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RESOLUTION 776 (WRC-19)

Conditions for the use of the frequency bands 71-76 GHz and 81-86 GHz by stations in the satellite services to ensure compatibility with passive services

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

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 the frequency band 71-76 GHz is also allocated to the fixed-satellite service (FSS) (space-to-Earth) and the mobile-satellite service (MSS) (space-to-Earth) and the frequency band 74-76 GHz is allocated to the broadcasting-satellite service;
- c) that the frequency band 81-86 GHz is also allocated to the FSS and MSS (Earth-to-space);
- d) that the frequency bands 76-77.5 GHz, 79-81 GHz and 81-86 GHz are allocated to the radio astronomy service (RAS) on a primary basis;
- e) that the frequency band 86-92 GHz is allocated to the Earth exploration-satellite service (EESS) (passive), the space research service (SRS) (passive) and the RAS, and that No. **5.340** applies in this frequency band;
- f) that compatibility conditions between satellite services in the frequency bands 71-76 GHz and 81-86 GHz and passive services in the frequency bands and in adjacent frequency bands could not be fully developed at WRC-2000 due to lack of available information on satellite services at the time;
- g) that WRC-12 already addressed sharing and compatibility issues between the fixed service and passive services in the frequency bands 71-76 GHz and 81-86 GHz and relevant adjacent frequency bands;
- h) that Resolution **750 (Rev.WRC-19)** contains no provisions to protect the EESS (passive) in the frequency band 86-92 GHz from emissions of the space services in the frequency band 81-86 GHz;
- i) that Resolution **739 (Rev.WRC-19)** contains no provisions to protect the RAS in adjacent frequency bands from emissions of the space services in the frequency bands 71-76 GHz and 81-86 GHz,

recognizing

- a) that there are an increasing number of satellite filings in the frequency bands 71-76 GHz and 81-86 GHz;
- b) that Resolution **731 (Rev.WRC-19)** calls for consideration of sharing and adjacent-band compatibility between passive and active services above 71 GHz;

c) 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;

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

resolves to invite the ITU Radiocommunication Sector

to conduct the appropriate studies to determine the technical conditions for satellite services in the frequency band 81-86 GHz in order to protect the EESS (passive) and the SRS (passive) in the frequency band 86-92 GHz and the RAS in the frequency bands mentioned in *considering d)* and *e)* without unduly constraining satellite systems,

invites the 2027 World Radiocommunication Conference

to consider the results of studies and take necessary action,

invites administrations

to participate actively in the studies by submitting contributions to the ITU Radiocommunication Sector.