§ 154.407 Cargo tank internal pressure head.

(a) For the calculation required under §154.406(a)(1) and (b), the internal pressure head \( h_{eq} \), must be determined from the following formula:

\[
h_{eq} = 10 P_0 (h_{pd})_{max}
\]

where:

(1) The cargo tank has no temperature control for the cargo; and

(2) The vapor pressure of the cargo results solely from ambient temperature.

(c) The \( P_0 \) of a cargo tank may be exceeded under harbor conditions if specially approved by the Commandant (CG–ENG).


CARGO CONTAINMENT SYSTEMS

§ 154.401 Definitions.

As used in §§154.440 and 154.447:

\( \sigma_y \)" means the minimum yield strength of the tank material, including weld metal, at room temperature.

\( \sigma_t \)" means minimum tensile strength of the tank material, including weld metals, at room temperature.

§ 154.405 Design vapor pressure (\( P_0 \)) of a cargo tank.

(a) The design vapor pressure (\( P_0 \)) of a cargo tank must be equal to or greater than the MARVS.

(b) The \( P_0 \) of a cargo tank must be equal to or greater than the vapor pressure of the cargo at 45 °C (113 °F) if:

1. The cargo tank has no temperature control for the cargo; and

2. The vapor pressure of the cargo results solely from ambient temperature.

(c) The \( P_0 \) of a cargo tank may be exceeded under harbor conditions if specially approved by the Commandant (CG–ENG).