

## UNITED STATES OF AMERICA

### DRAFT PROPOSALS FOR THE WORK OF THE CONFERENCE

**Agenda Item 1.1:** *to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233 (WRC-12);*

**Background Information:** The 2012 World Radiocommunication Conference (WRC-12) recognized a need for additional radio spectrum to support the increasing mobile data traffic, and placed consideration of additional spectrum allocations for terrestrial mobile broadband applications on the Agenda for WRC-15. Joint Task Group (JTG) 4-5-6-7 was established to consider spectrum requirements for IMT/mobile broadband and compatibility studies taking into account protection requirements of other services from concerned ITU-R Working Parties.

The radionavigation-satellite service (RNSS) has allocations used for Earth-to-space operations in the 5 000-5 010 MHz band and space-to-Earth and space-to-space operations in the 5 010-5 030 MHz band. Operators plan or currently operate several global and regional non-geostationary satellite RNSS systems, including GPS, GLONASS, Beidou, QZSS, Galileo, IRNSS within these bands. RNSS shares its allocations 5 000-5 010 MHz and 5 010-5 030 MHz with the aeronautical radionavigation service (ARNS), also a safety service.

There is a long history of protecting RNSS operations in the ITU. Multiple RNSS systems and networks transmit signals around-the-clock across all three ITU Regions and radiate across the entire surface of the Earth. Although these RNSS allocations are in bands that have favorable propagation and other characteristics for mobile broadband, JTG 4-5-6-7 did not study the use of these or adjacent bands. This is indicative of the virtually universal will to protect RNSS operations on a global basis.

Due to the vital and global role of the RNSS, and lack of demonstrated in-band and adjacent band frequency sharing compatibility, no allocation to the mobile service for IMT should be considered in the bands 5 000-5 010 MHz or 5 010-5 030 MHz.

**Proposal:**

**NOC**

USA/1.1/1

## ARTICLE 5

### Frequency allocations

**5 010-5 030 MHz**

Allocation to services		
Region 1	Region 2	Region 3
...		
<b>5 000-5 010</b>	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)	
<b>5 010-5 030</b>	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B	

**Reason:** To ensure the protection of current and future operation of RNSS systems around the world.