

## United States of America

### MODIFICATION TO DRAFT PROPOSAL FOR THE WORK OF THE CONFERENCE

**Agenda Item 7.2:** 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 **801 (WRC-2000)**;

Resolution 801 (WRC-2000), Agenda Item 2.12: to consider spectrum requirements for wideband aeronautical telemetry in the band between 3 GHz and 30 GHz;

**Background Information:** The World Radiocommunication Conference 2000 included item 2.12 in the preliminary agenda for the World Radiocommunication Conference 05/06. The 2000 Radiocommunication Assembly approved Question ITU-R 231/8, titled: *Operation of wideband aeronautical telemetry in bands above 3 GHz*. The 2000 Radiocommunication Assembly directed that Question ITU-R 231/8 studies be completed by 2005. ITU-R Circular letter CA/109 requested administrations and Sector Members to supply data on existing and planned wideband aeronautical telemetry systems operating at frequencies above 3 GHz. In this circular letter Wideband Aeronautical Telemetry is defined as ~~Emerging Telemetry Systems With Large Data Transfer Requirements to Support New and Different Telemetry Capabilities (such as high resolution video and associated data for remotely piloted aeronautical vehicles)~~. It is further defined as telemetry emerging telemetry systems with large data transfer requirements generally requiring a bandwidth of 20 MHz or greater.

The wideband requirements addressed under this WRC-06 proposal are in addition to those presently operating in the existing aeronautical telemetry allocations below 3 GHz (in the 1 429-1 525 and 2 300-2 390 MHz bands.) The requirement for these allocations will continue. Rather, the allocation addressed in this proposal is for new wideband requirements.

The responses to ITU-R Circular letter CA/109 indicated that there are requirements for additional telemetry spectrum, up to 300 MHz contiguous, for wideband aeronautical telemetry. There has been a trend toward cooperation and multi-platform testing that is leading to a need for identification of additional harmonized band(s) for aeronautical telemetry. As airframe speed, ~~missions applications~~, and technology increase there is an expanding need for new and more numerous telemetry points for real-time ~~testing of aircraft to ensure each platform is rigorously tested and evaluated to ensure safety on these high technology platforms~~ evaluation to ensure the safety and integrity of each aircraft. Numerous Administrations have a need for advanced telemetry ~~testing of multiple~~ involving platforms in complex environments; this ~~testing~~ is often carried out on a cooperative basis with other Administrations. By designating a harmonized wideband aeronautical telemetry band between 3 and 30 GHz, the need for this type of ~~testing can be met~~ application can be met. It is anticipated that a draft resolution on this matter will be prepared for WRC-03.

Proposal:

USA/ /1                    **MOD**

RESOLUTION 801 (WRC-2003)

**Agenda for the 2006 World Radiocommunication Conference**

The World Radiocommunication Conference (Geneva, 2003),

**Reasons:** Editorial

*resolves to give the view*

USA/ /2                    **NOMOD**

2.12 To consider spectrum requirements and allocations for wideband aeronautical telemetry in the band between 3 and 30 GHz.

**Reasons:** To provide an agenda item to study spectrum requirements and allocations for wideband aeronautical telemetry.

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