§ 154.421 Cargo tank corrosion allowance.

A cargo tank must be designed with a corrosion allowance if the cargo tank:

(a) is located in a space that does not have inert gas or dry air; or

(b) carries a cargo that corrodes the tank material.

NOTE: Corrosion allowance for independent tank type C is contained in §54.01-35 of this chapter.

§ 154.418 General.

An integral tank must not be designed for a temperature colder than −10 °C (14 °F), unless the tank is specially approved by the Commandant (CG–ENG).

§ 154.419 Design vapor pressure.

The $P_o$ of an integral tank must not exceed 24.5 kPa gauge (3.55 psig) unless special approval by the Commandant (CG–ENG) allows a $P_o$ between 24.5 kPa gauge (3.55 psig) and 69 kPa gauge (10 psig).

§ 154.420 Tank design.


(b) The structure of an integral tank must be designed and shown by calculation to withstand the internal pressure determined under §154.407.

§ 154.421 Allowable stress.

The allowable stress for the integral tank structure must meet the American Bureau of Shipping’s allowable stress for the vessel’s hull published in