

SC Low pressure audible alarm system

287

(June 2018)

FSS Code Chapter 15.2.2.4.5 reads:

2.2.4.5 *Audible and visual alarms*

2.2.4.5.1 *Audible and visual alarms shall be provided, based on the system designed, to indicate:*

- .1 oxygen content in excess of 5% by volume;*
- .2 failure of the power supply to the indicating devices as referred to in paragraph 2.2.4.2;*
- .3 gas pressure less than 100 mm water gauge. The alarm arrangement shall be such as to ensure that the pressure in slop tanks in combination carriers can be monitored at all times;*
- .4 high-gas pressure; and*
- .5 failure of the power supply to the automatic control system.*

2.2.4.5.2 *The alarms required in paragraphs 2.2.4.5.1.1, 2.2.4.5.1.3 and 2.2.4.5.1.5 shall be fitted in the machinery space and cargo control room, where provided, but in each case in such a position that they are immediately received by responsible members of the crew.*

2.2.4.5.3 *An audible alarm system independent of that required in paragraph 2.2.4.5.1.3 or automatic shutdown of cargo pumps shall be provided to operate on predetermined limits of low pressure in the inert gas main being reached.*

2.2.4.5.4 *Two oxygen sensors shall be positioned at appropriate locations in the space or spaces containing the inert gas system. If the oxygen level falls below 19%, these sensors shall trigger alarms, which shall be both visible and audible inside and outside the space or spaces and shall be placed in such a position that they are immediately received by responsible members of the crew.*

Note:

1. This UI is to be uniformly implemented by IACS Societies for ships contracted for construction on or after 1 July 2019.

2. The "contracted for construction" date means the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. For further details regarding the date of "contract for construction", refer to IACS Procedural Requirement (PR) No. 29.

**SC
287**
(Cont)**Interpretation**

The term “independent alarm system” as specified in FSS Code 15.2.2.4.5 means that a second pressure sensor, independent of the sensor serving the alarms for low pressure, high pressure and pressure indication/recorder shall be provided. Notwithstanding the above, a common programmable logic controller (PLC) is, however, accepted for the alarms in the control system. The independent sensor is not required if the system is arranged for the shutdown of cargo pumps. If a system for shutdown of cargo pumps is arranged, an automatic system shutting down all cargo pumps shall be provided. The shutdown shall be alarmed at the control station. The shutdown shall not prevent the operation of ballast pumps or pumps used for bilge drainage of a cargo pump room.

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