Chapter 41: Hoisting and Rigging

Quick Start Summary

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URL: https://www-group.slac.stanford.edu/esh/eshmanual/references/hoistingQuickstart.pdf

1 Who needs to know about these requirements

The requirements of Hoisting and Rigging apply to workers (as operators, riggers, signal persons, and designated leaders/persons-in-charge), supervisors, ESH coordinators, line management; equipment custodians, load owners, and qualified engineers; the hoisting and rigging inspector, crane and hoist inspector, and the hoisting and rigging program manager; and Purchasing, Facilities and Operations Crane Maintenance, and subcontractors.

2 Why

Improper design, use, or maintenance of hoisting and rigging equipment and accessories can cause equipment to fail or a load to drop, resulting in personnel injury, death, damage to the environment or significant property loss.

3 What do I need to know

All hoisting and rigging equipment, accessories, and activities must comply with Department of Energy Standard 1090, “Hoisting and Rigging” (DOE-STD-1090). All equipment is subject to purchase approval, a review of conformance, initial inspection, and registration before being placed in use, and pre-use and periodic inspections afterwards. Any equipment not in compliance must be removed from service.

Only qualified workers may operate, maintain, and inspect hoisting and rigging equipment. At least two persons must be present for any lift (unless the directorate ESH coordinator and supervisor approve for an ordinary lift; the hoisting and rigging program manager must be notified). A designated leader is required for ordinary lifts and a person-in-charge for critical lifts. Signal persons and professional riggers are required for lifts involving mobile cranes.

All lifts require a documented lift plan. For ordinary lifts these must be approved by someone with knowledge and experience in hoisting and rigging, either the supervisor, the supervisor’s designee, the ESH coordinator, or the hoisting and rigging program manager if requested. Plans for critical lifts must be approved by the hoisting and rigging program manager.

4 When

These requirements take effect 5 January 2023.

5 Where do I find more information

SLAC Environment, Safety, and Health Manual (SLAC-I-720-0A29Z-001)

- Chapter 41, “Hoisting and Rigging”

Or contact the program manager.