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| **33 MEETING OF PERMANENT**  **CONSULTATIVE COMMITTEE II:**  **RADIOCOMMUNICATIONS**  **April 8 to 12, 2019**  **Monterrey, Nuevo Leon, Mexico** | | **OEA/Ser.L/XVII.4.2.33**  **CCP.II-RADIO/doc.**  **XX March**  **Original: english** | |
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|  | **U.S. PROPOSAL ON WRC-19 AGENDA ITEM 1.13**  **(45.5 – 47.2 GHz)** | |  |
|  | **(Item on the Agenda: 3.1)** | |  |
|  | **(Document submitted by the delegation of the United States of America)** | |  |

Introduction

This document contains an attachment including the updated USA proposal on WRC-19 Agenda Item 1.13 (45.5 – 47 and 47 – 47.2 GHz) for consideration in CITEL’s preparation to WRC-19 Agenda Item 1.13.

**ATTACHMENT**

1.13 to consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **238 (WRC-15)**;

**Background Information**:Resolution **238 (WRC-15)** invites ITU-R to conduct and complete in time for WRC-19 appropriate studies to determine the spectrum needs for the terrestrial component of IMT in the frequency range between 24.25 GHz and 86 GHz, as well as sharing and compatibility studies, taking into account the protection of services to which the frequency band is allocated on a primary basis, for the frequency bands:

– 24.25-27.5 GHz, 37-40.5 GHz, 42.5-43.5 GHz, 45.5-47 GHz, 47.2-50.2 GHz, 50.4‑52.6 GHz, 66-76 GHz and 81-86 GHz, which have allocations to the mobile service on a primary basis; and

– 31.8-33.4 GHz, 40.5-42.5 GHz and 47-47.2 GHz, which may require additional allocations to the mobile service on a primary basis.

The Resolution further invites WRC-19 to consider, based on the results of these studies, additional spectrum allocations to the mobile service on a primary basis and identification of frequency bands for the terrestrial component of IMT. The bands to be considered are limited to part or all of the bands listed above.

No studies were performed in the ITU-R during the study cycle leading up to WRC-19 between IMT-2020 systems and the relevant incumbent services in the 45.5-47 GHz and 47-47.2 GHz bands.

The 45.5-47 GHz band is allocated on a primary basis to the mobile-satellite service, the radionavigation service, and the radionavigation-satellite service (in addition to the mobile service). The frequency band 47-47.2 GHz is allocated on a primary basis to the amateur and amateur-satellite services and would require a new primary mobile allocation. As no studies have been done with these services, the conditions, if any, needed to ensure protection of these services have not yet been identified.

ARTICLE 5

**Frequency allocations**

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

**NOC** USA/4773A13/2

**40-47.5 GHz**

|  |  |  |
| --- | --- | --- |
| **Allocation to services** | | |
| **Region 1** | **Region 2** | **Region 3** |
| **40-40.5** EARTH EXPLORATION-SATELLITE (Earth-to-space)  FIXED  FIXED-SATELLITE (space-to-Earth) 5.516B  MOBILE  MOBILE-SATELLITE (space-to-Earth)  SPACE RESEARCH (Earth-to-space)  Earth exploration-satellite (space-to-Earth) | | |
| **40.5-41**  FIXED  FIXED-SATELLITE  (space-to-Earth)  BROADCASTING  BROADCASTING-SATELLITE  Mobile  5.547 | **40.5-41**  FIXED  FIXED-SATELLITE  (space-to-Earth) 5.516B  BROADCASTING  BROADCASTING-SATELLITE  Mobile  Mobile-satellite (space-to-Earth)  5.547 | **40.5-41**  FIXED  FIXED-SATELLITE  (space-to-Earth)  BROADCASTING  BROADCASTING-SATELLITE  Mobile  5.547 |
| **41-42.5** FIXED  FIXED-SATELLITE (space-to-Earth) 5.516B  BROADCASTING  BROADCASTING-SATELLITE  Mobile  5.547 5.551F 5.551H 5.551I | | |
| **42.5-43.5** FIXED  FIXED-SATELLITE (Earth-to-space) 5.552  MOBILE except aeronautical mobile  RADIO ASTRONOMY  5.149 5.547 | | |
| **43.5-47** MOBILE 5.553  MOBILE-SATELLITE  RADIONAVIGATION  RADIONAVIGATION-SATELLITE  5.554 | | |
| **47-47.2** AMATEUR  AMATEUR-SATELLITE | | |
| **47.2-47.5** FIXED  FIXED-SATELLITE (Earth-to-space) 5.552  MOBILE  5.552A | | |

**Reasons:** Studies were only performed between MSS and IMT-2020 systems in the 45.5-47 GHz band. The other incumbent services in 45.5-47 GHz and 47-47.2 GHz were not studied. Therefore, it has not been demonstrated that the incumbent services can be protected, as required by Resolution **238 (WRC-15)**.

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