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| **36 MEETING OF PERMANENT****CONSULTATIVE COMMITTEE II:****RADIOCOMMUNICATIONS****November 30 to December 4, 2020*****Virtual meeting*** | **OEA/Ser.L/XVII.4.2.36****CCP.II-RADIO/doc. /20****7 November 2020****Original: English** |
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|  | **U.S. PRELIMINARY VIEW ON WRC-23 AGENDA ITEM 1.1** |  |
|  | **(Item on the Agenda: 3.1)** |  |
|  | **(Document submitted by United States of America)** |  |

Introduction

This document contains an attachment including the USA preliminary view on WRC-23 Agenda Item 1.1 for consideration in CITEL’s preparation for WRC-23.

**UNITED STATES OF AMERICA**

**DRAFT PRELIMINARY VIEWS FOR WRC-23**

**AGENDA ITEM 1.1**: to consider, based on the results of the ITU-R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. **5.441B** in accordance with Resolution **223 (Rev.WRC-19)**;

# **BACKGROUND:**

World Radiocommunication Conference 2015 (WRC-15) adopted No. **5.441B** which provides some countries with an identification for International Mobile Telecommunications (IMT) in the frequency band 4 800-4 990 MHz, or portions thereof, under certain conditions including the establishment of a power-flux density (pfd) limit to protect other mobile services. Technical studies to review this limit were conducted during the WRC-19 cycle; however, consensus was not reached. Discussions at WRC-19 resulted in a modification of No. **5.441B** to include additional countries in the footnote, and to further review the pfd limits at WRC-23. Resolution **223** was revised to include specific provisions relating to aircraft stations, fixed-service stations, and other ground-based stations of the mobile service operating in portions of the 4 800 – 4 990 MHz band through the following *resolves*:

*3 that in the frequency bands 4 800-4 825 MHz and 4 835-4 950 MHz, in order to identify potentially affected administrations when applying the procedure for seeking agreement under No.* ***9.21*** *by IMT stations in relation to aircraft stations, a coordination distance from an IMT station to the border of another country equal to 300 km (for land path)/450 km (for sea path) applies;*

*4 that in the frequency band 4 800-4 990 MHz, in order to identify potentially affected administrations when applying the procedure for seeking agreement under No.* ***9.21*** *by IMT stations in relation to fixed-service stations or other ground-based stations of the mobile service, a coordination distance from an IMT station to the border of another country equal to 70 km applies;*

In addition, WRC-19 decided while the pfd limits are subject to review at WRC-23 to not apply the protection of other mobile services through use of pfd limits from IMT stations in certain countries through the following *resolves*:

*5 that the power flux-density (pfd) limits in No.* ***5.441B****, which is subject to review at WRC-23, shall not apply to the following countries: Armenia, Brazil, Cambodia, China, Russian Federation, Kazakhstan, Lao P.D.R., Uzbekistan, South Africa, Viet Nam and Zimbabwe.*

Some administrations heavily utilize portions of the 4.8-4.99 GHz frequency band for fixed and mobile (including aeronautical) applications. Many different systems are currently operating in this band having had to migrate given new services being deployed in lower bands in the past. One example is small UAS datalinks that were migrated to this band. In the United States, the 4 940-4 990 MHz band has been the focus of action to expand access, including various opportunities for commercial mobile service operations.

# **U.S. VIEW:**

The United States is of the view that protection of aeronautical mobile and maritime mobile service and/or applications of the primary Mobile Service in the frequency band 4 800-4 990 MHz cannot be fulfilled solely through application of No. **9.21**. The United States supports the study of the technical and regulatory conditions for the protection of aeronautical mobile and maritime mobile service and/or applications located in international airspace or waters (i.e. outside national territories) and operated in the frequency band 4 800-4 990 MHz. With respect to the review of the pfd criteria contained in No. **5.441B**,the continued protection of aeronautical mobile and maritime mobile service and/or applications of the Mobile Service must be ensured.