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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**  **(31.8-33.4 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 (31.8-33.4 GHz) for consideration in CITEL’s preparation to WRC-19 Agenda Item 1.13.

**ATTACHMENT**

**Agenda Item 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.

Sharing and compatibility studies were conducted between IMT-2020 systems and the following systems in the 31.8-33.4 GHz range: radionavigation service (RNS), space research service (Deep Space) (SRS), Earth exploration-satellite (EESS) (passive), and radio astronomy service (RAS). The results are briefly summarized as follows:

* RNS: The studies show that sharing between IMT-2020 systems and the radionavigation service within 31.8-33.4 GHz is not feasible.
* SRS: The study results indicate that the separation distances needed to protect these particular facilities are relatively small; consequently, the protection of these stations could be considered on a national or bilateral/multilateral level.
* EESS (passive): The studies show interference exceedance.
* RAS: The studies show that separation distances of 19-49 km are needed.

**Proposal:**

ARTICLE 5

**Frequency allocations**

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

**NOC** USA/4773A13/1

**29.9-34.2 GHz**

|  |  |  |
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| **Allocation to services** | | |
| **Region 1** | **Region 2** | **Region 3** |
| **29.9-30** FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.527A 5.539  MOBILE-SATELLITE (Earth-to-space)  Earth exploration-satellite (Earth-to-space) 5.541 5.543  5.525 5.526 5.527 5.538 5.540 5.542 | | |
| **30-31** FIXED-SATELLITE (Earth-to-space) 5.338A  MOBILE-SATELLITE (Earth-to-space)  Standard frequency and time signal-satellite (space-to-Earth)  5.542 | | |
| **31-31.3** FIXED 5.338A 5.543A  MOBILE  Standard frequency and time signal-satellite (space-to-Earth)  Space research 5.544 5.545  5.149 | | |
| **31.3-31.5** EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  5.340 | | |
| **31.5-31.8**  EARTH EXPLORATION- SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  Fixed  Mobile except aeronautical mobile | **31.5-31.8**  EARTH EXPLORATION- SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive) | **31.5-31.8**  EARTH EXPLORATION- SATELLITE (passive)  RADIO ASTRONOMY  SPACE RESEARCH (passive)  Fixed  Mobile except aeronautical mobile |
| 5.149 5.546 | 5.340 | 5.149 |
| **31.8-32** FIXED 5.547A  RADIONAVIGATION  SPACE RESEARCH (deep space) (space-to-Earth)  5.547 5.547B 5.548 | | |
| **32-32.3** FIXED 5.547A  RADIONAVIGATION  SPACE RESEARCH (deep space) (space-to-Earth)  5.547 5.547C 5.548 | | |
| **32.3-33** FIXED 5.547A  INTER-SATELLITE  RADIONAVIGATION  5.547 5.547D 5.548 | | |
| **33-33.4** FIXED 5.547A  RADIONAVIGATION  5.547 5.547E | | |
| **…** | | |

**Reasons:** The studies show that sharing is not feasible between IMT and radionavigation service systems in the 31.8-33.4 GHz frequency range.

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