

ADD COM7/353/6 (B13/361/6) (R12/397/5)

RESOLUTION [COM7/5] (WRC-03)

Consideration of mobile allocations for use by wideband aeronautical telemetry and associated telecommand

The World Radiocommunication Conference (Geneva, 2003),

considering

- a) that there is a need to provide global spectrum to the mobile service for wideband aeronautical telemetry systems;
- b) that there is an identified need for additional spectrum required to meet future wideband aeronautical telemetry demands;
- c) that there is also a need to accommodate telecommand operations associated with aeronautical telemetry;
- d) that there is a need to protect existing services,

noting

- a) that a number of bands between 3 GHz and 30 GHz are already allocated to the mobile service, without excluding the aeronautical mobile service, on a secondary basis;
- b) that any spectrum allocated to the mobile service above 3 GHz (to include aeronautical telemetry) is not a substitution for existing allocations used for aeronautical telemetry purposes below 3 GHz, the requirement for which will continue,

recognizing

- a) that there are emerging telemetry systems with large data transfer requirements to support testing of commercial aircraft and other airframes;
- b) that the future technologies and performance expectations for airborne platforms contemplate a need for real-time monitoring of large data systems with multiple video streams (including high-definition video), high-definition sensors, and integrated high-speed avionics;
- c) that the 2000 Radiocommunication Assembly approved Question ITU-R 231/8, titled: "Operation of wideband aeronautical telemetry in bands above 3 GHz", with the target date of 2005;
- d) that those studies will provide a basis for considering regulatory changes, including additional allocations and recommendations, designed to accommodate justified spectrum requirements of aeronautical mobile telemetry consistent with the protection of incumbent services,

resolves

that WRC-07 be invited to:

- 1 consider the spectrum required to satisfy justified wideband aeronautical mobile telemetry requirements and associated telecommand above 3 GHz;
- 2 review, with a view to upgrading to primary, secondary allocations to the mobile service in the frequency range 3-16 GHz for the implementation of wideband aeronautical telemetry and associated telecommand;
- 3 consider possible additional allocations to the mobile service, including aeronautical mobile, on a primary basis in the frequency range 3-16 GHz for the implementation of wideband aeronautical telemetry and associated telecommand, taking into account *considering d)* above;
- 4 designate existing mobile allocations between 16 and 30 GHz for wideband aeronautical telemetry and associated telecommand,

invites ITU-R

to conduct, as a matter of urgency, studies to facilitate sharing between aeronautical mobile telemetry and the associated telecommand, on the one hand, and existing services, on the other hand, taking into account the *resolves* above.