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| **388399E**  **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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|  | **Addendum 17 to Document 66-E** |
|  | **15 October 2015** |
|  | **Original: Spanish** |
|  | |
| Cuba | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.17 | |

1.17 to consider possible spectrum requirements and regulatory actions, including appropriate aeronautical allocations, to support wireless avionics intra-communications (WAIC), in accordance withResolution **423 (WRC‑12)**;

Introduction

The aim of this agenda item is to find a solution to the aviation community’s need for adequate spectrum for the development of wireless avionic intra-aircraft communications (WAIC).

WAIC systems are an important element for the aeronautical industry’s objectives of offering greater savings, safety and reliability in air transport, making use of the fact that they offer the possibility of reducing weight and complexity in aircraft design and will increase the profitability of flights, facilitate and reduce the time required for installation and maintenance, allow on-board systems to be updated more efficiently with a view to maintaining or improving safety and operation throughout the lifetime of the aircraft, and also reduce the fuel consumption requirements of flights, thus benefiting the environment.

Based on the above, and taking into consideration the results of studies carried out, the Administration of Cuba supports the identification of the frequency band 4 200-4 400 MHz for the development of these systems, in accordance with the CPM Report.

ARTICLE 5

Frequency allocations

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

MOD CUB/66A17/1

2 700-4 800 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 4 200-4 400 AERONAUTICAL MOBILE (R) ADD 5.A117  AERONAUTICAL RADIONAVIGATION MOD 5.438  5.439 5.440 ADD 5.B117 | | |

MOD CUB/66A17/2

5.438 Use of the band 4 200-4 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground.

ADD CUB/66A17/3

5.A117 Use of the band 4 200-4 400 MHz by stations in the aeronautical mobile (R) service is reserved exclusively for wireless avionics intra-communication (WAIC) systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **[CUB-A117-WAIC] (WRC‑15)**.

ADD CUB/66A17/4

5.B117 Passive sensing in the Earth exploration-satellite and space research services may be authorized in the frequency band 4 200-4 400 MHz on a secondary basis.

**Reasons:** To make the necessary changes to the Table of Frequency Allocations to allow the band 4 200-4 400 MHz to be made available for the development of wireless avionics intra-communication (WAIC) systems.

SUP CUB/66A17/5

RESOLUTION 423 (WRC‑12)

Consideration of regulatory actions, including allocations, to support   
Wireless Avionics Intra-Communications

**Reasons:** No longer necessary.

ADD CUB/66A17/6

Draft New Resolution [CUB-A117-WAIC] (WRC-15)

Use of Wireless Avionics Intra-Communications in the  
frequency band 4 200-4 400 MHz

The World Radiocommunication Conference (Geneva, 2015),

considering

*a)* that aircraft are designed to enhance efficiency, reliability and safety, as well as to be more environmentally friendly;

*b)* that Wireless Avionics Intra-Communications (WAIC) systems provide radiocommunications between two or more aircraft stations integrated into or installed on a single aircraft, supporting the safe operation of the aircraft;

*c)* that WAIC systems do not provide radiocommunications between an aircraft and the ground, another aircraft or a satellite;

*d)* that WAIC systems operate in a manner that ensures the safe operation of an aircraft;

*e)* that WAIC systems operate during all phases of flight, including on the ground;

*f)* that aircraft equipped with WAIC systems operate globally;

*g)* that WAIC systems operating inside an aircraft receive the benefits of fuselage attenuation to facilitate sharing with other services;

*h)* that Recommendation ITU‑R M.2067 provides technical characteristics and operational objectives for WAIC systems,

recognizing

that Annex 10 to the Convention on International Civil Aviation contains Standards and Recommended Practices (SARPs) for safety aeronautical radionavigation and radiocommunication systems used by international civil aviation,

resolves

1 that WAIC is defined as radiocommunication between two or more aircraft stations located on a single aircraft, supporting the safe operation of the aircraft;

2 that the WAIC systems operating in the frequency band 4 200-4 400 MHz shall not cause harmful interference to, nor claim protection from systems of the aeronautical radionavigation service operating in this frequency band;

3 that the WAIC systems operating in the frequency band 4 200-4 400 MHz shall comply with Standards and Recommended Practices published in Annex 10 to the Convention on International Civil Aviation;

4 that No. **43.1** shall not apply for WAIC systems,

instructs the Secretary-General

to bring this Resolution to the attention of ICAO,

invites ICAO

to take into account Recommendation ITU‑R M.2085 in the course of development of SARPs for WAIC systems.

**Reasons:** To provide the relevant additional regulatory provisions

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