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## KB030 DNV Requirements

### B200 Public Address System/General Alarm, applicable to all vessels

A general emergency alarm system complying with the requirements of paragraph 7.2.1 of the Code shall be provided and shall be used for summoning the passengers and crew to muster stations. The system shall be supplemented by a public address system complying with the requirements of paragraph 7.2.2 of the Code. Any centralised entertainment sound system shall automatically be turned off when the general emergency alarm system is activated.

The general emergency alarm shall be capable of sounding an alarm signal consisting of seven short blasts followed by one long blast to all areas as specified in the subsequent paragraphs.

The general alarm shall continue to function after it has been triggered until it is manually turned off or is temporarily interrupted by a message on the public address system.

Initiation of an emergency announcement on the public address system shall mute the general alarm system and the general alarm shall continue after ended public address announcement.

In addition, general emergency alarm shall have priority over other alarms.

(SOLAS Regulation III/6.4.2)

#### **Guidance note:**

With reference to the Code and IMO Res. A. 830 (19), sound pressure levels are defined as follows:-

- 1 General Alarm
  - a. Interior and exterior spaces: 80dB(A) and at least 10dB(A) above ambient noise levels
  - b. In sleeping positions and cabin bathrooms: 75dB(A) and at least 10dB(A) above ambient noise level.
  
- 2 Public Address
  - a. Interior spaces, including sleeping positions and cabin bathrooms: 75dB(A) and at least 20dB(A) above ambient noise level.
  - b. Exterior spaces: 80dB(A) and at least 15dB(A) above ambient noise level
  
- 3 In no cases should the audible alarm levels in a space exceed 120dB(A)

**Guidance note:**

A centralised entertainment sound system is a system that is controlled by a central unit. This central unit can be part of the general alarm or public address central units; or can be a separate unit used only for distribution of entertainment sounds to the different parts of the vessel.

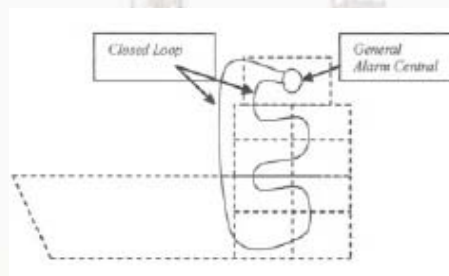
The general emergency alarm system shall be arranged either:-

- As one (or more) closed loop(s), or
- with fuses/breakers provided at each deck such that failure/short circuit in any deck does not affect other decks or the central unit.

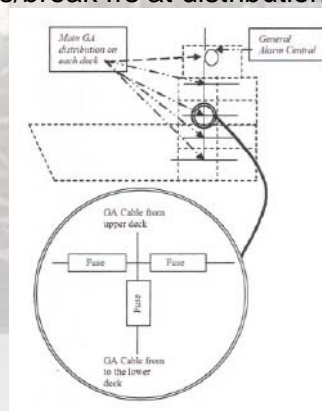
**Guidance note:**

Following examples show the two alternative solutions for design of general alarm system:

- a) Closed loop solution, meaning that the main loop from the GA central starts and ends at the central:



- b) Open loop solution, with fuses/breakers at distributions at each deck:



The general emergency alarm system shall be audible in accommodation and all normal crew working spaces. In areas with high ambient noise level, additional flashing light shall be used.

(SOLAS Regulation III/6.4.2 and III/6.4.3)

General emergency alarm shall be connected to the ships whistle/siren/typhoon.

General emergency alarm buzzer or public address loudspeakers shall be provided in all cabins.

Public address announcements or general alarm signal shall be audible in accordance with B201.

Public address loudspeakers shall be provided in all spaces where crew or passengers or both are present such as accommodation, all normal crew working spaces and muster stations.

(International Life-Saving Appliance (LSA) Code Ch VII 7.2.2.1)

If general alarm emergency or fire alarm is integrated with the public address system then no single failure shall render both systems inoperative in the same area.

**Guidance note:**

Provisions in IMO Res A 830 (19) apply to general emergency alarm and public address systems.

B300 Public Address System, applicable to passenger vessels

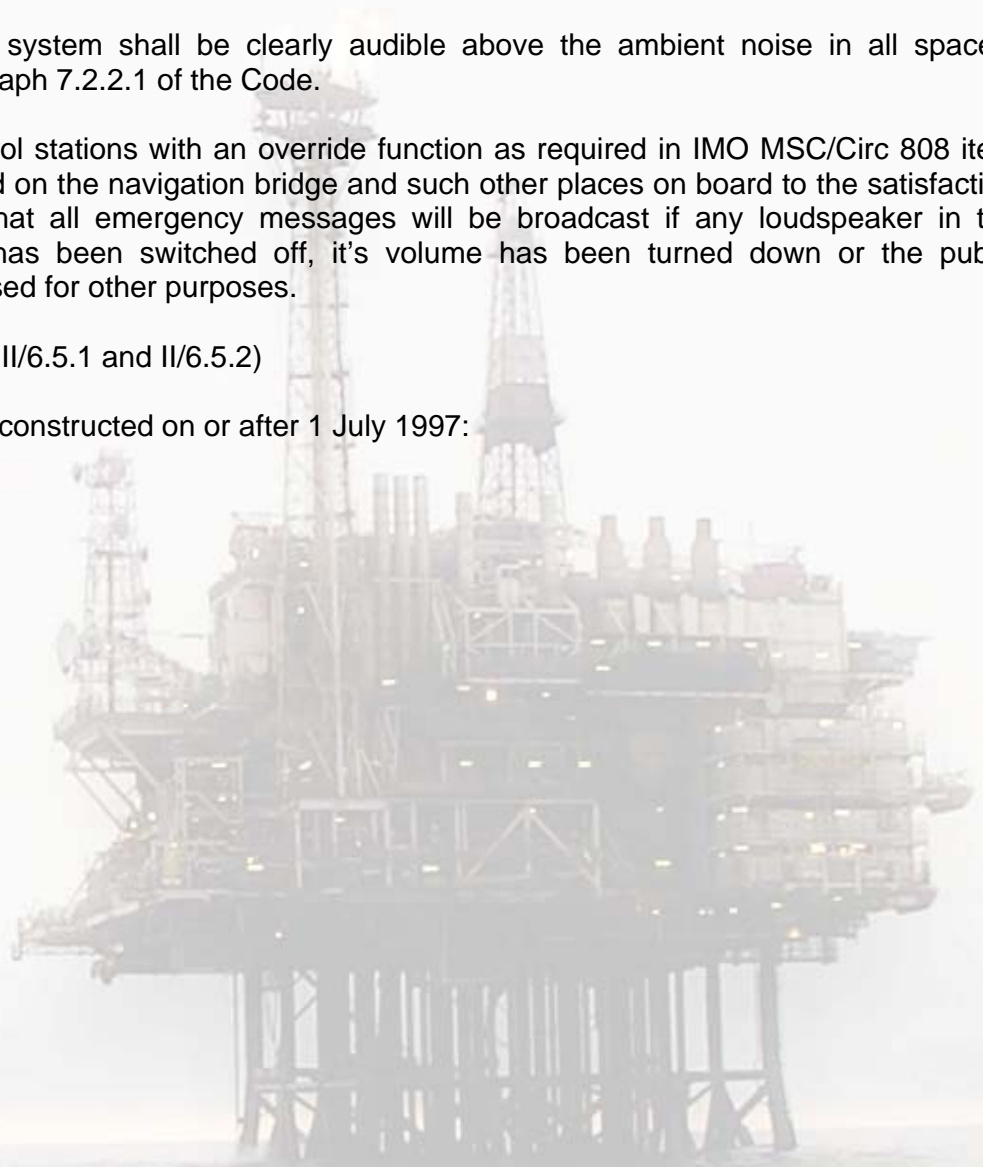
301 All passenger vessels shall be provided with a public address system complying with IMO MSC/Circ 808

The public address system shall be clearly audible above the ambient noise in all spaces, prescribed by paragraph 7.2.2.1 of the Code.

Public address control stations with an override function as required in IMO MSC/Circ 808 item 202 shall be installed on the navigation bridge and such other places on board to the satisfaction of the society, so that all emergency messages will be broadcast if any loudspeaker in the spaces concerned has been switched off, its volume has been turned down or the public address system is used for other purposes.

(SOLAS Regulation III/6.5.1 and II/6.5.2)

On passenger ships constructed on or after 1 July 1997:



**For your local office please contact:**

## **Head Office**

# **VODEC**

**Industrial Communications Ltd**

Vodec Industrial Communications Ltd,  
Parkview, Lockwood Close  
Nottingham,  
NG5 9JN,  
England,

Tel: +44 (0) 115 967 5240

Fax: +44 (0) 115 967 5241

E-mail: [sales@vodec.com](mailto:sales@vodec.com)

Web: [www.vodec.com](http://www.vodec.com)

## **Regional Offices**



Vodec-USA LLC,  
PO BOX 15  
Carencro  
LA 70520

United States of America

Tel: +1 337 326 5395

Fax: +1 337 406 0999

E-mail: [sales@vodec-usa.com](mailto:sales@vodec-usa.com)

Web: [www.vodec-usa.com](http://www.vodec-usa.com)



Vodec Asia Pacific Sdn. Bhd  
Suite E-10-5 Megan Avenue 1,  
189 Jalan Tun Razak  
50450 Kuala Lumpur  
Malaysia

Tel: +60 3-21669580

Fax: +60 3-21669807

Email: [sales@vodec-asiapac.com](mailto:sales@vodec-asiapac.com)

Web: [www.vodec-asiapac.com](http://www.vodec-asiapac.com)



Vodec France  
11, rue Emile Roux  
94120 Fontenay-Sous-Bois  
France

Tel: +33 (0) 141951849

Fax: +33 (0) 141951849

Email: [sales@vodec-france.com](mailto:sales@vodec-france.com)

Web: [www.vodec-france.com](http://www.vodec-france.com)