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Title 29 – Labor

Subtitle B – Regulations Relating to Labor

Chapter XVII – Occupational Safety and Health Administration, Department of Labor

Part 1915 – Occupational Safety and Health Standards for Shipyard Employment

Authority: 33 U.S.C. 941; 29 U.S.C. 653, 655, 657; Secretary of Labor's Order No. 12-71 (36 FR 8754); 8-76 (41 FR 25059), 9-83 (48 FR 35736), 1-90 (55 FR 9033), 6-96 (62 FR 111), 3-2000 (65 FR 50017), 5-2002 (67 FR 65008), 5-2007 (72 FR 31160), 4-2010 (75 FR 55355), 1-2012 (77 FR 3912), or 8-2020 (85 FR 58393); 29 CFR part 1911; and 5 U.S.C. 553, as applicable.

Source: 47 FR 16986, Apr. 20, 1982, unless otherwise noted.

Subpart J Ship's Machinery and Piping Systems

§ 1915.161 Scope and application of subpart.

§ 1915.162 Ship's boilers.

§ 1915.163 Ship's piping systems.

§ 1915.164 Ship's propulsion machinery.

§ 1915.165 Ship's deck machinery.

Subpart J—Ship's Machinery and Piping Systems

§ 1915.161 Scope and application of subpart.

The standards contained in this subpart shall apply to ship repairing and shipbuilding and shall not apply to shipbreaking.

§ 1915.162 Ship's boilers.

- (a) Before work is performed in the fire, steam, or water spaces of a boiler where employees may be subject to injury from the direct escape of a high temperature medium such as steam, or water, oil, or other medium at a high temperature entering from an interconnecting system, the employer shall insure that the following steps are taken:
 - (1) The isolation and shutoff valves connecting the dead boiler with the live system or systems shall be secured, blanked, and then locked or tagged, in accordance with § 1915.89, indicating that employees are working on the boiler. This lock or tag shall not be removed nor the valves unblanked until it is determined that this may be done without creating a hazard to the employees working on the boiler, or until the work on the boiler is completed, in accordance with § 1915.89. When valves are welded instead of bolted, at least two isolation and shutoff valves connecting the dead boiler with the live system or systems shall be secured, and then locked or tagged, in accordance with § 1915.89.
 - (2) Drain connections to atmosphere on all of the dead interconnecting systems shall be opened for visual observation of drainage.
 - (3) A warning sign calling attention to the fact that employees are working in the boilers shall be hung in a conspicuous location in the engine room. This sign shall not be removed until it is determined that the work is completed and all employees are out of the boilers.

[47 FR 16986, Apr. 20, 1982, as amended at 76 FR 24711, May 2, 2011]

§ 1915.163 Ship's piping systems.

- (a) Before work is performed on a valve, fitting, or section of piping in a piping system where employees may be subject to injury from the direct escape of steam, or water, oil, or other medium at a high temperature, the employer shall insure that the following steps are taken:
 - (1) The isolation and shutoff valves connecting the dead system with the live system or systems shall be secured, blanked, and then locked or tagged, in accordance with § 1915.89, indicating that employees are working on the systems. The lock or tag shall not be removed or the valves unblanked until it is determined that this may be done without creating a hazard to the employees working on the system, or until the work on the system is completed, in accordance with § 1915.89. When valves are welded instead of bolted, at least two isolation and shutoff valves connecting the dead system with the live system or systems shall be secured, and then locked or tagged, in accordance with § 1915.89.
 - (2) Drain connections to the atmosphere on all of the dead interconnecting systems shall be opened for visual observation of drainage.

[47 FR 16986, Apr. 20, 1982, as amended at 67 FR 44545, July 3, 2002; 76 FR 24711, May 2, 2011]

§ 1915.164 Ship's propulsion machinery.

- (a) Before work is performed on the main engine, reduction gear, or connecting accessories, the employer shall ensure that the following steps are taken:
 - (1) The jacking gear shall be engaged to prevent the main engine from turning over. A sign shall be posted at the throttle indicating that the jacking gear is engaged. This sign shall not be removed until the jacking gear can be safely disengaged.
 - (2) If the jacking gear is steam driven, the employer shall ensure that the stop valves to the jacking gear are secured, and then locked or tagged, in accordance with § 1915.89.
 - (3) If the jacking gear is electrically driven, the circuit controlling the jacking gear shall be de-energized by tripping the circuit breaker, opening the switch, or removing the fuse, whichever is appropriate, and then locked or tagged in accordance with § 1915.89.
- (b) Before the jacking engine is operated, the following precautions shall be taken:
 - (1) A check shall be made to ensure that all employees, equipment, and tools are clear of the engine, reduction gear, and its connecting accessories.
 - (2) A check shall be made to ensure that all employees, equipment and tools are free of the propeller.
- (c) Before work is started on or in the immediate vicinity of the propeller, a warning sign calling attention to the fact that employees are working in that area shall be hung in a conspicuous location in the engine room. This sign shall not be removed until it is determined that the work is completed and all employees are free of the propeller.
- (d) Before the main engine is turned over (e.g., when warming up before departure or testing after an overhaul) a check shall be made to ensure that all employees, equipment, and tools are free of the propeller.

[47 FR 16986, Apr. 20, 1982, as amended at 76 FR 24711, May 2, 2011]

§ 1915.165 Ship's deck machinery.

- (a) Before work is performed on the anchor windlass or any of its attached accessories, the employer shall ensure that the following steps are taken:
 - (1) The devil claws (also known as chain stoppers) shall be made fast to the anchor chains.
 - (2) The riding pawls shall be in the engaged position.
 - (3) In the absence of devil claws and riding pawls, the anchor chains shall be secured to a suitable fixed structure of the vessel.

[47 FR 16986, Apr. 20, 1982, as amended at 67 FR 44545, July 3, 2002]