§ 108.425 Fire hoses and associated equipment.
(a) Each length of fire hose in a fire main system must be—
(1) Of 1 1⁄2 or 2 1⁄2 inch nominal hose size diameter;
(2) Of 50 foot nominal hose size length; and
(b) Fire station hydrant connections shall be brass, bronze, or other equivalent metal. Couplings shall either:
(1) Use National Standard fire hose coupling threads for the 1 1⁄2 inch (38 millimeter) and 2 1⁄2 inch (64 millimeter) hose sizes, i.e., 9 threads per inch for 1 1⁄2 inch hose, and 7 1⁄2 threads per inch for 2 1⁄2 inch hose; or
(2) Be a uniform design for each hose diameter throughout the vessel.
(c) Each nozzle for a firehose in a fire main system must be a combination solid stream and water spray firehose nozzle that is approve under subpart 162.027. Combination solid stream and water spray nozzles previously approved under subpart 162.027 of this chapter may be retained so long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection.
(d) A combination solid stream and water spray firehose nozzle previously approved under subpart 162.027 of this chapter when installed in—
(1) Machinery spaces containing oil fired boilers, internal combustion machinery or oil fuel units; and
(2) Helicopter decks.

§ 108.427 International shore connection.
A fire main system on a unit in international service must have—
(a) At least one international shore connection that meets ASTM F 1121 (incorporated by reference, see §105.01-3).
(b) A cutoff valve and check valve for each connection; and
(c) Facilities available enabling the connection to be used on either side of the unit.

§ 108.429 Fire main system protection.
(a) Each pipe and fire hydrant in a fire main system must be installed to the extent practicable in locations that are not exposed to damage by materials that are moved on or onto the deck.
(b) Each part of the fire main system located on an exposed deck must either be protected against freezing or be fitted with cutout valves and drain valves to shut off and drain the entire exposed system in freezing weather.

AUTOMATIC SPRINKLING SYSTEMS

§ 108.430 General.
Automatic Sprinkler Systems shall comply with NFPA 13–1996.

§ 108.431 Carbon dioxide systems: General.
(a) Sections 108.431 through 108.457 apply to high pressure carbon dioxide fire extinguishing systems.
(b) Low pressure systems, that is, those in which the carbon dioxide is stored in liquid form at low temperature, must be approved by the Commandant.
(c) Each carbon dioxide system cylinder must be fabricated, tested, and marked in accordance with §§147.60 and 147.65 of this chapter.

§ 108.433 Quantity of CO2: General.
Each CO2 system must have enough gas to meet the quantity requirements of §108.439 for the space requiring the greatest amount of CO2.