

RESOLUTION 761 (REV.WRC-19)

**Coexistence of International Mobile Telecommunications and the
broadcasting-satellite service (sound) in the frequency band
1 452-1 492 MHz in Regions 1 and 3**

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

noting

a) Recommendation ITU-R M.1459, on protection criteria for telemetry systems in the aeronautical mobile service and mitigation techniques to facilitate sharing with geostationary broadcasting-satellite (BSS) and mobile-satellite services in the frequency bands 1 452-1 525 MHz and 2 310-2 360 MHz;

b) that ITU Radiocommunication Sector (ITU-R) studies provide useful information on the power flux-density (pfd) level to protect BSS earth stations that could be used for coordination purposes,

recognizing

a) that the frequency band 1 452-1 492 MHz is allocated to the BSS (sound) and the mobile service on a primary basis;

b) that both the mobile service and the BSS (sound) have already been deployed or are being considered for deployment within the frequency band 1 452-1 492 MHz in Regions 1 and 3,

resolves

taking into account Nos. **5.346** and **5.346A**,

1 that the pfd at the Earth's surface produced by emissions from a geostationary space station in the BSS (sound) in the frequency band 1 452-1 492 MHz shall not exceed $-107 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ on the territory of any other country in Regions 1 and 3 (except for the territories of the countries listed in No. **5.342**);

2 that the limit in *resolves* 1 may be exceeded on the territory of any country in Region 1 or 3 whose administration has so agreed;

3 that the pfd limit defined in *resolves* 1 does not apply to frequency assignments to the BSS (sound) in the frequency band 1 452-1 492 MHz for which complete Appendix 4 coordination or notification information was received prior to 28 October 2019 and for which the date of bringing into use or bringing back into use is prior to 1 January 2024 or the regulatory time-limit as specified in Nos. **11.44** and **11.49**, as appropriate, whichever comes earlier;

4 that, in the territories of countries listed in No. **5.342**, the pfd limit defined in *resolves* 1 and pfd coordination threshold in *resolves* 5 do not apply and the BSS (sound) is subject to coordination under No. **9.11**;

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5 that, as an exception to No. **9.6.3**, No. **9.11** shall apply, in addition to the pfd limit set forth in *resolves* 1, with respect to the territories of those countries of Region 3 and those listed in No. **5.346** which use frequency assignments with the nature of service “IM”, and the following pfd coordination threshold values shall be used:

–131.3 dB(W/m²) in 1 MHz for angles of arrival $0^\circ \leq \delta \leq 5^\circ$ above the horizontal plane;

–131.3 + 16/20($\delta - 5$) dB(W/m²) in 1 MHz for angles of arrival $5^\circ \leq \delta \leq 25^\circ$ above the horizontal plane;

–115.3 dB(W/m²) in 1 MHz for angles of arrival $25^\circ \leq \delta \leq 90^\circ$ above the horizontal plane;

6 that the Radiocommunication Bureau (BR) shall apply the coordination threshold identified in *resolves* 5 above in the application of No. **9.11** to identify potentially affected administrations for frequency assignments to stations in the BSS (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3 for which complete Appendix 4 coordination information is considered as having been received after 23 November 2019;

7 that, before an administration in Region 1 or 3 brings into use an International Mobile Telecommunications (IMT) system in the frequency band 1 452-1 492 MHz, the administration shall ensure that the pfd produced by any IMT transmitting station which uses frequency assignments with the nature of service “IM” at 3 m above the ground for any point at the border of the territory of the notifying administration of a BSS (sound) network in this frequency band does not exceed –154 dB(W/(m² · 4 kHz)) for more than 20 per cent of the time, unless otherwise agreed between the administrations, No. **9.19** also applies;

8 that, for the territories of the countries listed in No. **5.342**, the pfd limit defined in *resolves* 7 does not apply and the frequency assignments with the nature of service “IM” are subject to coordination under No. **9.21**,

instructs the Director of the Radiocommunication Bureau

1 not to examine the pfd limit set forth in *resolves* 1 under No. **9.35** and issue a qualified favourable finding with respect to No. **9.35**, but to perform the full regulatory examination under No. **11.31**, including the review of any qualified favourable findings;

2 in applying *resolves* 5 at the coordination stage, to check conformity with the pfd value contained herein during the examination under No. **9.36**:

– if the value is met on the territory of countries which use frequency assignments with the nature of service “IM”, BR shall not identify such administrations with which coordination may need to be effected;

– if the value is exceeded, BR shall identify such administrations with which coordination may need to be effected and in such cases publish the administrations with an additional remark “IM” under No. **9.11**;

3 to assist administrations notifying frequency assignments to the BSS (sound) by informing each administration where coordination is required and to inform them that coordination is requested under No. **9.11** and that No. **9.52C** applies in the application of *resolves* 5;

4 to investigate under No. **13.6** the technical characteristics and operational parameters of assignments to the BSS (sound) in the frequency band 1 452-1 492 MHz for which the notification information was submitted before 23 November 2019 and which were brought into use by that date;

5 to investigate under No. **13.6** the technical characteristics and operational parameters of assignments to base stations in the frequency band 1 452-1 492 MHz identified for IMT in the country submitting the notice with the nature of service “IM” in Regions 1 and 3 for which the notification information was submitted and which were brought into use before 23 November 2019.

