

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 4885 to read:

§ 4885. Definitions.

Accessory. A secondary part or assembly of parts which contribute the over-all function and usefulness of a machine.

Angle Indicator (Boom). An accessory which measures and indicates the angle of boom to the horizontal.

Anti Two-Block Device. A device which, when activated, disengages all crane functions that can cause two-blocking.

Switch. A device for making, breaking, or for changing the connections in an electric circuit.

Track. A structural member that supports the trolley or crane wheels.

Two-Block Damage Prevention Feature. A system which will stall when two-blocking occurs without causing damage to hoist rope or crane machinery components.

Two-Block Warning Feature. Warning device to alert the operator of an impending two-blocking condition.

Two-Blocking. A condition in which the lower load block or hook assembly comes into contact with the upper load block or boom point sheave assembly.

NOTE: Authority and reference cited: Section 142.3, Labor Code.

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PROPOSED STATE STANDARD,
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Amend Section 4924 to read as follows:

§4924. Load Safety Devices.

(a) All cranes having a maximum rated capacity exceeding one ton shall be equipped with safety devices as provided herein.

EXCEPTIONS:

1. Boom-type excavators used in excavation work and all equipment ~~used exclusively~~ when configured for pile driving or log handling.

2. Articulating boom cranes are exempt from the provisions of subsections (c) ~~and (d)~~.

(b) All mobile cranes including truck-mounted tower cranes, ~~except as provided above~~, having either a maximum rated boom length exceeding 200 feet or a maximum rated capacity exceeding 50 tons shall be equipped with a load indicating device or a load moment device, or a device that prevents an overload condition. Only approved devices as defined in the General Industry Safety Orders, Section 3206 shall be used.

(1) All other mobile cranes manufactured after September 27, 2005, with a maximum rated capacity exceeding 3 tons shall have a load indicating device, load moment device, or a device that prevents an overload condition.

Exception: When load indicating devices are not functional, a qualified person shall determine load weights until the device can be restored to operation.

(2) Load indicating devices shall be repaired in accordance with the manufacturer's recommendations.

~~(c) Each variable radius boom type crane shall be equipped with a boom angle or a boom radius indicator in clear view from the operator's position.~~

~~(d) (c) Cranes Mobile cranes having a boom exceeding 60 feet in length or a maximum rated capacity exceeding 15 tons shall be provided with an approved a boom angle or radius indicator which clearly shows the boom angle in degrees to the operator at all times; ~~the indicator shall give a clear visual warning signal before high or low unsafe boom angles are reached; the indicator shall be adjustable, and under the control of the operator at all times; and a visual inspection of indicator shall be made each day by the operator to see that it is properly functioning.~~~~

(d) Anti two-block prevention and warning features.

(1) Telescopic boom cranes manufactured after February 28, 1992, shall be equipped with an anti two-block device or two-block damage prevention feature for all points of two-blocking.

(2) Lattice boom cranes manufactured after February 28, 1992, shall be equipped with an anti two-block device or a two-block warning feature, which functions for all points of two-blocking.

Exception: The requirements of subsection (d)(2), do not apply to lattice boom cranes when used for dragline, clamshell (grapple), magnet, and drop ball work.

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(3) Articulating boom cranes manufactured after August 30, 2001, equipped with a load hoisting device (winch) shall be equipped with a two-block damage prevention feature.

(e) Spirit levels, or equivalent, shall be provided to indicate the level of the crane fore and aft and across the width.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

Amend Section 5004 to read as follows:

§5004. Crane or Derrick Suspended Personnel Platforms.

(a) Scope. These Orders apply to the design, construction, testing, use and maintenance of personnel platforms, and the hoisting of personnel platforms on load lines of cranes and derricks.

(e) Instruments and Components.

(1) Cranes and derricks with variable angle booms shall be equipped with a boom angle indicator, readily visible to the operator.

(2) Cranes with telescoping booms shall be equipped with a device to indicate clearly to the operator, at all times, the boom's extended length, or an accurate determination of the load radius to be used during the lift shall be made prior to hoisting personnel.

(3)(A) ~~A positive acting~~ An anti two-block device shall be used which ~~deactivates the hoisting action before damage occurs in the event of a two blocking situation (two block damage prevention feature)~~ when activated, disengages all crane functions that can cause two-blocking.

(B) When a derrick is used to hoist personnel platforms, limiting devices shall be installed to prevent two-blocking.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.