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## 3-2 SHOP CRANES

### 3-2.1 Scope

This Hanford Site Hoisting and Rigging Manual (HSHRM) chapter applies to the construction, installation, operation, inspection, testing, maintenance, and the safe use of self-contained hydraulic and pneumatic-hydraulic shop cranes as prescribed by the American Society of Mechanical Engineers (ASME) standards and the Occupational Safety and Health Administration (OSHA) regulations. Shop cranes are characterized by a pair of laterally spaced legs, an upright mast, a pivoting boom with a boom extension and hook, and a hydraulic unit. This section implements required criteria from DOE/RL-92-36; OSHA [29 CFR 1926 Subpart CC, Cranes and Derricks in Construction](#) (see Chapter 3-7), and the ASME Portable Automotive Service Equipment (PASE) standard.

The following criteria and the applicable national standard and/or federal specification identify the mandatory requirements for each item.

- ASME PASE-Part 2 – *General Requirements*
  - Chapter 2-1, *Scope and Definitions*
  - Chapter 2-2, *Design*
  - Chapter 2-3, *Design Qualification Testing*
  - Chapter 2-4, *Product Marking and Identification*
  - Chapter 2-5, *Product Instructions and Safety Messages*
  - Chapter 2-6, *Quality Assurance*
  - Chapter 2-7, *Operation, Maintenance, and Inspection*
  - Chapter 2-8, *Related Standards*
  - Chapter 2-9, *Effective Date*
- ASME PASE Part 12 – *Shop Cranes*
  - Chapter 12.1, *Scope, Configuration, and Illustrations*
  - Chapter 12.2, *Design*
  - Chapter 12.3, *Safety Markings and Messages*
  - Chapter 12.4, *Design Qualification Testing*

### 3-2.2 Accessing Requirements

- a. To access ASME standards, choose one of the following options:
  - [IHS Engineering Standards, Regulations and Technical Specifications](#). The contractor must have paid for access to the specific standard.
  - Purchase standards directly from [ASME](#).

**3-2.3 Implementation**

Contractors shall comply with OSHA, ASME, this HSHRM, and manufacturers’ requirements. Users of this HSHRM are responsible to implement all applicable requirements. If standards conflict, the user shall adhere to the standard containing the most stringent requirements. In most cases, ASME standards provide the most comprehensive information.

Users should contact a Hanford Hoisting and Rigging Committee (HHRC) representative or send an [email](#) requesting a formal interpretation. See Chapter 1-10, *Interpretations*, for the process to be followed. Notify the HHRC if any inconsistent standards are identified.

This HSHRM does not intend to require retrofitting of existing equipment. However, when any hoisting or rigging equipment is modified, its performance requirements shall be reviewed relative to the requirements within the current HSHRM. The need to meet the current requirements shall be evaluated by a qualified person selected by the owner (user).

**3-2.4 Inconsistent Standards**

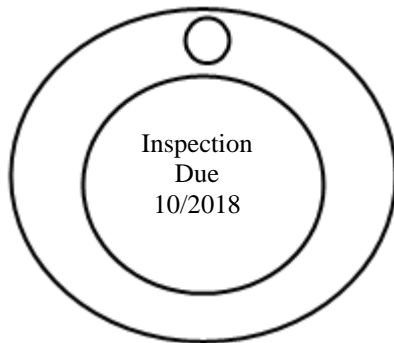
No inconsistencies between standards have currently been identified.

**3-2.5 Hanford Specific Requirements and Practices**

A periodic inspection tag (like the example shown below) is required in addition to the other identification requirements for each PASE.

Proof tests shall never be less than minimum requirements defined in ASME PASE. A tag indicating the date of load test may be affixed to the device for filed verification. See the examples below in Figures 1 and 2.

**Figure 1: Example of a Periodic Inspection Tag**



**Figure 2: Example of a Load Test Tag**

