



THE REPUBLIC OF LIBERIA

BUREAU OF MARITIME AFFAIRS

BNWAS Compliance Checklist July 2011

Name of Ship:
IMO Number:
Make and Model of BNWAS:
Serial Number of BNWAS:
Year installed:

OPERATIONAL REQUIREMENTS

A. Functionality

1. Operational modes

1.1 The BNWAS should incorporate the following operational modes:

a) Automatic mode - (Automatically brought into operation whenever the ship's heading or track control system is activated and inhibited when this system is not activated).

YES ☐ NO ☐

b) Manual mode - ON (In operation constantly); Manual OFF (Does not operate under any circumstances).

YES ☐ NO ☐

2. Operational sequence of indications and alarms

2.1 Once operational, the alarm system should remain dormant for a period of between 3 and 12 min (Td).

YES ☐ NO ☐

2.2 At the end of this dormant period, the alarm system should initiate a visual indication on the bridge.

YES ☐ NO ☐

2.3 If not reset, the BNWAS should additionally sound a first stage audible alarm on the bridge 15 s after the visual indication is initiated.

YES ☐ NO ☐

2.4 If not reset, the BNWAS should additionally sound a second stage remote audible alarm in the backup officer's and/or Master's location 15 s after the first stage audible alarm is initiated

YES ☐ NO ☐

2.5 If not reset, the BNWAS should additionally sound a third stage remote audible alarm at the locations of further crew members capable of taking corrective actions 90 s after the second stage remote audible alarm is initiated.

YES ☐

NO ☐

2.6 In vessels other than passenger vessels, the second or third stage remote audible alarms may sound in all the above locations at the same time. If the second stage audible alarm is sounded in this way, the third stage alarm may be omitted.

YES ☐

NO ☐

2.7 In larger vessels, the delay between the second and third stage alarms may be set to a longer value on installation, up to a maximum of 3 min, to allow sufficient time for the backup officer and/or Master to reach the bridge.

YES ☐

NO ☐

3. Reset function

3.1 It should not be possible to initiate the reset function or cancel any audible alarm from any device, equipment or system not physically located in areas of the bridge providing proper look out.

YES ☐

NO ☐

3.2 The reset function should, by a single operator action, cancel the visual indication and all audible alarms and initiate a further dormant period. If the reset function is activated before the end of the dormant period, the period should be reinitiated to run for its full duration from the time of the reset.

YES ☐

NO ☐

3.3 To initiate the reset function, an input representing a single operator action by the OOW is required. This input may be generated by reset devices forming an integral part of the BNWAS or by external inputs from other equipment capable of registering physical activity and mental alertness of the OOW.

YES ☐

NO ☐

3.4 A continuous activation of any reset device should not prolong the dormant period or cause a suppression of the sequence of indications and alarms.

YES ☐

NO ☐

4. Emergency call facility

4.1 Means may be provided on the bridge to immediately activate the second, and subsequently third, stage remote audible alarms by means of an "Emergency Call" push button or similar.

YES ☐

NO ☐

B. Accuracy

The alarm system should be capable of achieving the timings stated in section 4.1.2 with an accuracy of 5% or 5 s, whichever is less, under all environmental conditions.

YES ☐

NO ☐

C. Security

The means of selecting the Operational Mode and the duration of the Dormant Period (Td) should be security protected so that access to these controls should be restricted to the Master only.

YES ☐ NO ☐

D. Malfunction alarms and indications

If a malfunction of, or power supply failure to, the BNWAS is detected, this should be indicated. Means shall be provided to allow the repeat of this indication on a central alarm panel if fitted.

YES ☐ NO ☐

ERGONOMIC CRITERIA

E. Operational controls

1. A protected means of selecting the operational mode of the BNWAS.

YES ☐ NO ☐

2. A protected means of selecting the duration of the dormant period of the BNWAS.

YES ☐ NO ☐

3. A means of activating the "Emergency Call" function if this facility is incorporated within the BNWAS.

YES ☐ NO ☐

4. Reset facilities Means of activating the reset function should only be available in positions on the bridge giving proper look out and preferably adjacent to visual indications. Means of activating the reset function should be easily accessible from the conning position, the workstation for navigating and manoeuvring, the workstation for monitoring and the bridge wings.

YES ☐ NO ☐

F. Operational requirements

1. Operational mode

The operational mode of the equipment should be indicated to the OOW.

YES ☐ NO ☐

2. Visual indications

The visual indication initiated at the end of the dormant period should take the form of a flashing indication. Flashing indications should be visible from all operational positions on the bridge where the OOW may reasonably be expected to be stationed. The colour of the indication(s) should be chosen so as not to impair night vision and dimming facilities (although not to extinction) should be incorporated.

YES ☐ NO ☐

3. First stage bridge audible alarm

The first stage audible alarm which sounds on the bridge at the end of the visual indication period should have its own characteristic tone or modulation intended to alert, but not to startle, the OOW. This alarm should be

audible from all operational positions on the bridge where the OOW may reasonably be expected to be stationed. This function may be engineered using one or more sounding devices. Tone/modulation characteristics and volume level should be selectable during commissioning of the system.

YES ☐ NO ☐

4. Second and third stage remote audible alarm

The remote audible alarm which sounds in the locations of the Master, officers and further crew members capable of taking corrective action at the end of the bridge audible alarm period should be easily identifiable by its sound, should indicate urgency, and be separate from the general emergency alarm. The volume of this alarm should be sufficient for it to be heard throughout the locations above and to wake sleeping persons.

YES ☐ NO ☐

G. Specific requirements

1. System physical integrity

All items of equipment forming part of the BNWAS should be tamperproof so that no member of the crew may interfere with the system's operation.

YES ☐ NO ☐

2. Reset devices

Reset devices should be designed and installed so as to minimise the possibility of their operation by any means other than activation by the OOW. Reset devices should all be of a uniform design and should be illuminated for identification at night.

YES ☐ NO ☐

3. Alternative reset arrangements may be incorporated to initiate the reset function from other equipment on the bridge capable of registering operator actions in positions giving proper look out.

YES ☐ NO ☐

H. Power supply

The BNWAS should be powered from the ship's main power supply. The malfunction indication, and all elements of the Emergency Call facility, if incorporated, should be powered from a battery maintained supply.

YES ☐ NO ☐