

**CHAPTER 7.0 TABLE OF CONTENTS**

**TABLE OF CONTENTS ..... 1**  
**7.0 SHOP CRANES ..... 3**  
**7.1 SCOPE ..... 3**  
**7.2 GENERAL REQUIREMENTS ..... 3**  
**7.3 IMPLEMENTATION ..... 3**  
**7.4 INCONSISTENT STANDARDS ..... 4**  
**7.5 HANFORD SPECIFIC REQUIREMENTS AND PRACTICES ..... 4**

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## 7.0 SHOP CRANES

### 7.1 SCOPE

This section 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 and the following ASME Portable Automotive Lifting Devices-2005 (PALD) standard.

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

#### ASME PALD -- General Requirements

1. Product Marking and Identification
2. Product Instructions and Safety Messages
3. Operation, Maintenance and Inspection
4. Quality Assurance
5. Part 9 – Shop Cranes
  - 9.1 Scope, Classification, and Illustration
  - 9.2 Design
  - 9.3 Safety Markings and Messages
  - 9.4 Design Qualification Testing
  - 9.5 Attachment and Adapters

### 7.2 GENERAL REQUIREMENTS

Contractors shall access ASME via one of the following options:

1. IHS Engineering Standards, Regulations and Technical Specifications at <http://www.ihs.com/>. The contractor must have paid for access to the specific standard. For access contact The Hanford Technical Library, 277 University Dr, Richland, WA (372-7430). To print IHS file go to <http://www.ihs.com/>
2. To purchase directly from ASME go to <http://www.asme.org>

### 7.3 IMPLEMENTATION

Contractors shall be compliant to DOE/RL-92-36, OSHA, and the ASME PALD manufacturers' requirements. It is the responsibility of the user of this manual to implement all of the requirements. When two standards set forth inconsistent requirements, the user shall adhere to the standard containing the most stringent requirements. ASME standards provide the most comprehensive information. Users should contact a Hanford Hoisting Rigging Committee (HHRC) representative or send an email to ^Hanford Hoisting and Rigging for a formal interpretation. See Chapter 17.0 for process to be followed when requesting an interpretation. Notify the Hanford Site Hoisting and Rigging Committee if any inconsistent standards are identified.

It is not the intent of this manual 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 manual. The need to meet the current requirements shall be evaluated by a qualified person selected by the owner (user).

**7.4 INCONSISTENT STANDARDS**

No inconsistencies between standards have currently been identified.

**7.5 HANFORD SPECIFIC REQUIREMENTS AND PRACTICES**

Follow ASME PALD-2005 standards.