Coast Guard, DHS

§ 153.434 Heat transfer coils within a tank.
When a cargo tank contains any quantity of cargo, a cargo cooling or heating system having coils within the tank must keep the heat transfer fluid at a pressure greater than the pressure exerted on the heating or cooling system by the cargo.

§ 153.436 Heat transfer fluids: compatibility with cargo.
A heat transfer fluid separated from the cargo by only one wall (for example, the heat transfer fluid in a coil within a tank) must be compatible with the cargo under the standards prescribed for compatibility between two cargoes in Part 150 of this chapter.

§ 153.438 Cargo pressure or temperature alarms required.
(a) Each refrigerated tank must have:
(1) An alarm that operates when the cargo's pressure exceeds the vapor pressure described in §153.371(b); or
(2) An alarm that operates when the cargo's temperature exceeds the steady state temperature described in §153.371(b).

§ 153.440 Cargo temperature sensors.
(a) Except as prescribed in paragraph (c) of this section, when Table 1 refers to this section, the containment system must meet the following requirements:
(1) A heated or refrigerated cargo tank must have a remote reading second thermometer near the top of the tank and below the maximum liquid level allowed by §153.981.

§ 153.450 Cargo temperature sensors.
(a) Except as prescribed in paragraph (c) of this section, when Table 1 refers to this section, the containment system must meet the following requirements:
(1) A heated or refrigerated cargo tank must have a remote reading second thermometer near the top of the tank and below the maximum liquid level allowed by §153.981.

§ 153.460 Fire protection systems.
Each self-propelled ship and each manned non-self-propelled ship must meet the following:
(a) With the exception of the vent riser, each part of a cargo containment system exposed on the weatherdeck must be covered by the fire protection system listed beside the cargo in Table 1 and described in the footnotes to Table 1.

§ 153.460 Fire protection systems.
Each self-propelled ship and each manned non-self-propelled ship must meet the following:
(a) With the exception of the vent riser, each part of a cargo containment system exposed on the weatherdeck must be covered by the fire protection system listed beside the cargo in Table 1 and described in the footnotes to Table 1.

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Each self-propelled ship and each manned non-self-propelled ship must meet the following:
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