

§ 149.620

33 CFR Ch. I (7-1-08 Edition)

§ 149.620 What happens when the Commandant (G-P) reviews and evaluates the construction drawings and specifications?

(a) The Commandant (G-P) may concurrently review and evaluate construction drawings and specifications with the Marine Safety Center and other Federal agencies having technical expertise, such as the Pipeline and Hazardous Materials Safety Administration and the Federal Energy Regulatory Commission, in order to ensure compliance with the Act and this subchapter.

(b) Construction may not begin until the drawings and specifications are approved by the Commandant (G-P).

(c) Once construction begins, the Coast Guard periodically inspects the construction site to ensure that the construction complies with the drawings and specifications approved under paragraph (b) of this section.

(d) When construction is complete, the licensee must submit two complete sets of as-built drawings and specifications to the Commandant (G-P).

§ 149.625 What are the design standards?

(a) Each component, except for those specifically addressed elsewhere in this subpart (for example, single point moorings, hoses, and aids to navigation buoys), must be designed to withstand at least the combined wind, wave, and current forces of the most severe storm that can be expected to occur at the deepwater port in any 100-year period. Component design must meet a recognized industry standard and be appropriate for the protection of human life from death or serious injury, both on the port and on vessels calling on or servicing the port, and for the protection of the environment.

(b) The applicant or licensee will be required to submit to the Commandant (G-P) a design basis for approval containing all proposed standards to be used in the fabrication and construction of port components.

(c) Heliports on floating deepwater ports must be designed in compliance with the regulations at 46 CFR part 108.

STRUCTURAL FIRE PROTECTION

§ 149.640 What are the requirements for fire protection systems?

Manned deepwater ports built after January 1, 2004, and manned deepwater ports that undergo major conversions must comply with the requirements for structural fire protection outlined in this subpart.

§ 149.641 What are the structural fire protection requirements for accommodation spaces and modules?

(a) Accommodation spaces and modules must be designed, located, and constructed so as to minimize the effects of flame, excess heat, or blast effects caused by fires and explosions; and to provide safe refuge from fires and explosions for personnel for the minimum time needed to evacuate the space.

(b) This requirement may be met by complying with 46 CFR 108.131 through 108.147, provided that:

(1) The exterior boundaries of superstructures and deckhouses enclosing these spaces and modules, including any overhanging deck that supports these spaces and modules, are constructed to the A-60 standard defined in 46 CFR 108.131(b)(2) for any portion that faces and is within 100 feet of the hydrocarbon source (e.g., LNG flanges, send out line, etc.); and

(2) The ventilation system has both a means of shutting down the system and an alarm at a manned location that sounds when any hazardous or toxic substance enters the system.

(c) As an alternative to paragraph (b) of this section, the requirement imposed by this section may be met by complying with a national consensus standard, as that term is defined in 29 CFR 1910.2, for the structural fire protection of accommodation spaces and modules, and that complies with the standards set by a nationally recognized testing laboratory, as that term is defined by 29 CFR 1910.7, for such protection, provided that:

(1) All such spaces and modules on manned ports are provided with automatic fire detection and alarm systems. The alarm system must signal a normally manned area both visually and audibly, and be divided into zones

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to limit the area covered by a particular alarm signal;

(2) Sleeping quarters are fitted with smoke detectors that have local alarms that may or may not be connected with the central alarm panel; and

(3) Independent fire walls are constructed and installed so as to be of size and orientation sufficient to protect the exterior surfaces of the spaces or modules from extreme radiant heat flux levels, and provide the A-60 standard defined in 46 CFR 108.131(b)(2).

SINGLE POINT MOORINGS

§ 149.650 What are the requirements for single point moorings and their attached hoses?

Each single point mooring and its attached hose must be designed for the protection of the environment and for durability under combined wind, wave, and current forces of the most severe storm that can be expected to occur at the port in any 100-year period. The appropriateness of a design may be shown by its compliance with standards generally used within the offshore industry that are at least equivalent, in protecting the environment, to the standards in use on January 1, 2003, by any recognized classification society as defined in 46 CFR 8.100.

HELICOPTER FUELING FACILITIES

§ 149.655 What are the requirements for helicopter fueling facilities?

Helicopter fueling facilities must comply with 46 CFR 108.489 or an equivalent standard.

EMERGENCY POWER

§ 149.660 What are the requirements for emergency power?

(a) Each pumping platform complex must have emergency power equipment including power source, associated transforming equipment, and switchboard to provide power to simultaneously operate all of the following for a continuous period of 18 hours:

- (1) Emergency lighting circuits;
- (2) Aids to navigation equipment;
- (3) Communications equipment;
- (4) Radar equipment;
- (5) Alarm systems;

(6) Electrically operated fire pumps; and

(7) Other electrical equipment identified as emergency equipment in the operations manual for the deepwater port.

(b) The equipment required by paragraph (a) of this section must:

(1) All be located in the same space; and

(2) Contain only machinery and equipment for the supply of emergency power (in other words, no oil or natural gas transfer pumping equipment) in accordance with 46 CFR 112.05.

GENERAL ALARM SYSTEM

§ 149.665 What are the requirements for a general alarm system?

Each pumping platform complex must have a general alarm system that:

(a) Is capable of being manually activated by using alarm boxes;

(b) Is audible in all parts of the pumping platform complex, except in areas of high ambient noise levels where hearing protection is required under § 150.613 of this chapter; and

(c) Has a high intensity flashing light in areas where hearing protection is used.

§ 149.670 What are the requirements for marking a general alarm system?

Each of the following must be marked with the words "General Alarm" in yellow letters at least 1 inch high on a red background:

- (a) Each general alarm box; and
- (b) Each audio or visual device described under § 149.665 for signaling the general alarm.

PUBLIC ADDRESS SYSTEM

§ 149.675 What are the requirements for the public address system?

(a) For a manned deepwater port, each pumping platform complex must have a public address system operable from two locations on the complex.

(b) For an unmanned deepwater port, the vessel master must provide a working public address system on a vessel while it is moored or otherwise connected to the port.