

**JSCG 46 CFR  
CHAPTER I  
SHIPPING**

**SUBCHAPTER I, PART 91**

**CARGO & MISCELLANEOUS VESSELS  
INSPECTION & CERTIFICATION  
"CARGO GEAR and CRANES"  
31.10-16(a), (b)-(3), (c)-(2), (e)**

**PROOF LOAD  
LOAD  
TESTING  
REQUIREMENTS**

Safe working load of assembled gear	Proof load
Not exceeding 20 long tons.....	25% in excess
Over 20 long tons but not exceeding 50 long tons.....	5 tons in excess
Over 50 long tons.....	10% in excess

Note: Tons are long tons of 2240 pounds

**ANNUAL  
INSPECTION  
REQUIREMENTS**

A thorough examination of the assembled gear shall be made at least once in every year.

**SUBCHAPTER IA - PART 107**

**MOBILE OFFSHORE DRILLING UNITS  
INSPECTION & CERTIFICATION  
"CRANES"**

**107.259(a)**  
Each crane must be inspected & tested in accordance with API RP2D, Section 3, except that the rated load test must be performed in accordance with 107.260.

**107.260(a)**  
Rated load test @ both max. & min. boom angles every 5 years.  
(See USCG letter Sept. 6, 1990)

<u>Rated load of assembled gear</u>	<u>Proof load</u>
Less than or equal to 20 short tons.....	25% in excess
Greater than 20 short tons but less than or equal to 50 short tons.....	5 tons in excess
Greater than 50 short tons.....	10% in excess

Note: Tons are short tons of 2000 pounds in accordance with API RP 2D as specified by USCG 107.259(a) for USCG 107.260(a).

**107.259**  
Each crane must be inspected in accordance with API RP2D:

- a) initially: when new and before placed in service
- b) when permanently relocated
- c) before any use (typically daily)
- d) monthly
- e) quarterly
- f) annually

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**SUMMARIES OF EXCERPTS  
FROM**

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**USDL/OSHA REGULATIONS  
FOR THE  
CERTIFICATION OF  
MATERIAL HANDLING DEVICES  
IN THE GENERAL &  
CONSTRUCTION INDUSTRIES  
CFR TITLE 29: OSHA & LABOR STDS;  
PART 1910 & PART 1926**

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**USCG REGULATIONS  
FOR THE  
CERTIFICATION & INSPECTION OF  
CARGO & MISCELLANEOUS VESSELS  
&  
MOBILE OFFSHORE DRILLING UNITS  
CFR TITLE 46: SHIPPING;  
PART 91 & PART 107**

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**NOTE:** This leaflet has been prepared by ICGB to be used only as a guide for interested persons who always must refer to the most current provisions of the herein listed and other pertinent regulations to determine what are those latest and exact provisions.

**USDL/OSHA  
29 CFR**

**EXAMINATION,  
OPERATIONAL  
& RATED LOAD  
TEST**

**DESIGN &  
CONSTRUCTION  
REQUIREMENTS**

	GENERAL INDUSTRY -		PART 1910 - (SUB-	PART N)	CONSTRUCTION	INDUSTRY - PART 1926	(SUBPART N)
	POWERED INDUSTRIAL TRUCKS	OVERHEAD & GANTRY CRANES w/TROLLEYS	CRAWLER LOCOMOTIVE & TRUCK CRANES	DERRICKS	BASED MOUNTED DRUM & OVERHEAD HOISTS	CRANES & DERRICKS	CONVEYORS
	<p>1910.178(a)(3)- Approved trucks shall bear a label indicating approval by the testing lab.</p> <p>1910.178(q)(7) - Industrial trucks shall be examined before being placed in service. Such examination shall be made at least daily.</p>	<p>1910.179(k)(1)(i) - Operational tests. - Prior to initial use all new &amp; altered cranes shall be tested.</p> <p>1910.179(k)(2) - Rated load test. - Test loads shall not be more than 125% of rated load, unless otherwise recommended by the manufacturer.</p>	<p>1910.180 (b)(1) - The reqmts. of this section are applicable only to machines when used as lifting cranes.</p> <p>1910.180(e) Testing. (1) Operation Tests- In addition to prototype tests each new crane shall be tested by the mfg. to insure compliance. Certified production-crane test results shall be made available. (2) Rated Load Test- Test loads shall not exceed 110% of the rated load at any selected working radius. Where rerating is necessary: crawler, truck &amp; wheel mounted cranes to be tested in accordance with SAE recommended practice, crane load stability test code J765 (Apr 1961).</p>	<p>1910.181(e) Testing (1) Operational Test Prior to initial use all new and altered derricks shall be tested to insure compliance with this section.</p>	<p>1926.553(a) (4) All base-mounted drum hoists in use shall meet the applicable requirements for design, construction, installation, testing, inspection, maintenance, and operations, as prescribed by the manufacturer.</p> <p>1926.554(a) (6) All overhead hoists in use shall meet the applicable requirements for construction, design, installation, testing, inspection, maintenance, and operation, as prescribed by the manufacturer.</p>	<p>1926.550(a) (6) A thorough, annual inspection of the hoisting machinery shall be made by a competent person, or by a government or private agency recognized by the U.S. Department of Labor. The employer shall maintain a record of the dates and results of inspections for each hoisting machine and piece of equipment.</p> <p>1926.550(b) (2) All crawler, truck, or locomotive cranes in use shall meet the applicable requirements for design, inspection, construction, testing, maintenance and operation as prescribed in the ANSI B30.5-1968, Safety Code for Crawler, Locomotive and Truck Cranes.</p> <p>1926.550(d) (4) All overhead and gantry cranes in use shall meet the applicable requirements for design, construction, installation, testing, maintenance, inspection, and operation as prescribed in the ANSI B30.2.0-1967, Safety Code for Overhead and Gantry Cranes.</p> <p>1926.550(e) All derricks in use shall meet the applicable requirements for design, construction, installation, inspection, testing, maintenance, and operation as prescribed in American National Standards Institute B30.6-1969, Safety Code for Derricks.</p>	<p>1926.555(a) (8) All conveyors in use shall meet the applicable requirements for design, construction, inspection, testing, maintenance, and operation, as prescribed in the ANSI B20.1-1957, Safety Code for Conveyors, Cableways, and Related Equipment.</p>
	<p>1910.178(a)(2) ANSI B56.1-1969 Part II American National Std for powered industrial trucks.</p>	<p>1910.179(b)(2) Shall meet the design specs ANSI B30.2.0 - 1967 overhead &amp; gantry cranes.</p>	<p>1910.180(b)(2) Shall meet the design specs ANSI-B30.5 - 1968 Crawler, locomotive &amp; truck cranes.</p>	<p>1910.181(b)(2) Shall meet the design specs ANSI B30.6-1969 Derricks</p>		<p>1926.550(f) Floating cranes &amp; Derricks (1) <u>Mobile Cranes Mounted on Barges</u> (i) When a mobile crane is mounted on a barge, the rated load of the crane shall not exceed the original capacity specified by the manufacturer. (iii) When rated loads are reduced to stay within limits for list of the barge with a crane mounted on it, a new load rating chart shall be provided.</p> <p>(2) <u>Permanently Mounted Floating Cranes &amp; Derricks</u> (i) Crane &amp; derrick limitations &amp; capacities of use shall be based on competent design criteria. (iii) Floating cranes and floating derricks in use shall meet the applicable requirements for design, construction, installation, testing, maintenance, and operation as prescribed by the manufacturer.</p>	
	(II)			(III)		(IV)	