

**IWG-1/WRC-07/Substantive/Doc. 1  
(Rev. 1)**

**UNITED STATES**

**DRAFT PRELIMINARY VIEWS ON WRC-07**

**WRC-07 Agenda Item 1.5:** to consider spectrum requirements and possible additional spectrum allocations for aeronautical telecommand and high bit-rate aeronautical telemetry.

**ISSUE:** This agenda item seeks to satisfy requirements for additional wideband aeronautical mobile telemetry, and associated telecommand, spectrum above 3 GHz. Methods for resolving the issue will entail sharing studies with existing services and continued protection of incumbent services.

**BACKGROUND:** This agenda item has its origins in efforts undertaken by the aerospace industry prior to WRC-97. The issue was pursued by the U.S. and other Administrations at WRC-03 and placed on the agenda for WRC-07. In addition, CITELE adopted an IAP in support of the agenda item, which was supported by the U.S. and numerous other Region 2 Administrations. The agenda item seeks to address a large and growing shortfall in the spectrum available to conduct aeronautical telemetry. The shortfall is due to rapidly increasing telemetry data rates associated with the testing of new technologies. It has been exacerbated by the loss of telemetry spectrum diverted to other applications such as mobile and broadcast satellite. Without additional spectrum, U.S. aeronautical development increasingly will be subject to program delays, escalating costs, and impaired competitiveness in the global marketplace. These factors will impact equipment manufacturers, airlines, civil test programs, and, ultimately, the traveling public. Additional worldwide telemetry allocations will also aid other nations inasmuch as many Administrations maintain and operate National air carriers, and several are initiating space programs of their own.

**U.S. VIEW:** The United States supports additional spectrum allocations for aeronautical telemetry. Once the ITU-R studies are completed, the U.S. can make a proposal regarding the methods by which the agenda item can be best satisfied.

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