

2022 年 3 月 18 日

お客様各位

東京計器株式会社  
船用機器システムカンパニー

### チャンネル番号改正に伴う VHF 無線電話装置の 4 桁表示対応について

平素は弊社製品をお使いいただき誠にありがとうございます。  
チャンネル番号改正により VHF 無線電話装置は 4 桁チャンネルの表示対応が必要となるためご連絡致します。  
弊社より販売した一部製品は 4 桁チャンネルの表示に非対応のため、換装が必要となります。  
誠に恐縮ではございますがご確認をお願い致します。

#### 該当機種

・VHF 無線電話装置 : RSS201A、RU224A、TRV-1000

#### 実施期限

・2024 年 1 月 1 日以降、最初の無線検査まで

#### 経緯

・WRC-12 での改正

2012 年世界無線通信会議(WRC-12)において、HF 帯海上無線の周波数リスト(RR 付録第 17 号)及び VHF 帯の周波数リスト(RR 付録第 18 号)が改正され、2013.1.1 に発効されました。GMDSS 無線機の IMO 性能基準では、例えば VHF 無線機のチャンネルは RR 付録第 18 号に従うべきとされているため、新しい周波数に非対応の無線機は 2013 年以降の無線検査でチャンネルの不適合を指摘される懸念がありました。全ての無線機を短期間で対応させることは現実的でなく、現場で混乱を招くことを避けるために、2013 年に IMO 回章(MSC.1/Circ.1460)が発行され、2017 年まで猶予期間が設けられました。その後、HF 無線機の猶予期間が 2024 年とされ(Rev.1)、VHF 無線機の猶予期間も 2024 年と延長されたため(Rev.2)、結果として 10 年以上の移行期間が設けられました。2021.10 の IMO 第 104 回海上安全委員会(MSC104)で発行された(Rev.3)で実施期限が 2024 年 1 月 1 日以降の最初の無線検査であることが再確認されました。

#### RR 付録による変更点概要

・第 18 号 VHF 帯周波数  
チャンネル番号が 4 桁の新たな周波数が追加されました。

#### 弊社機器の対応について

旧モデルについては、システムの換装を提案させていただきます。

・VHF 無線電話装置(RSS201A、RU224A、TRV-1000)

RSS201A、RU224A、TRV-1000 はアップグレードによる対応ができません。

本ルールへの対応については旗国主管庁の判断に委ねられていますが RSS201A、RU224A、TRV-1000 については、機器の換装を提案させていただきます。

※TRV-2000 は 4 桁チャンネルの表示に対応しているため換装の必要はございません。

以上

ITU Channel (ITU-RR Appendix18)

| CH   | TX (MHz) | RX (MHz) |
|------|----------|----------|
| 01   | 156.050  | 160.650  |
| 02   | 156.100  | 160.700  |
| 03   | 156.150  | 160.750  |
| 04   | 156.200  | 160.800  |
| 05   | 156.250  | 160.850  |
| 06   | 156.300  | 156.300  |
| 07   | 156.350  | 160.950  |
| 08   | 156.400  | 156.400  |
| 09   | 156.450  | 156.450  |
| 10   | 156.500  | 156.500  |
| 11   | 156.550  | 156.550  |
| 12   | 156.600  | 156.600  |
| 13   | 156.650  | 156.650  |
| 14   | 156.700  | 156.700  |
| 15   | 156.750  | 156.750  |
| 16   | 156.800  | 156.800  |
| 17   | 156.850  | 156.850  |
| 18   | 156.900  | 161.500  |
| 19   | 156.950  | 161.550  |
| 1019 | 156.950  | 156.950  |
| 2019 | 161.550  | 161.550  |
| 20   | 157.000  | 161.600  |
| 1020 | 157.000  | 157.000  |
| 2020 | 161.600  | 161.600  |
| 21   | 157.050  | 161.650  |
| 22   | 157.100  | 161.700  |
| 23   | 157.150  | 161.750  |
| 24   | 157.200  | 161.800  |
| 25   | 157.250  | 161.850  |
| 26   | 157.300  | 161.900  |
| 27   | 157.350  | 161.950  |
| 28   | 157.400  | 162.000  |

|      |         |         |
|------|---------|---------|
| 60   | 156.025 | 160.625 |
| 61   | 156.075 | 160.675 |
| 62   | 156.125 | 160.725 |
| 63   | 156.175 | 160.775 |
| 64   | 156.225 | 160.825 |
| 65   | 156.275 | 160.875 |
| 66   | 156.325 | 160.925 |
| 67   | 156.375 | 156.375 |
| 68   | 156.425 | 156.425 |
| 69   | 156.475 | 156.475 |
| 70   | 156.525 | 156.525 |
| 71   | 156.575 | 156.575 |
| 72   | 156.625 | 156.625 |
| 73   | 156.675 | 156.675 |
| 74   | 156.725 | 156.725 |
| 75   | 156.775 | 156.775 |
| 76   | 156.825 | 156.825 |
| 77   | 156.875 | 156.875 |
| 78   | 156.925 | 161.525 |
| 1078 | 156.925 | 156.925 |
| 2078 | 161.525 | 161.525 |
| 79   | 156.975 | 161.575 |
| 1079 | 156.975 | 156.975 |
| 2079 | 161.575 | 161.575 |
| 80   | 157.025 | 161.625 |
| 81   | 157.075 | 161.675 |
| 82   | 157.125 | 161.725 |
| 83   | 157.175 | 161.775 |
| 84   | 157.225 | 161.825 |
| 85   | 157.275 | 161.875 |
| 86   | 157.325 | 161.925 |
| 87   | 157.375 | 157.375 |
| 88   | 157.425 | 157.425 |

■本件に関する問い合わせ先■

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MSC.1/Circ.1460/Rev.3

18 October 2021

## **GUIDANCE ON THE VALIDITY OF RADIOCOMMUNICATIONS EQUIPMENT INSTALLED AND USED ON SHIPS**

1 The Maritime Safety Committee, at its 104th session (4 to 8 October 2021), approved this circular, taking into account the recommendation of the Sub-Committee on Navigation, Communications and Search and Rescue at its eighth session (19 to 23 April 2021). The guidance in this circular recognizes that incompatibility may exist between VHF radiocommunication equipment installed on ships and on shore, and the revised frequencies and channelling arrangements for the maritime VHF bands as contained in appendix 18 to the ITU Radio Regulations (RR) – Edition 2020.

2 This circular replaces MSC.1/Circ.1460/Rev.2, which addressed both MF/HF radiocommunication equipment that is capable of operating narrow band direct-printing (NBDP) and VHF radiocommunication equipment. Since NBDP radiocommunication equipment will no longer be required under forthcoming amendments to SOLAS chapter IV, that equipment is not addressed in this circular.

3 The ITU World Radiocommunication Conferences in 2012, 2015 and 2019 made extensive changes to appendix 18 of the RR. While these changes do not affect the Global Maritime Distress and Safety System (GMDSS), they do affect the use of other frequencies used for VHF meteorological, navigational and urgent marine information broadcasts, port operations and Vessel Traffic Service (VTS). According to the *Performance standards for shipborne VHF radio installations capable of communication and digital selective calling* (resolution A.803(19), as amended), VHF radiocommunication equipment should comply with the RR.

4 The *Guidance on procedures for updating shipborne navigation and communication equipment* (MSC.1/Circ.1389) notes that updates to application software and firmware to meet changes in IMO and ITU regulatory requirements are needed.

5 To ensure GMDSS communication capability and the availability of appropriate GMDSS radiocommunication equipment, and without prejudice to the arrangements contained in appendix 18 of the RR, VHF radiocommunication equipment should be updated so that following the first radio survey after 1 January 2024, at the earliest, it meets the arrangements which will be in force by then.

6 Member States are invited to bring this information to the attention of the appropriate national authorities and all other parties concerned.

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MSC.1/Circ.1460/Rev.2  
16 June 2017

## **GUIDANCE ON THE VALIDITY OF RADIOCOMMUNICATIONS EQUIPMENT INSTALLED AND USED ON SHIPS**

1 The Maritime Safety Committee, at its ninety-second session (12 to 21 June 2013), taking into account the recommendation of the Sub-Committee on Radiocommunications and Search and Rescue at its seventeenth session (21 to 25 January 2013), having recognized concerns that incompatibility may exist between radiocommunication equipment installed on ships, and the revised frequencies and channelling arrangements for the maritime HF and VHF bands as contained in appendices 17 and 18 to the *Radio Regulations* (RR) – Edition 2012, approved the *Guidance on the validity of radiocommunications equipment installed and used on ships* (MSC.1/Circ.1460).

2 The Maritime Safety Committee, at its ninety-seventh session (21 to 25 November 2016), while noting that a revision of this circular was anticipated in parallel with the upcoming revision of SOLAS chapter IV, agreed to amend the date from 1 January 2017 to 1 January 2024 (paragraph 8 below), with the intention of avoiding any unnecessary updates of HF radiocommunication equipment that is already capable of operating narrow band direct printing (NBDP).

3 The Maritime Safety Committee, at its ninety-eighth session (7 to 16 June 2017), taking into account the recommendation of the Sub-Committee on Navigation, Communications and Search and Rescue at its fourth session (6 to 10 March 2017), agreed on paragraph 9 below, with the intention to treat MF radiocommunication equipment capable of operating NBDP as well as VHF equipment in the same way as HF NBDP radiocommunication equipment.

4 The World Radiocommunication Conference 2012 made extensive changes to appendices 17 and 18 of the RR. Whilst these changes do not affect the GMDSS, they do affect the use of other frequencies that would be used by services such as Port Operations and VTS.

5 The RR provisions apply as from the dates of application indicated in article 59 and resolution 98 of the RR. Timely action is required by ships to ensure that radiocommunication equipment complies with the RR. Replacement of operating hardware may be necessary to meet the changed requirements.



6 According to the *Performance standards for shipborne VHF radio installations capable of communication and digital selective calling* (resolution A.803(19)), the equipment should comply with the Radio Regulations.

7 Attention is drawn to MSC.1/Circ.1389, which contains *Guidance on procedures for updating shipborne navigation and communication equipment*, and that updates to application software and firmware to meet changes in IMO and ITU regulatory requirements were needed.

8 To ensure GMDSS communication capability, HF radiocommunication equipment capable of operating narrow-band direct printing (NBDP) should be updated so that, following the first radio survey after 1 January 2024, it meets the channelling arrangements reflected in sections II and III of part B in appendix 17 of the RR.

9 To ensure GMDSS communication capability and the availability of appropriate GMDSS radiocommunication equipment, MF radiocommunication equipment capable of operating NBDP as well as VHF equipment, without prejudice to the arrangements contained in appendix 18 of the RR, should be updated so that following the first radio survey after 1 January 2024, at the earliest, it meets the arrangements which will be in force by then.

10 Member States are invited to bring this information to the attention of the appropriate national authorities and all other parties concerned.

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MSC.1/Circ.1460/Rev.1  
25 November 2016

## **GUIDANCE ON THE VALIDITY OF RADIOCOMMUNICATIONS EQUIPMENT INSTALLED AND USED ON SHIPS**

1 The Maritime Safety Committee, at its ninety-second session (12 to 21 June 2013), taking into account the recommendation of the Sub-Committee on Radiocommunications and Search and Rescue at its seventeenth session (21 to 25 January 2013), having recognized concerns that incompatibility may exist between radiocommunication equipment installed on ships, and the revised frequencies and channelling arrangements for the maritime HF and VHF bands as contained in appendices 17 and 18 to the Radio Regulations (RR) – Edition 2012, approved the *Guidance on the validity of radiocommunications equipment installed and used on ships* (MSC.1/Circ.1460).

2 The Maritime Safety Committee, at its ninety-seventh session (21 to 25 November 2016), while noting that a revision of this circular was anticipated in parallel with the upcoming revision of SOLAS chapter IV, agreed to amend the date from 1 January 2017 to 1 January 2024 (paragraph 7 below), with the intention of avoiding any unnecessary updates of HF radiocommunication equipment that is already capable of operating narrow band direct printing (NBDP).

3 The World Radiocommunication Conference 2012 made extensive changes to appendices 17 and 18 of the RR. Whilst these changes do not affect the GMDSS, they do affect the use of other frequencies that would be used by services such as Port Operations and VTS.

4 The RR provisions apply as from the dates of application indicated in article 59 and resolution 98 of the RR. Timely action is required by ships to ensure that radiocommunication equipment complies with the RR. Replacement of operating hardware may be necessary to meet the changed requirements.

5 According to the *Performance standards for shipborne VHF radio installations capable of communication and digital selective calling* (resolution A.803(19)), the equipment should comply with the Radio Regulations.

6 Attention is drawn to MSC.1/Circ.1389, which contains *Guidance on procedures for updating shipborne navigation and communication equipment*, and that updates to application software and firmware to meet changes in IMO and ITU regulatory requirements were needed.

7 To ensure GMDSS communication capability, HF radiocommunication equipment capable of operating narrow-band direct printing (NBDP) should be updated so that, following the first radio survey after 1 January 2024, it meets the channelling arrangements reflected in sections II and III of part B in appendix 17 of the RR.