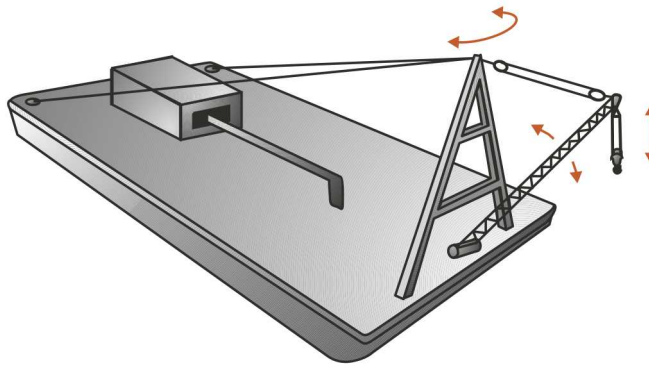


FLOATING STIFFLEG DERRICK
FIG. 3



FLOATING A-FRAME DERRICK
FIG. 4

PLATE V - Certificate of Unit Test and/or Examination of Cranes and Derricks Used for Lifting Service

PLATE V
STATE OF CALIFORNIA • DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (DOSH)

CERTIFICATE OF UNIT TEST AND/OR EXAMINATION OF
CRANES AND DERRICKS USED FOR LIFTING SERVICE

1. Owner: _____

2. Owner's Address: _____

3. Device (check): Crane Derrick Other
Location: (a) Remains at worksite (b) changes worksite (c) on barge

4. Description: _____
Rated Capacity: _____

5. Manufacturer: _____
Model No. _____ Serial No. _____

6. Owner's Identification (if any): _____

7. Service Status At Time of Survey: Lifting: _____
Other (describe): _____

8. Boom At Time of Survey (if luffing type): Length: _____
Type: _____

9. Test Loads Applied (cross out if only examination conducted):

Radius	Proof Load	Rated Load	Outriggers (yes, no)	Boom Direction (over, rear, over side)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Description of Proof Load: _____

10. Basis for assigned load ratings: _____

11. The examination shall cover the points listed below as applicable.

12. Remarks and/or limitations imposed: _____

I certify that on the _____ day of _____, 20____, the above described device was tested _____, examined _____ by the undersigned; that said test and/or examination met with the requirements of the Division of Occupational Safety and Health Administration.

Name and Address of authorized certifying agent: _____

U.S. Department of Labor Current Accreditation No. _____

Expiration Date _____ Signature: _____
Engineer's Registration No. _____ Title: _____
California DOSH Approval No. _____ Date: _____
(whichever applicable)

© 2002 Mancomm

* Full-size forms available free of charge at www.caloshacfr.com.

The examination shall be carried out in conjunction with each unit proof load test. The qualified person, or his authorized representative, shall make a determination as to requirements for the correction of deficiencies found. The examination shall cover the following points as applicable:

1. **All functional operating mechanisms** for improper function, maladjustment, and excessive component wear, with particular attention to sheaves, pins, and drums. This shall include operation with partial load, in which all functions and movements, including, where applicable, maximum possible rotation in both directions, are performed.
2. **All safety devices for malfunction.**
3. **Deterioration or leakage** in lines, tanks, valves, drains, pumps, and other parts of air or hydraulic systems.
4. **Loose gear components (i.e., hooks, etc.),** including wire rope and wire rope terminals and connections, with particular attention to sections of wire rope exposed to abnormal wear and sections not normally exposed for examination. Cracked or deformed hooks shall be discarded.
5. **Rope reeving for compliance** with certifying agent's recommendations.
6. **Deformed, cracked, or excessively corroded members** in crane structure and boom.
7. **Loose bolts, rivets, or other connections.**
8. **Worn, cracked, or distorted parts affecting safe operation.**
9. **Excessive wear on and free operation** of brake and clutch system parts, linings, pawls, and ratchets.
10. **Load, boom angle, or other indicators** shall be checked for any significant inaccuracy.
11. **It shall be ascertained** that there is a durable rating chart visible to the operator, covering the complete range of the certified agent's capacity ratings at all operating radii, for all permissible boom lengths and jib lengths, with alternate ratings for optional equipment affecting such ratings. Necessary precautions or warnings shall be included and operating controls marked or an explanation of controls shall be posted at the operator's position to indicate function.
12. **Careful examination of the junction areas** of removable boom sections, particularly for proper seating, cracks, deformities, or other defects in securing bolts and in the vicinity of such bolts.
13. **It shall be ascertained** that no counterweights in excess of the certified agent's specifications are fitted.
14. **Such other examinations** deemed necessary under the circumstances.

Article 92

Cranes (Except Boom-Type Mobile Cranes)

§4886 Purpose

The orders in this Article apply to overhead traveling or bridge cranes, storage cranes, gantry cranes, portal cranes, jib cranes, pillar cranes, pindle cranes, wall cranes, polar cranes of rated capacity exceeding one ton, and any modification of these types which retain their characteristic features except when an order is specific as to type of crane.

§4887 Access to the Cage, Cab, or Machine House Required

- (a) **Access to the cage, cab or machine house** shall be afforded by a fixed ladder, stairs or platform requiring a step-over of not more than 12 inches, except in installations prior to January 1, 1973, the gap may exceed 12 inches but shall not exceed 20 inches, and so located that a person approaching or leaving the crane shall not be exposed to dangerous shear hazards. If the top of a ladder or stairway or any position thereof is located where a moving part of a crane, such as a revolving house, could strike an employee ascending or descending the ladder or stairway, a prominent warning sign shall be posted at the foot of the ladder or stairway. A system of communication (such as a buzzer or bell) shall be established and maintained between the foot of the ladder or stairway and the operator's cab.
- (b) **For bridge and gantry cranes,** there shall be a ladder, stairs, or other safe means which provides access to the bridge walkway. Where cage is attached to and below bridge girders, no portion of the cage or cage platform shall be in the projected area between the girders unless there are bridge stops or bumpers to prevent the trolley from passing over the projected area opposite the cage.
- (c) **On all cranes having revolving cabs or machine houses,** means shall be provided to permit the operator to enter or leave the crane cab or machine house irrespective of position of the cab and to safely reach the ground.