



TECHNICAL CIRCULAR No. 110 of 20th February 2013

To: All Surveyors/Auditors

Applicable to flag: All Flags

Subject: **SOLAS Survey: Safety Radio Certificate**

Reference: **SOLAS; CONARINA Procedures**

SOLAS SURVEY: Safety Radio Certificate

Certificate Type: The certificate type is interim or short term.

Country Name: The formal country name to be provided.

Name of Ship: It is to be obtained from the Certificate of Registration issued by the flag state.

Sea Areas in which the Ship is Certified to Operate (Req. IV/2): If the vessel fully complies with GMDSS, then the Sea Areas in which the vessel is qualified to operate are to be indicated. If the vessel is provided with GMDSS equipment that allows the vessel to operate in several Sea Areas, then all the Sea Areas should be listed (e.g., A1, A2, and A3). If the vessel does not fully comply with the GMDSS regulations, "N/A" should be indicated.

Exemptions: Indicate whether an Exemption Certificate "has" or "has not" been provided. If an Exemption Certificate has been issued, it should be attached to the certificate. Exemption Certificates are issued by the Administration or by CONARINA.

Validity Date: The validity date is to be the same as the validity of the Class Certificate if issued. Where the Radio Technician and the CONARINA Surveyor carry out servicing and survey of the radio equipment at different times, the determining factor for the validity date is the date of the Radio Technician's servicing of the equipment (i.e., expiration of Certificate is one year from date of Technician's visit).

Endorsement: The certificate is to be endorsed upon satisfactory completion of the periodical surveys which are conducted annually.

General

For the ships which apply to equipment that complies with GMDSS, the Surveyor, with input from the Radio Technician, shall ensure that the individual equipment indicated as provided in this section complies with all the technical aspects of GMDSS.

Qualified Persons: Enter the minimum number of persons with the required qualifications to operate

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the radio installation as ONE (1), as defined by the ITU Radio Regulations, unless indicated otherwise by the Administration.

Individual entries should only be made with respect to equipment that complies with GMDSS. When an item is fitted, it should be indicated as "**provided.**" If more than one of the same item is **provided**, then they should be indicated with the number available, for example "**(2) provided.**" If an item is not applicable, it is to be indicated with a "dash" "-".

Following is a summary of the technical requirements/definitions of various equipment referenced in this section. The Radio Technician should verify that the radio equipment meets GMDSS requirements.

Details of Radio facilities

1.0 Primary system: Vessel must be fitted with all equipment listed under subsection 1.1, 1.2, or 1.3 to be considered in compliance with the requirements of a "primary system."

1.1 VHF Radio Installations:

1.1.1 DSC Encoder: Equipment capable of transmitting and receiving DSC (digital selective calling) on VHF Channel 70 (156.525 MHz).

1.1.2 DSC Watch Receiver: Equipment capable of maintaining continuous DSC watch on VHF Channel 70.

1.1.3 Radiotelephony: Equipment capable of transmitting radiotelephony on channels 6 (156.300 MHz), 13 (156.650 MHz) and 16 (156.800 MHz).

1.2 MF radio installation:

1.2.1 DSC Encoder: Equipment capable of transmitting and receiving DSC on 2187.5 kHz.

1.2.2 DSC Watch Receiver: Equipment capable of maintaining a continuous watch on 2187.5 kHz.

1.2.3 Radiotelephony: Equipment capable of transmitting and receiving radiotelephony on 2182 kHz.

1.3 MF/HF radio installation:

1.3.1 DSC Encoder: Equipment capable of transmitting and receiving DSC on bands between 1605 kHz and 4000 kHz and between 4000 kHz and 27500 kHz.

1.3.2 DSC Watch Receiver: Equipment capable of maintaining a continuous DSC watch on 2187.5 kHz, 8414.5 kHz and at least one of the distress and safety DSC frequencies 4207.5 kHz, 6312 kHz, 12577 kHz, or 16804.5 kHz.

1.3.3 Radiotelephony: Equipment capable of transmitting and receiving radiotelephony on bands between 1605 kHz and 4000 kHz, and between 4000 kHz. and 27500 kHz.

1.3.4 Direct Printing Telegraphy: Equipment capable of transmitting and receiving narrow band direct printing telegraphy on bands between 1605 kHz and 4000 kHz, and between 4000 kHz and 27500 kHz.

1.4 INMARSAT Ship Earth Station: Either INMARSAT A , INMARSAT B, or INMARSAT C.

2.0 Secondary means of alerting: Following are options for compliance with secondary alerting requirement based on vessel's sea area. Equipment options indicated are to be in addition to those itemized in primary system section:

2.1 SEA AREA A1

VHF using DSC - VHF EPIRB or
406 MHz Satellite EPIRB or
MF using DSC or

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HF using DSC or
INMARSAT SES A or C

2.2 SEA AREA A1 and A2: Means of initiation of distress alert by a radio service other than MF.
406 MHz Satellite EPIRB or

HF using DSC or
INMARSAT SES A or C or
1.6 GHz Satellite EPIRB

2.3 SEA AREA A1, A2, and A3: With INMARSAT SES as primary system
406 MHz Satellite EPIRB or

HF using DSC or
Additional INMARSAT SES A or C or
1.6 GHz Satellite EPIRB

2.4 SEA AREA A1, A2, and A3: With MF/HF radio installation as primary system
406 MHz Satellite EPIRB or

INMARSAT SES A or C or
1.6 GHz Satellite EPIRB

2.5 SEA AREA A1, A2, A3, and A4: 406 MHz Satellite EPIRB

3.0 Facilities for Reception of Maritime Safety Information

3.1 Navtex Receiver: Equipment that receives short range Maritime Safety information on 518 kHz.

3.2 EGC Receiver: Equipment that receives Maritime Safety Information through the INMARSAT satellite communication system.

3.3 HF Direct Printing Radiotelegraph Receiver: Equipment that is required for vessels that are on voyages in areas where HF direct printing telegraphy Maritime Safety Information service is provided.

4.0 Satellite EPIRB

4.1 COSPAS-SARSAT: EPIRB that operates on 406 MHz.

4.2 INMARSAT: EPIRB that operates on 1.6 GHz.

5.0 VHF EPIRB: EPIRB that operates by transmitting a distress alert using DSC on VHF Channel 70.

6.0 Ship's Radar Transponder*: Survival craft search and rescue radar transponders (SARTS) provide locating function and operate on 9 GHz. Include when required.

Area (I) Methods used to ensure availability of radio facilities: Items 3.1, 3.2, and 3.3 are applicable according to the Sea Area that the fully equipped GMDSS vessel is operating. The correct response is "**provided**" for each method that is available.

* Now called "search and rescue locating devices" and may include AIS-SARTs, complying with the performance standards in MSC.246(83).

REFERENCES:

SOLAS

CONARINA Procedures

ATTACHMENTS: No.

Kindest Regards,

Cosmin Bozenovici

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Page 3 of 3