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| MATERIAL HANDLING, STORAGE, AND DISPOSAL | Identifier: PRD-2016 |
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| Subcontractors | Program Requirements Document | For Additional Info: http://EDMS | Effective Date: 01/02/17 |
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Manual: Subcontractor Requirements

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1. PURPOSE

This document provides requirements for the safe handling, storage, and disposal of materials and requirements to protect workers from hazards and facilities from damage while performing these activities. This document implements requirements from codes and standards along with *contractor* (see def.) requirements. Any applicable regulatory or contractor requirements must be followed, with the most stringent requirement being met.

2. APPLICABILITY

This document applies to all subcontractors who handle, store, or dispose of materials at the Idaho Cleanup Project (ICP), as specified in their contract with contractor. Stricter requirements may be imposed by subcontractors upon their employees or subtier contractors. The requirements of this document must be followed by subcontractors; however, the means of implementation may vary as determined by the subcontractor.

3. REQUIREMENTS

3.1 Training

- 3.1.1 Training shall be provided to all persons engaged in manual lifting operations, as applicable for their job descriptions.
- 3.1.2 Training for hoisting and rigging operations shall comply with PRD-2007.
- 3.1.3 Training shall include the safe and proper manual and mechanical lifting techniques and procedures to be used, including the following procedures.
 - A. Training on how to use all available mechanical aids safely, properly, and in accordance with manufacturers' instructions, shall be initially completed before an employee uses the aids, and shall be repeated as needed to maintain proficiency.

3.2 General Safe Work Practices

- 3.2.1 Hoisting and rigging performed as part of material handling shall be performed in accordance with applicable requirements (see PRD-2007).
- 3.2.2 Work involving manual lifting or handling shall be evaluated for difficulty due to handling frequency, size, awkwardness, bulk, or weight to determine if mechanical lifting or a coworkers assistance is needed.

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3.2.3 Employees shall not lift, and shall not be allowed to lift, any material that the employee may not be physically capable of lifting because of a physical condition or other physical limitation.

3.2.4 Sharp projections in the workspace shall be eliminated or guarded.

3.3 Material Handling

3.3.1 The following requirements shall be used as applicable for the work being performed:

3.3.1.1 Fork trucks, platform lift trucks, motorized hand trucks, and other specialized industrial trucks powered by electric motors or internal combustion engines shall be used in accordance with 29 CFR 1910.178.

3.3.1.2 Subcontractors shall ensure that mechanical handling equipment is available and properly used by employees whenever feasible.

3.3.2 The following additional precautions shall be taken when lifting materials manually:

3.3.2.1 Use proper lifting techniques such as:

- obtaining a firm footing by keeping feet shoulder-width apart for a stable base and ensuring footing is safe to prevent slipping
- bending knees (avoid bending at the waist)
- keeping the load close to the body

3.3.2.2 Ensure adequate workspace free from clutter and obstacles is available when moving materials.

3.3.2.3 Ensure that employees do not lift more than the recommended weight of 50 pounds or one-third their body weight, whichever is less.

3.3.2.4 Adequate workspace shall be available to allow proper positioning and movement without undue strain.

3.3.2.5 Loads shall be lifted smoothly by bending at the knees and using the leg muscles to lift, holding the load close to the body.

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3.3.2.6 Twisting and lifting simultaneously should be avoided when possible by moving your feet instead of twisting your back while lifting.

3.3.3 Safety precautions shall be observed when loading and unloading vehicles per requirements of 29 CFR 1910.178 and 29 CFR 1926.600.

3.4 Material Storage

3.4.1 Materials shall be stored in accordance with 29 CFR 1926.176, 29 CFR 1926.250, 29 CFR 1926.56, and 29 CFR 1926.151-152.

3.4.2 Employees shall not climb shelves, bins, pallets, or similar equipment.

3.4.3 Precautions shall be taken against unauthorized access, with pilferage, injury, fire, and property damage all being considered.

3.4.4 Items requiring protection from light and other forms of radiation shall be stored in a shielded location.

3.4.5 Protection against freezing shall be provided if freezing could damage the materials or containers.

3.4.6 Shelves shall comply with the following requirements:

3.4.6.1 Shelving shall be secured to the floor or securely fastened to prevent falling or tipping.

3.4.6.2 To prevent items from falling, shelves shall be lipped as deemed necessary.

3.4.6.3 Where personnel access to heavy, large, or awkward materials on shelves more than 5 feet off the floor is required, walkways, rolling safety ladders, non-slip step stools, or mechanical equipment shall be provided.

3.4.6.4 Shelving shall not be loaded beyond the manufactures' or designed weight load capacity.

3.4.7 Stacked items shall comply with the following requirements:

3.4.7.1 Stacked items and those on pallets shall be stored only as high as stability is ensured and required clearances shall be maintained from structural members and sprinklers. Normally, storage shall not exceed 12 feet in height, with some forms of plastic limited to a 6-foot storage height.

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3.4.7.2 All materials that are stacked or piled shall be stable, with no foreseeable risk of falling or toppling. Surfaces shall be reasonably level and free from risk to foot and vehicle travel.

3.4.8 Construction materials shall be stored in accordance with 29 CFR 1926.250.

3.5 Clearances

3.5.1 The safe clearances shall be maintained in accordance with 29 CFR 1926.151, NFPA 13 and NFPA 231

3.6 Disposal

3.6.1 Subcontractors shall contact the contractor *Point of Contact* (POC; see def.) for guidance on disposal of the following materials.

- A. reusable personal property
- B. recyclable materials
- C. sanitary waste
- D. hazardous waste
- E. low-level waste
- F. mixed low-level waste
- G. fluid with radioactive/hazardous contamination
- H. transuranic waste
- I. mixed transuranic waste
- J. high-level waste.

4. DEFINITIONS

See LST-27

5. REFERENCES**5.1 Source Documents**

29 CFR 1910.176, "Handling Materials, General"

29 CFR 1910.178, "Powered Industrial Trucks"

29 CFR 1910.179, "Overhead and Gantry Cranes"

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29 CFR 1910.180, “Crawler Locomotive and Truck Cranes”

29 CFR 1926.56, “Illumination”

29 CFR 1926.151, “Fire Prevention”

29 CFR 1926.152, “Flammable and Combustible Liquids”

29 CFR 1926.250, “General Requirements for Storage”

29 CFR 1926.600, “Equipment”

NFPA 13, “Standard for the Installation of Sprinkler Systems”

NFPA 30, “Flammable and Combustible Liquid Code”

NFPA 231, “General Storage”

NFPA 231C, “Rack Storage of Materials”

5.2 Related Requirements

The following documents may also contain requirements that apply to this activity:

PRD-2007, “Hoisting and Rigging”

PRD-2019, “Motor Vehicle Safety”

6. APPENDICES

None