

Subject: Technical Information No. 2011-06

Requirement for Bridge Navigational Watch Alarm System (BNWAS)



Number: CL/9/3436

Date: 2011.Feb.09

شماره: ۹/۳۴۳۶/ق م

تاریخ: ۸۹/۱۱/۲۰

All respectful ICS surveyors

With my gratitude, respectfully,
Please consider the document related to the above mentioned subject which is maintained at following address in ICS Network (ICS-WAN):

\\server\ICS Organization\Convention and legislation Department\Publications\TECH\2011

Also the Hard Copy and Electronic File of the above mentioned document would be mailed to all ICS branch offices.

A. Jamaly
Manager of Convention & Legislation Department
Iranian Classification Society – ICS

کلیه بازرسان محترم ICS

با سلام

احتراماً سند مربوط به موضوع فوق‌الذکر را جهت انجام بهره برداری‌های لازم ملاحظه فرمائید. سند مذکور در شبکه داخلی موسسه با آدرس ذیل قابل دسترسی می‌باشد:

\\Server\ICS Organization\Convention and legislation Department\Publications\TECH\2011

همچنین نسخه الکترونیکی و هارد کپی این سند به کلیه شعب موسسه نیز توسط پست ارسال می‌گردد.

عبدالله جمالی

مدیریت واحدهم گنوانسیون ها و مقررات دریایی
موسسه رده بندی ایرانیان

Contents

1. Introduction	3
1.1 General	3
1.2 Changes	3
2. Bridge Navigational Watch Alarm System – Description	4
3. Mandatory Carriage Requirement for Bridge Navigational Watch Alarm System (BNWAS)	4
3.1 Application	4
3.2 Due Date for Application	4
3.3 Principal description of IMO Performance standards of BNWAS (IMO Res.MSC.128(75))	4
4. References	5
Table 1. Application for New Ships	5
Table 2. Application for Existing Ships.....	5

1. Introduction

1.1 General

This publication presents the mandatory Carriage Requirement for Bridge Navigational Watch Alarm System (BNWAS). This requirement is related to Reg. 19.2.2.3 & 19.2.2.4/ Ch. V of SOLAS convention which was adopted according to Res. MSC.282 (86). Also the requirements for "Performance standards of BNWAS" shall be performed in accordance with Res. MSC. 128 (75).

For more information and familiarity of ICS surveyors, the electronic files of following documents are enclosed to this Technical Information.

- Reg. 19.2.2.3 / Ch. V/ SOALS
- Reg. 19.2.2.4 / Ch. V/ SOALS
- Res MSC. 282 (86)
- Res MSC 128 (75)
- Sample of Type Approval Certificate
- Brochure of a sample system

The electronic file of this Package is available in the ICS network with the following address:

[\\server\ICS Organization\Convention and legislation Department\ Publications\ TECH\2011](file://server/ICS%20Organization/Convention%20and%20legislation%20Department/Publications/TECH/2011)

1.2 Changes

This edition dated 2011.Feb.09 and any other necessary changes related to this document will be announced after this date.

2. Bridge Navigational Watch Alarm System – Description

The purpose of a bridge navigational watch alarm system is to monitor bridge activity and detect operator disability which could lead to marine accidents. The system monitors awareness of the Officer of the Watch (OOW) and automatically alerts the Master or another qualified person if for any reason OOW becomes incapable of performing OOW's duties. This purpose is achieved by series of indications and alarm to alert first the OOW and, if he is not responding, then to alert Master or another qualified person.

Additionally, the BNWAS provide the OOW with means of calling for immediate assistance if required.

PLC's program and its time dependant periods are secured by password. All reset inputs are protected against permanent reset.

3. Mandatory Carriage Requirement for Bridge Navigational Watch Alarm System (BNWAS)

Carriage requirement for Bridge Navigational Watch Alarm System (BNWAS) was entered into force from 2011.01.01 with amendment of SOLAS Reg. V/19.2.2 in accordance with IMO Res.MSC.282 (86). This technical information is to provide carriage requirements of Bridge Navigational Watch Alarm System (BNWAS), and to give sum-up information for the performance standard of BNWAS which was issued by IMO as Res.MSC.128 (75)

3.1 Application

- 1) All Cargo ships of 150 G/T and upwards; and
- 2) All Passenger ships irrespective of size

3.2 Due Date for Application

The due dates for New and Existing vessels are in accordance with the details mentioned in table 1 and 2 respectively.

3.3 Principal description of IMO Performance standards of BNWAS (IMO Res.MSC.128(75))

- 1) The purpose of a bridge navigation watch alarm system (BNWAS) is to monitor bridge activity and detect operator disability which could lead to marine accidents.
- 2) Operational Requirements
 - Operational Modes
 - Operational sequence of indications and alarms
 - Reset function
 - Emergency call facility
- 3) Operational Controls
- 4) Presentation of information
 - Visual indication
 - First stage bridge audible alarm
 - Second and Third stage remote audible alarm
- 5) Reset Devices
- 6) Power Supply

Note:

Definition of "First Survey" according to MSC.1/Circ.1290 (since the term is used in Reg. 19.2.2.3 / Ch. V / SOLAS):

1. Unless indicated otherwise, when the term "first survey" is referenced by a regulation in the 1974 SOLAS Convention, as amended, it means the first annual survey, the first periodical survey or the first renewal survey whichever is due first after the date specified in the relevant regulation or any other survey if the Administration deems it to be reasonable and practicable, taking into account the extent of repairs and alterations being undertaken.
2. For a ship under construction, where the keel is laid before, but the ship is delivered after, the date specified in the relevant regulation, the initial survey is the "first survey".

4. References

- ✓ KR – Technical Information
- ✓ <http://docs.imo.org/>
- ✓ <http://krcon.krs.co.kr/>
- ✓ <http://www.sm-electrics.de>

Table 1. Application for New Ships

NEW SHIPS			
Kind of Ship	Size of ship (G/T)	Ships to be applied	Date to be applied
Passenger ships	All Passenger ships (Irrespective of Size)	Constructed on or after 1st July 2011	1st July 2011
Cargo ships	≥ 150 G/T		

Table 2. Application for Existing Ships

EXISTING SHIPS			
Kind of Ship	Size of ship (G/T)	Ships to be applied	Date to be applied
Passenger ships	All Passenger ships (Irrespective of Size)	Constructed before 1st July 2011	Not later than the First PS survey after 1st July 2012
Cargo ships	≥ 3000 G/T		Not later than the First SE survey after 1st July 2012
Cargo ships	≥ 500 G/T < 3000 G/T		Not later than the First SE survey after 1st July 2013
Cargo ships	≥ 150 G/T < 500 G/T		Not later than the First SE survey after 1st July 2014
<p>❖ Passenger ships or Cargo Ships which are constructed before 1st July 2011 as above sizes of ship but delivered after the due date as above, BNWAS shall be installed not later than her initial SE survey in accordance with IMO MSC.1/Circ.1290*.</p> <p>* Refer to the attached IMO MSC.1/Circ.1290.</p> <p>❖ BNWAS installed prior to 1st July 2011 may subsequently be exempted from full compliance with the standards adopted by the organization (Res.MSC.128 (75)), at the discretion of the Administration.</p>			