§ 154.174

Transverse contiguous hull structure.


(b) The longitudinal contiguous hull structure of a vessel having cargo containment systems with secondary barriers must be designed for a temperature that is:

(1) Colder than the calculated temperature of this hull structure when:

(i) The temperature of the secondary barrier is the design temperature; and

(ii) For any waters in the world except Alaskan waters, the ambient cold condition of:

(A) Five knots air at $-18\, ^\circ\mathrm{C}$ ($0\, ^\circ\mathrm{F}$); and

(B) Still sea water at $0\, ^\circ\mathrm{C}$ ($32\, ^\circ\mathrm{F}$); or

(iii) For Alaskan waters the ambient cold condition of:

(A) Five knots air at $-29\, ^\circ\mathrm{C}$ ($-20\, ^\circ\mathrm{F}$); and

(B) Still sea water at $-2\, ^\circ\mathrm{C}$ ($28\, ^\circ\mathrm{F}$); or

(2) Maintained by the heating system under §154.178, if, without heat, the contiguous hull structure is designed for a temperature that is colder than the calculated temperature of the hull structure assuming the:

(i) Temperature of the secondary barrier is the design temperature; and

(ii) Ambient cold conditions of still air at $5\, ^\circ\mathrm{C}$ ($41\, ^\circ\mathrm{F}$) and still sea water at $0\, ^\circ\mathrm{C}$ ($32\, ^\circ\mathrm{F}$).

§ 154.176 Longitudinal contiguous hull structure.


(b) The longitudinal contiguous hull structure of a vessel having cargo containment systems with secondary barriers must be designed for a temperature that is:

(1) Colder than the calculated temperature of this hull structure when:

(i) The temperature of the secondary barrier is the design temperature; and

(ii) For any waters in the world except Alaskan waters, the ambient cold condition of:

(A) Five knots air at $-18\, ^\circ\mathrm{C}$ ($0\, ^\circ\mathrm{F}$); and

(B) Still sea water at $0\, ^\circ\mathrm{C}$ ($32\, ^\circ\mathrm{F}$); or

(iii) For Alaskan waters the ambient cold condition of:

(A) Five knots air at $-29\, ^\circ\mathrm{C}$ ($-20\, ^\circ\mathrm{F}$); and

(B) Still sea water at $-2\, ^\circ\mathrm{C}$ ($28\, ^\circ\mathrm{F}$); or

(2) Maintained by the heating system under §154.178, if, without heat, the contiguous hull structure is designed for a temperature that is colder than the calculated temperature of the hull structure assuming the:

(i) Temperature of the secondary barrier is the design temperature; and

(ii) Ambient cold conditions of still air at $5\, ^\circ\mathrm{C}$ ($41\, ^\circ\mathrm{F}$) and still sea water at $0\, ^\circ\mathrm{C}$ ($32\, ^\circ\mathrm{F}$).