QUESTION ITU-R 110-1/4

Interference to the aeronautical mobile-satellite (R) service

(1992-2002)

The ITU Radiocommunication Assembly,

considering

*a)* that the aeronautical mobile-satellite (R) service (AMS(R)S) provides communications relating to safety and regularity of flight (see Nos. **1.36** and **1.59** of the Radio Regulations (RR));

*b)* that there is a need to prevent harmful interference to the AMS(R)S;

*c)* that the types of radiation which can cause harmful interference can differ widely depending on the particular technical and operational characteristics of the services involved;

*d)* that it may not be possible in some cases to identify in detail the characteristics of the interfering radiation;

*e)* that the radiations from potential sources of harmful interference are, or should be, subject to certain standards;

*f)* that the practical control of harmful interference can only be effected by individual administrations;

*g)* that Contracting States of the International Civil Aviation Organization (ICAO) are under certain obligations relative to the Standards and Recommended Practices (SARPs) for AMS(R)S;

*h)* that RR No. **4.10** recognizes that safety services require special measures to ensure freedom from harmful interference;

*i)* that a safety service must take considerable precautions to ensure that any radio service sharing the same radio band is constrained sufficiently to leave an adequate margin under all likely circumstances;

*j)* that parts of the frequency bands allocated to the AMS(R)S are also allocated to the fixed service in certain countries (RR No. **5.359**) on a co-primary basis and also conditionally authorized for AM(R)S (RR No. **5.357**);

*k)* that Recommendation ITU‑R M.1234 was developed to recommend aggregate and single‑entry interference protection criteria for the AMS(R)S,

decides that the following Questions should be studied

1 What are the recommended methods of calculation of interference to the AMS(R)S?

2 How should the out-of-band emissions from other radio services and ISM operating in other bands be accounted for in the protection criteria of the AMS(R)S?

further decides

1 that the results of the above studies should be included in appropriate Recommendations and/or Reports;

2 that the above studies should be completed by 2027.

Category: S2