|  |  |
| --- | --- |
| **World Radiocommunication Conference (WRC-19) Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
|  |  |
|  | CPG(19)101 ANNEX VIII-21B |
| PLENARY MEETING | **Addendum 2 to Document XX(Add.21)-E** |
|  | **8 May 2019** |
|  | **Original: English** |
|  | |
| European Common Proposals | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 9.1(9.1.2) | |

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

9.1 on the activities of the Radiocommunication Sector since WRC-15;

9.1 (9.1.2) Resolution **761 (WRC-15)** **-** Compatibility of International Mobile Telecommunications and broadcasting-satellite service (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3

Introduction

ITU-R and CEPT have been conducting regulatory and technical studies between International Mobile Telecommunications (IMT) and the broadcasting-satellite service (sound) (BSS (sound)) in the frequency band 1 452-1 492 MHz in Region 1 and Region 3 pursuant to Resolution **761 (WRC‑15)**.

The protection of the BSS (sound) is achieved by the application of RR No **9.19** currently in force.

For the protection of IMT in Resolution **761 (WRC-15)**, the application of RR No **9.11** does not provide long-term stability for the operation of IMT due to the fact that only the IMT systems that would come into operation within the next three years would be protected if their coordination is agreed, and only for those three years. This situation implies that IMT systems may not be protected appropriately in those countries planning to deploy them in future, if the territory of those countries were covered by a satellite network service area provided by another country’s BSS (sound) system(s).

CEPT has harmonised the frequency band 1 452-1 492 MHz for supplemental downlink under the mobile service. Therefore CEPT is of the view to protect the IMT from BSS (sound).

Power flux density (pfd) limit(s) at the Earth’s surface produced by a space station in the BSS (sound) in the frequency band 1 452-1 492 MHz in Region 1 and Region 3 are proposed in RR Article **21**, except for the list of countries wishing to keep coordination procedure under RR No. **9.11**, because they have stations with more stringent protection requirement (e.g. aeronautical telemetry systems in countries listed in RR No **5.342** with protection criteria according to Report ITU-R M.2324).

Although the proposal is restricted to Region 1 and Region 3 in line with this agenda item, WRC-19 may consider the possibility for Region 2 to be included in the application of the pfd limit (together with the possibility for any concerned countries to continue to apply the existing RR No **9.11** procedure).

Proposals

ARTICLE 21

Terrestrial and space services sharing frequency bands above 1 GHz

Section V − Limits of power flux-density from space stations

MOD EUR/XXXXA21A2/1

TABLE **21-4**     (Rev.WRC‑15)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Frequency band | Service\* | Limit in dB(W/m2) for angles of arrival (δ) above the horizontal plane | | | | Reference bandwidth |
| 0°-5° | | 5°-25° | 25°-90° |
| 1°452-1°492°MHz (Region 1, Region 3) | Broadcasting-satellite (sound) | –112x | | | | 1°MHz |
| 1 670-1 700 MHz | Earth exploration- satellite  Meteorological-satellite | −133 (value based on sharing with meteorological aids service) | | | | 1.5 MHz |
| … | … | | … | … | … | … |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\* The references to services are those services which have allocations in Article 5.

x Except for the following countries in Region 1 and Region 3, for which coordination under RR No **9.11** applies : […].

**Reasons:** In order to facilitate the coexistence between IMT and BSS in the frequency band 1  452‑1 492 MHz, the current regulatory procedures governing the relation between BSS and terrestrial services need to be modified by inserting a pfd value of -112 dBW/m²/MHz for Region 1 and Region 3 with the view to provide a more stable (long-term) situation to IMT.

APPENDIX 5 (REV.WRC‑15)

Identification of administrations with which coordination is to be effected or  
agreement sought under the provisions of Article 9

MOD EUR/XXXXA21A2/2

TABLE 5-1 (*continued*)     (Rev.WRC‑15)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reference of Article 9 | Case | Frequency bands  (and Region) of the service  for which coordination  is sought | Threshold/condition | Calculation  method | Remarks |
| … | … | … | … | … | … |
| No. **9.11** GSO, non-GSO/ terrestrial | A space station in the BSS in any band shared on an equal primary basis with terrestrial services and where the BSS is not subject to a Plan, in respect of terrestrial services | 620-790 MHz (see Resolution **549 (WRC‑07)**) 1 452-1 492 MHz 2 310-2 360 MHz (No. **5.393**) 2 535-2 655 MHz (Nos. **5.417A** and **5.418**) 17.7-17.8 GHz (Region 2)  74-76 GHz | Bandwidths overlap: The detailed conditions for the application of No. **9.11** in the bands 2 630-2 655 MHz and 2 605-2 630 MHz are provided in Resolution **539 (Rev.WRC‑03)** for non-GSO BSS (sound) systems pursuant to Nos. **5.417A** and **5.418**, and in Nos. **5.417A** and **5.418** for GSO BSS (sound) networks pursuant to those provisions.  1 452-1 492 MHz: only with respect to Region 2 and to countries in Region 1 and Region 3 listed in note x of Table **21-4** of Article **21**. | Check by using the assigned frequencies and bandwidths |  |
| … | … | … | … | … | … |

**Reasons:** Coordination under RR No **9.11** will continue to apply only for countries for Region 1 and Region 3 that wish to do so because of more stringent protection requirement (e.g. in order to protect aeronautical telemetry systems).