

# New Regulations WRC 2012 - NBDP Radiotelex / VHF

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Dear Madam or Sir,

The World Radiocommunication Conference 2012 (WRC-12) made extensive changes to appendices 17 and 18 of the Radio Regulations where frequencies and channeling arrangements for the maritime HF and VHF bands are specified, respectively.

It should be noted that the following changes are to be applied to HF radiocommunication equipment capable of operating narrow-band direct printing (NBDP) and VHF radiotelephone from the 1<sup>st</sup> of January 2017 and onward:

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## General Overview

### **Schedule:**

The Equipment has to be updated by the first Radio Survey after January 1. 2017, however final decision is made by the Flag Administrations. Please contact them to obtain their decision.

### **HF NBDP (Telex):**

Only MFHF Stations with **Telex** connected are effected.

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## MF/HF – Radiotelex

Maker / Model	Implication
FURUNO FS-1575/2575/5075	It will be possible to update the systems with new software available from October 2016.
FURUNO FS-1570/2570/5070 or earlier models:	It is possible to fulfil new requirements, however the display of the equipment is not able to show the frequency precise enough. It is under evaluation if this can be accepted by authorities. Most probably we will receive the confirmation from CIRM in January 2017.
SAILOR 2000 MF/HF Series	Will not be supported. If deemed non-compliant by the flag state the station is to be replaced.
SAILOR 4000 MF/HF Series	Will not be supported. If deemed non-compliant by the flag state the station is to be replaced.
SAILOR System 5000 MF/HF Series	Will be supported. For compliance with MSC.1/Circ.1460 an appropriate solution will be made available for updates not later than Q2-2017.
SAILOR 63xx MF/HF GMDSS DSC Class A (A-versions: Part number: 4063xxA-00500)	Will be supported. For compliance with MSC.1/Circ.1460 an appropriate solution will be made available for updates not later than Q2-2017.
SAILOR 63xx MF/HF GMDSS DSC Class A (B-versions: Part number: 4063xxB-00500)	Will be supported. For compliance with MSC.1/Circ.1460 new software based on the revised frequency table will be made available for updates not later than Q4-2016. Deliveries of new equipment after the release of the new SW will be including the new frequency table.
SKANTI 1000 MF/HF Series	Will not be supported. If deemed non-compliant by the flag state the station is to be replaced.
SKANTI 7000/8000 MF/HF	Will not be supported. If deemed non-compliant by the flag state the station is to be replaced.





## VHF

Maker / Model	Implication
FURUNO FM-8900S	From Software Ver. 02.01 (available since July 2015) the FM-8900S fulfils the new requirements. You should please check the software version of your FM-8900 by following procedure: Refer to Chapter 6.13 How to Display the Program Versions in the Operators Manual: 1. Press the MENU key to open the [MENU] screen. 2. Press the "arrow up" or "arrow down" key to select [VERSION] then press the ENTER key. The program versions for FM-8900S and HS-8900 will appear.
FURUNO FM-8900S/D and earlier models	Unfortunately, these VHF's will not fulfill the new requirements. Flag Administrations may, however, grant special permissions. Please check with your Flag Administrations.

## Detailed Explanation

### HF NBDP (Telex)

1. Deletion of certain channels allocated to NBDP in the HF band
2. Certain frequencies allocated for NBDP will be 50 Hz order in 6 MHz, 8 MHz, 12 MHz and 16 MHz bands. This would signify that the frequency indication on the radio equipment in question shall be read in 10 Hz order (down to the second decimal figure).

### VHF

1. TX frequency range will be changed from "155.0-161.475 MHz" to "155.0-161.600 MHz".

Presentation of a certain channel numbers shall be four digits at maximum.

Following on from the changes specified above, IMO published the MSC circular MSC.1/Circ.1460 in June 2013 by which it states that HF radio communication equipment capable of operating NBDP should be updated by the first radio survey after the 1<sup>st</sup> of January 2017. The same circular states that radio communication equipment other than HF radiocommunication equipment capable of operating NBDP may be updated appropriately in accordance with the decisions made by the flag administrations.

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## Solutions for non-compliant equipment

Vessels equipped with one of the above mentioned units that are not compatible with the new regulations can solve the non-compliance by installing a second Inmarsat-C unit on board and disconnect the NBDP radiotelex modem.

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### Option 1

#### **SAILOR 6110 Mini-C GMDSS Inmarsat-C transceiver system**

- WHEELMARK / MED / IMO approval
- compact unit and therefore perfect for areas with limited space as it is the case on most vessels
- user friendly softkey based interface simplifies the operation
- Possibility of polling, email, facsimile, telex, data reporting, EGC
- dedicated protected distress button
- 9-32VDC operating voltage



consisting of following equipment:

- SAILOR 3027C mini-C GMDSS transceiver
- SAILOR 6006 Message Terminal Distress
- SAILOR 6001 Keyboard
- 30m NMEA 2000 mini cable /plug for mini-c (backbone)
- 6m NMEA 2000 micro connection cable

(dropline)

- 6m NMEA 2000 Power Cable
- SAILOR H1252B USB printer
- Connectors and terminations
- User/installation guide

**5.199,00 €**

**available from stock**

## Option 2

### **FURUNO FELCOM-18 Inmarsat-C equipment**

- IMO / Wheelmark / MED approval
- user friendly softkey based interface simplifies the operation
- possibility of polling (LRIT), email, facsimile, data reporting, EGC
- 24VDC operating voltage



consisting of the following equipment:

- transceiver / TFT monitor data terminal IC-218
- keyboard BTC-5100C
- antenna IC-118
- 30m coaxial antenna cable
- junction box IC-318
- mounting brackets
- FURUNO PP-520 printer
- standard installation material and spare parts
- installation and operation manuals

**5.199,00 €**

**available from stock**