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| **World Radiocommunication Conference (WRC-19)Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Addendum 1 toDocument 12(Add.9)-E** |
|  | **2 October 2019** |
|  | **Original: Russian** |
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| Regional Commonwealth in the field of Communications Common Proposals |
| Proposals for the work of the conference |
|  |
| Agenda item 1.9.1 |

1.9 to consider, based on the results of ITU-R studies:

1.9.1 regulatory actions within the frequency band 156-162.05 MHz for autonomous maritime radio devices to protect the GMDSS and automatic identifications system (AIS), in accordance with Resolution **362 (WRC-15)**;

Introduction

The RCC Administrations consider it reasonable to identify categories (types) and technical and operational characteristics of autonomous maritime radio devices in order to develop regulatory actions in the frequency band 156-162.05 MHz for autonomous maritime radio devices in order to protect GMDSS and AIS.

The RCC Administrations do not oppose using frequency bands of Appendix **18** of the Radio Regulations (RR) for Group A autonomous maritime radio devices intended for maritime safety (frequency bands: 156.5125-156.5375 MHz (channel 70 for DSC), 161.9625-161.9875 MHz (AIS 1 channel) and 162.0125-162.0375 MHz (AIS 2 channel)), or for Group B autonomous maritime radio devices not intended for maritime safety (frequency band 160.8875-160.9125 MHz for AIS technology (channel 2006), frequency bands 161.5125-161.5375 MHz (channel 2078), 161.5375-161.5625 MHz (channel 2019) and 161.5625-161.5875 MHz (channel 2079) for technologies other than AIS)).

The RCC Administrations consider that the effective isotropic radiated power (e.i.r.p.) of Group B autonomous maritime radio devices should be limited to 100 mW.

Proposal

In order to address WRC-19 agenda item 1.9.1, it is proposed to use the regulatory text in annex hereto.

MOD RCC/12A9A1/1

APPENDIX 18 (REV.WRC‑19)

Table of transmitting frequencies in the
VHF maritime mobile band

(See Article 52)

| Channeldesignator | Notes | Transmittingfrequencies (MHz) | Inter-ship | Port operations and ship movement | Publiccorres-pondence |
| --- | --- | --- | --- | --- | --- |
| From ship stations | From coast stations | Single frequency | Two frequency |
| … | … | … | … | … | … | … | … |
| 2078 | *mm)* |  | 161.525 |  |  |  |  |
| 2019 | *mm)* |  | 161.550 |  |  |  |  |
| 2079 | *mm)* |  | 161.575 |  |  |  |  |
| … | … | … | … | … | … | … | … |

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**Notes referring to the Table**

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*Specific notes*

*f)* The frequencies 156.300 MHz (channel 06), 156.525 MHz (channel 70), 156.800 MHz (channel 16), 161.975 MHz (AIS 1) and 162.025 MHz (AIS 2) may also be used by aircraft stations for the purpose of search and rescue operations and other safety-related communication. The frequencies 156.525 MHz (channel 70), 161.975 MHz (AIS 1) and 162.025 MHz (AIS 2) may also be used by Group A autonomous maritime radio devices intended for maritime safety, with use of AIS technology for digital selective calling. Such use shall be in accordance with the most recent version of Recommendation ITU‑R M.[AMRD].      (WRC‑19)

…

*mm)* Transmission on these channels is limited to coast stations. If permitted by administrations and specified by national regulations, these channels may be used by ship stations for transmission. All precautions should be taken to avoid harmful interference to channels AIS 1, AIS 2, 2027\* and 2028\*. Channels 2078, 2019 and 2079 may also be used for Group B autonomous maritime radio devices not intended for maritime safety which use technologies other than AIS and are in accordance with the most recent version of Recommendation ITU-R M.[AMRD]. Group B autonomous maritime radio devices shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. The e.i.r.p. of Group B autonomous maritime radio devices shall be limited to 100 mW.     (WRC‑19)

 \* From 1 January 2019, channel 2027 will be designated ASM 1 and channel 2028 will be designated ASM 2.

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*r)* In the maritime mobile service, the frequency 160.9 MHz (channel 2006) is reserved for use by Group B autonomous maritime radio devices not intended for maritime safety which use AIS technologies and are in accordance with the most recent version of Recommendation ITU-R M.[AMRD]. This frequency may also be used for future AIS technologies or systems operating on an experimental basis. If administrations authorize the use of Group B autonomous maritime radio devices or the experimental use of applications using AIS technologies, such operation shall not cause harmful interference to, or claim protection from, stations operating in the fixed and mobile services.     (WRC‑19)

**Reasons:** Revision marks in the table: Channels 2078, 2019 and 2079 are not suitable for port operations or the ship movement service in single-frequency mode. It is therefore proposed that these channels be used for Group B AMRD. The following are additional reasons relating to notes *f*, *mm* and *r*.
 *note f*: Group A AMRD are intended to enhance maritime safety. It is therefore necessary that Group A AMRD operate on common frequencies for digital selective calling and AIS to enable ships to detect them.
 *note mm*: for Group B AMRD using technologies other than AIS, the use of three channels, each with a 25 kHz bandwidth, is proposed. Channels 2078 (161.525 MHz), 2019 (161.550 MHz) and 2079 (161.575 MHz) are not suitable for ship station simplex operation owing to interference with the operation of AIS. With e.i.r.p. limited to 100 mW, a maximum antenna height of 1 m and a duty cycle of 10%, the risk of interference to coast stations using duplex channels 78, 19 and 79, with transmission frequencies 161.525 MHz (channel 78), 161.550 MHz (channel 19) and 161.575 MHz (channel 79), will be very small.
 *note r*: for Group B AMRD in which AIS technologies will be used, the use of one channel with a 25 kHz bandwidth is proposed. Channel 2006 (160.900 MHz) has already been identified for the use of future applications or systems.

SUP RCC/12A9A1/2#50289

RESOLUTION 362 (WRC-15)

Autonomous maritime radio devices operating in the frequency band 156‑162.05 MHz

**Reasons:** It is proposed that Resolution **362** **(WRC-15)** be deleted since, once the proposed modifications to the Radio Regulations have been made, it will become superfluous.

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