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**United States of America**

**DRAFT PROPOSALS FOR THE WORK OF THE CONFERENCE**

**Agenda Item 8.2:** *to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, taking into account Resolution 806 (WRC 07).*

**Background information**

In Resolution **806 (WRC-07)**, "Preliminary agenda for the 2015 World Radiocommunication Conference," WRC-07 included preliminary Agenda Item 2.2 dealing with the review of the use of the band 5091-5150 MHz by the fixed-satellite service (FSS) for feeder links to non-GSO, mobile-satellite service systems.

At WRC-95, allocation was made to the fixed-satellite service in the 5091-5150 MHz band for feeder links to non-GSO mobile-satellite service systems, in the Earth-to-space direction, on a primary basis under **No. 5.444A**.

The 5091-5150 MHz band was originally designated for expansion of the international standard Microwave Landing System (MLS) and Recommendation ITU-R S.1342 describes a method for determining coordination distances between international standard MLS stations operating in the band 5030-5090 MHz and FSS stations providing Earth-to-space feeder links in the 5091-5150 MHz band.

At WRC-07, an additional allocation was made, in the 5091-5150 MHz band, to the aeronautical mobile service (AMS) for use by aeronautical telemetry for flight test, aeronautical mobile (route) service and aeronautical security applications. Compatibility between the newly allocated aeronautical mobile service planned usage and the existing fixed-satellite service usage was demonstrated by extensive studies carried out by the ITU-R in the lead up to WRC-07.

This allocation is currently used by the HIBLEO-4FL network and has been used compatibly with other services since 1998. The extensive studies undertaken in preparation for WRC-07 resulted in the creation of **No. 5.444B** and Resolutions **748(WRC-07)**, **418(WRC-07)** and **419(WRC-07)** and demonstrated compatibility between the fixed-satellite service and the aeronautical mobile (route) service, the planned usage by the aeronautical mobile service used for aeronautical mobile telemetry for flight test, and aeronautical security transmissions, respectively.

The operator of the HIBLEO-4FL network has embarked on the replenishment of its satellite constellation with the expected entry into service of new spacecraft during 2010. As these new spacecraft will be replacements for existing equipment, they will also

utilize the 5091-5150 MHz range for feeder links in the Earth-to-space direction. The replacement satellites are expected to remain in service beyond the year 2025.

As a result of these developments, continued FSS use of the 5091-5150 MHz band for feeder links of the MSS, Earth-to-space, is required. Taking into account the time constraints contained in No. 5.444A, it is necessary to comply with Resolution 114 (WRC-03) prior to 2018. Recognizing the considerable effort expended in studying the compatibility between feeder links, Earth-to-space, for MSS systems and the Aeronautical Mobile Service in preparation for WRC-07, and since the interference budgets and scenarios studied before remain the same for the HIBLEO-4FL replacement spacecraft, study of technical and operational issues can and should be limited, to the sharing of this band between new systems of the aeronautical radionavigation service and the FSS providing feeder links of the non-GSO systems in the MSS.

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The continued use of this allocation by feeder uplinks is of great importance in providing continuing service by MSS systems to developing countries, under-served areas and critical response in the event of natural disasters and other civil emergencies.

### Proposal:

### Agenda Item 8.2

## RESOLUTION 806 (WRC-07)

### Preliminary agenda for the 2015 World Radiocommunication Conference

#### NOC

USA/xx/1

2.2 to review the use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth-to-space) (limited to feeder links of the non-GSO mobile-satellite service) in accordance with Resolution 114 (Rev.WRC-03);

**Reasons:** Maintaining this item on the Agenda for the 2015 World Radiocommunication Conference will allow studies of compatibility between the aeronautical radionavigation service and FSS feeder links of non-GSO mobile-satellite service systems and allow uninterrupted operation of MSS systems into the future.