analytical laboratory used to profile wastes.
 - 4. Names and qualifications of each subcontractor that will be transporting, storing, treating, recycling, and/or disposing of the wastes. For each facility provide the facility location, phone number, and a 24-hour point of contact as well as other LMDC and LMDC insurer requirements. Include copies of all environmental permits and certifications necessary to satisfy local, state and federal requirements.
 - 5. Name, address, and telephone number of landfill. Include all necessary permits and certificates.
 - 6. Detailed site specific work plan.

7. Methods and materials for lead-based paint abatement and/or the engineering controls to be used when disturbing lead-based paint surfaces (enclosures, dust control and collection mechanisms, etc.). A material safety data sheet and product cut-sheets shall be provided for all chemical removers proposed for use.
8. Work plan for waste containment, removal, and disposal. Wastes shall be cleaned up and containerized daily.

B. The following submittals are required to be submitted to the Owner and/or Owner's Authorized Representative at the completion of work:

1. All sample results.
2. Waste disposal receipts (manifests and Certificates of Destruction).

1.3 CODES AND REGULATIONS:

- A. The Contractor is responsible for ensuring compliance with all Legal Requirements including:
1. 29 CFR 1910.1025: US-DOL (OSHA) General Industry for Lead 29 CFR 1926.62: US-DOL (OSHA) Lead in Construction
 2. 29 CFR 1926: US-DOL (OSHA) Construction (all provisions)
 3. 40 CFR 260-299: US-EPA Resource Conservation and Recovery Act (RCRA)
 4. 40 CFR 300-399: US-EPA Comprehensive Environmental Response Compensation and Liability Act (CERCLA)
 5. 49 CFR 171-180: US-DOT Hazardous Materials Regulations

PART 2 - PRODUCTS

2.1 VACUUMS

- A. All vacuums used during paint and adhesive handling shall be equipped with HEPA filters conforming to ANSI Z9.2 1979.

2.2 RESPIRATORS AND PROTECTIVE CLOTHING

- A. At a minimum, workers shall wear disposable coveralls including shoe covering and respiratory protection appropriate for the hazard (i.e., clothing, gloves, and face shields per MSDS recommendations). The contractor shall place disposable coveralls with abatement waste on a daily basis. All workers shall be trained on the hazards of lead and good personal hygiene, such as no eating/drinking/smoking in the work area, and washing when leaving the work area.
- B. For torch cutting and welding operations Level B PPE shall be required until downgrade is approved based upon the results of the exposure assessment conducted in conformance with OSHA regulations.

PART 3 - EXECUTION

- A. Numerous trades workers and project personnel will be active at the site simultaneously during demolition (e.g., a multi-contractor work site as defined by US-DOL OSHA). Abatement and/or demolition activities must comply with submittal information and precautions must be taken to protect unaffected adjacent areas from exposure to lead-contaminated dust.
- B. Interior demolition of lead painted surfaces and other activities that generate lead dust shall be performed within an enclosure that is dust tight and is equipped with a HEPA exhaust. Refer to specification section 02076, "Lead Remediation".

3.1 WORK PROCEDURES

- A. A trained and licensed individual as described in paragraph 1.02 herein must conduct required remediation of the painted materials that have detectable levels of lead. In the event that flaking lead-based paint is observed on a particular surface to be handled (i.e., interior door to be removed), said surface shall be remediated in accordance with means and methods described in specification section 02076, "Lead Remediation".
- B. Coordinate work of all trades to ensure that their work is performed in accordance with applicable regulations and to ensure that the integrity or isolation of the regulated lead removal (control) area is maintained.

3.2 CLEANUP AND DISPOSAL

- A. Housekeeping: Surfaces in the LBP control area shall be maintained free of accumulations of paint chips and dust. Spread of dust and debris shall be restricted. Dry sweeping or compressed air shall not be used for cleanup.
- B. At the end of each work period, HEPA vacuum and collect all debris to maintain surfaces free of paint chips and dust accumulation. Seal lead debris in airtight containers and remove from work site.
- C. Final cleaning/approval: HEPA vacuum and damp clean area with an anionic solution.. Area shall be visually clean of all debris and dust. If the Owner and/or Owner's Authorized Representative, i.e. Industrial Hygiene firm, finds the area unacceptable, the contractor, at his own cost, shall re-clean until acceptance is gained. Final inspections will be performed by the Owner and/or Owner's Authorized Representative.
- D. Handling and disposal of all waste and debris is to be in compliance with OSHA, EPA, DOT, state, and all other applicable regulations. The contractor is responsible for performing TCLP (toxic characteristic leaching procedure) sampling to determine if debris is to be handled and disposed of as hazardous waste.
- E. A copy of each manifest is to be provided to the Owner and designated facility contact at the time the shipment is made. Within 30 days of the time the Hazardous Waste Treatment Storage and Disposal Facility (TSDF) receives the waste a completed copy of the manifest is

to be provided to the Owner and facility contact. Certificates of Destruction or Disposal (CD) shall be provided to the same parties within 90 days of delivery of waste to the TSDF.

- F. For materials that are recycled, contractor shall provide an affidavit or notarized statement indicating the quantity of material, and it's recycling location by business entity name and address.

END OF SECTION 02090