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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | |  |
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| PLENARY MEETING | | **Addendum 10 to Document 85-E** | |
|  | | **22 October 2023** | |
|  | | **Original: Russian** | |
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| Regional Commonwealth in the field of Communications Common Proposals | | | |
| PROPOSALS FOR THE WORK OF THE CONFERENCE | | | |
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| Agenda item 1.10 | | | |

1.10 to conduct studies on spectrum needs, coexistence with radiocommunication services and regulatory measures for possible new allocations for the aeronautical mobile service for the use of non-safety aeronautical mobile applications, in accordance with Resolution **430 (WRC‑19)**;

Introduction

The RCC Administrations do not object to new allocations to the aeronautical mobile (OR) service for non-safety aeronautical applications provided that there is appropriate protection of all affected services. To this end, the RCC Administrations propose footnotes that ensure protection of services in and out of band, based on the findings of sharing and compatibility studies. Also, it is important to emphasize the status of possible new allocations to the aeronautical mobile (OR) service for non-safety applications; therefore, two footnotes are proposed mentioning that the provisions of No. **4.10** do not apply to the aeronautical mobile (OR) service in the bands 15.4-15.7 GHz and 22‑22.21 GHz.

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD RCC/85A10/1#1642

15.4-18.4 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 15.4-15.43 AERONAUTICAL MOBILE (OR) ADD 5.A110 ADD 5.B110 ADD 5.C110  RADIOLOCATION 5.511E 5.511F  AERONAUTICAL RADIONAVIGATION | | |
| 15.43-15.63 FIXED-SATELLITE (Earth-to-space) 5.511A  AERONAUTICAL MOBILE (OR) ADD 5.A110 ADD 5.B110 ADD 5.C110  RADIOLOCATION 5.511E 5.511F  AERONAUTICAL RADIONAVIGATION  5.511C | | |
| 15.63-15.7 AERONAUTICAL MOBILE (OR) ADD 5.A110 ADD 5.B110 ADD 5.C110  RADIOLOCATION 5.511E 5.511F  AERONAUTICAL RADIONAVIGATION | | |
| ... | ... | ... |

**Reasons:** To provide for a new allocation to the aeronautical mobile (OR) service in the band 15.4-15.7 GHz, subject to the necessary protection of affected services.

ADD RCC/85A10/2

5.A110 In the frequency band 15.4-15.7 GHz, stations operating in the aeronautical mobile (OR) service shall not cause harmful interference to, or claim protection from, stations operating in the aeronautical radionavigation and radiolocation services.     (WRC‑23)

**Reasons:** In order to ensure the protection of the aeronautical radionavigation and radiolocation services.

ADD RCC/85A10/3

5.B110 The provisions of No. **4.10** do not apply to the aeronautical mobile (OR) service in the frequency band 15.4-15.7 GHz; use of this allocation is permitted exclusively within national territory.     (WRC‑23)

**Reasons:** In order to emphasize the status of this allocation for non-safety applications.

ADD RCC/85A10/4

5.C110 Use of the frequency band 15.4-15.7 GHz by the aeronautical mobile (OR) service shall not cause harmful interference to services operating in the frequency band 15.35-15.4 GHz, and is subject to agreement obtained under No. **9.21** with respect to the radio astronomy service. The power flux-density at the radio astronomy station operating in the frequency band 15.35-15.4 GHz from aeronautical mobile service stations shall not exceed −233 dB(W/(m2 · Hz)), unless otherwise specifically agreed by the affected administration(s).     (WRC‑23)

**Reasons:** In order to ensure the protection of the radio astronomy service.

MOD RCC/85A10/5#1648

22-24.75 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 22-22.21 FIXED  MOBILE except aeronautical (R) ADD 5.D110 ADD 5.E110 ADD 5.F110 ADD 5.G110  5.149 | | |
| 22.21-22.5 EARTH EXPLORATION-SATELLITE (passive)  FIXED  MOBILE except aeronautical mobile  RADIO ASTRONOMY  SPACE RESEARCH (passive)  5.149 5.532 ADD 5.E110 ADD 5.G110 | | |
| ... | ... | ... |

**Reasons:** To provide for a new allocation to the aeronautical mobile (OR) service in the band 22-22.21 GHz, subject to the necessary protection of affected services.

ADD RCC/85A10/6

5.D110 The provisions of No. **4.10** do not apply to the aeronautical mobile (OR) service in the frequency band 22-22.21 GHz; use of this allocation is permitted exclusively within national territory.     (WRC‑23)

**Reasons:** In order to emphasize the status of this allocation for non-safety applications.

ADD RCC/85A10/7

5.E110 In order to protect stations of the Earth exploration-satellite (passive) service operating in the frequency band 22.21-22.5 GHz, out-of-band e.i.r.p. of stations operating in the aeronautical mobile (OR) service shall not exceed −23 dBW in any 100 MHz band in the frequency band 22.21-22.5 GHz.     (WRC‑23)

**Reasons:** In order to ensure the protection of the Earth exploration-satellite (passive) service.

ADD RCC/85A10/8

5.F110 In order to protect stations of the fixed service operating in the frequency band 22-22.21 GHz, the following power flux-density values shall be used as a threshold for coordination under No. **9.21** for any station in the aeronautical mobile (OR) service visible from the territory of another administration, unless otherwise agreed between the notifying and the concerned administration(s):

0.88 θ − 130 for 0° ≤ θ ≤ 8°

2.86 θ − 146 for 8° < θ ≤ 15°

0.87 θ − 116 for 15° < θ ≤ 30°

0.067 θ − 92 for 30° < θ ≤ 90°

where θ is the angle of arrival of the incident wave above the horizontal plane, in degrees.     (WRC‑23)

**Reasons:** In order to ensure the protection of the fixed service.

ADD RCC/85A10/9

5.G110 The use of frequencies in the band 22-22.21 GHz by the aeronautical mobile (OR) service shall not cause harmful interference to the radio astronomy service operating in the frequency band 22.21-22.5 GHz and the mean power flux-density received at radio astronomy stations operating in the frequency band 22.21-22.5 GHz from stations of the aeronautical mobile service operating in the frequency band 22‑22.21 GHz shall not exceed −231 dB(W/(m2 · Hz)). For the frequency band 22.01-22.21 GHz, No. **5.149** applies.     (WRC‑23)

**Reasons:** In order to ensure the protection of the radio astronomy service.

SUP RCC/85A10/10

RESOLUTION 430 (WRC‑19)

Studies on frequency-related matters, including possible additional allocations, for the possible introduction of new non-safety aeronautical mobile applications

**Reasons:** With the above proposals, this resolution is considered fully implemented and no longer needed.

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