

18th March, 2022

Dear Customers,

Notice :

**Regarding the revised channel support including 4-digit channel for VHF Radio Telephone**

Thank you very much for using our products.

Due to the channel revision, VHF radiotelephone need to support 4-digit channel display. Some of our products do not support 4-digit channel display, so replacement is required. We apologize for the inconvenience.

**Affected products** VHF Radio Telephone : RSS201A, RU224A, TRV-1000

**Implementation deadline** : until the first wireless inspection after January 1, 2024

**Description**

•Amendment (WRC-12)

The World Radio communication Conference 2012 (WRC-12) made changes to frequencies and channel arrangements for appendices 17(HF) and 18(VHF) of the Radio Regulations (RR) on 1 January 2013. The IMO performance standards require, the channel of the VHF radio should comply to RR appendix 18. Therefore, there was concern that radios that do not support the new channel may fail the radio survey because of the channel incompatibility.

But, as a matter of fact, It is not realistic to comply all VHF Radio in a short period of time. So, IMO issued MSC.1/Circ.1460 in order to avoid confusion in the field. According to the document, update should be done until the first radio survey after 1 January 2017. After that, the transition period was re-extended until 2024 (Rev. 2).

This time, Rev.3 was issued and in this document reconfirmed the Application start date is the first Radio survey after January 1, 2024.

**Summary**

•Appendix 18(VHF) channeling arrangements

Some of the newly added channel consists of 4 digits channel number.

**The correspondence of our equipment**

•We propose a retrofit of the system for the old model.

•VHF Radio Telephone (RSS201A, RU224A, TRV-1000)

Latest model (TRV-2000) already comply with new channeling arrangements.

Previous model (RSS201A, RU224A, TRV-1000) may need to replace if compliance with new channel arrangement is required in accordance with the decisions of the Administration.

Sincerely yours,

Marine Systems Company  
TOKYO KEIKI INC.

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

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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.