RESOLUTION 775 (REV.WRC-23)

Power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz

The World Radiocommunication Conference (Dubai, 2023),

considering

a) that WRC-2000 made a number of different allocation changes to the frequency bands 71-76 GHz and 81-86 GHz based on the requirements known at the time;

b) that sharing conditions between the fixed service, mobile service and satellite services in the frequency bands 71-76 GHz and 81-86 GHz could not be fully developed at WRC-2000 due to lack of available information on these services at the time;

c) that, in the last two decades, there have been a number of significant technology advances and changes in network requirements in the fixed and mobile services, and the frequency bands 71-76 GHz and 81-86 GHz have become strategically important frequency bands for high-capacity fixed-service links, including backhaul for future mobile networks;

d) that there is now much more information available in the ITU Radiocommunication Sector (ITU-R) on the characteristics and deployment of fixed-service systems;

e) that there are an increasing number of satellite filings in the frequency bands 71-76 GHz and 81-86 GHz and some satellites are equipped with payload ready to utilize these bands,

noting

a) that the frequency band 81-86 GHz is allocated to the radio astronomy service on a primary basis, and that No. **5.149** applies;

b) that WRC-12 already addressed sharing and compatibility issues between the fixed and passive services in the frequency bands 71-76 GHz and 81-86 GHz and relevant adjacent frequency bands,

recognizing

a) that the frequency bands 71-76 GHz and 81-86 GHz are also allocated to other radiocommunication services and that those allocations are used by a variety of incumbent systems in many administrations, and that the protection of these services should be studied;

b) that for the determination of the incumbent services, the relevant provisions of the Radio Regulations in force apply;

c) that Article **21** and other provisions of the Radio Regulations currently do not contain the necessary technical and regulatory provisions to protect fixed and mobile service use in the frequency bands 71-76 GHz and 81-86 GHz;

d) that Resolution **750 (Rev.WRC-19)** already contains necessary provisions to protect passive services in the frequency bands and adjacent frequency bands from emissions of the fixed service in the frequency bands 71-76 GHz and 81-86 GHz, and there is no intention to change these provisions;

e) that there is no intention to remove the existing allocations or change the primary status of those allocations in Article **5** for the frequency bands 71-76 GHz and 81-86 GHz,

resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference

the appropriate studies to determine power flux-density (pfd) and equivalent isotropically radiated power (e.i.r.p.) limits to be included in Article **21** for satellite services (fixed-satellite service (FSS), mobile-satellite service (MSS) and broadcasting-satellite service (BSS)) to protect the current and planned fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz,

invites administrations

to participate actively in the studies by submitting contributions to ITU-R,

invites the 2027 world radiocommunication conference

to consider, based on the results of studies, the inclusion of pfd and e.i.r.p. limits in Article **21** for the FSS, MSS and BSS to protect the current and planned fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz.