

## RESOLUTION 171 (WRC-19)

**Review and possible revision of Resolution 155 (Rev.WRC-19) and No. 5.484B in the frequency bands to which they apply**

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

*considering*

- a)* that the operation of unmanned aircraft systems (UAS) requires reliable control and non-payload communication (CNPC) links, in particular to relay air traffic control communications and for the remote pilot to control the flight, and that satellite networks may be used to provide these CNPC links beyond line-of-sight;
- b)* that UAS CNPC links relate to the safe operation of UAS and have to comply with certain technical and regulatory requirements, and will operate in accordance with international Standards and Recommended Practices (SARPs) and procedures established in accordance with the Convention on International Civil Aviation;
- c)* that the International Civil Aviation Organization (ICAO) is developing SARPs to ensure the technical aspects of using fixed-satellite service (FSS) satellites to support safe and reliable UAS CNPC links;
- d)* that there is urgency to conclude on the feasibility of use of the FSS frequency bands identified by Resolution **155 (Rev.WRC-19)** to support the safe implementation of UAS CNPC links in non-segregated airspace;
- e)* that the ITU Radiocommunication Sector (ITU-R) has made substantive progress on studies of technical, operational and regulatory aspects in relation to the implementation of Resolution **155 (Rev.WRC-19)**,

*recognizing*

- a)* that *invites the 2023 World Radiocommunication Conference* in Resolution **155 (Rev.WRC-19)** requests the 2023 World Radiocommunication Conference to consider the results of ITU-R studies referred to in Resolution **155 (Rev.WRC-19)** with a view to reviewing and, if necessary, revising Resolution **155 (Rev.WRC-19)**, and take necessary actions, as appropriate;
- b)* that, under No. **5.484B** adopted at WRC-15, reference is made to Resolution **155 (WRC-15)** in the Table of Frequency Allocations;
- c)* that the technical, operational and coordination conditions and processes for operation within FSS networks are to be maintained in any modifications of Resolution **155 (Rev.WRC-19)**;
- d)* that ICAO is responsible for defining the appropriate criteria and mitigation techniques, taking into account the safety-of-life aspects of the CNPC links, in order to operate UAS under the FSS in non-segregated airspace,

**RES171-2**

*resolves to invite the ITU Radiocommunication Sector*

1 to continue and complete in time for WRC-23 relevant studies of the technical, operational and regulatory aspects, based on the frequency bands mentioned in *resolves 1* of Resolution **155 (Rev.WRC-19)**, in relation to the implementation of Resolution **155 (Rev.WRC-19)**, taking into account the progress obtained by ICAO in the completion of SARPs on use of the FSS for the UAS CNPC links;

2 to review No. **5.484B** and Resolution **155 (Rev.WRC-19)** taking into account the results of the above studies,

*invites the 2023 World Radiocommunication Conference*

to revise, if necessary, No. **5.484B** and Resolution **155 (Rev.WRC-19)** and take other necessary actions, as appropriate, on the basis of the studies conducted under Resolution **155 (Rev.WRC-19)** and *resolves to invite the ITU Radiocommunication Sector* above,

*instructs the Secretary-General*

to bring this Resolution to the attention of the Secretary-General of ICAO.