Coast Guard, DHS § 154.421

§ 154.412 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 §4.01-35 of this chapter.

INTEGRAL TANKS

§ 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.

(a) The structure of an integral tank must meet the deep tank scantling standards of the American Bureau of Shipping published in “Rules for Building and Classing Steel Vessels”, 1981.

(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