

UPDATES to the

Rules of Procedure

(Edition of 2025)

Approved by the Radio Regulations Board*

Revision (Circular No.)	Date	Part	AR/AP	RR No. or other reference	Pages to be removed	Pages to be inserted
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PART B

SECTION B6

Rules concerning criteria for applying the provisions of No. 9.36 to a frequency assignment in the terrestrial services whose allocation or identification is governed by Nos. 5.292, 5.293, 5.295, 5.295A, 5.296A, 5.297, 5.307A, 5.308, 5.308A, 5.309, 5.323, 5.325, 5.326, 5.341A, 5.341C, 5.346, 5.346A, 5.429F, 5.430A, 5.431A, 5.431B, 5.432B, 5.434A, 5.457F, 5.480A and 5.553A¹

1 The identification of the administrations with which coordination may need to be effected is based on the characteristics of the assignment that is subject to the procedure of No. 9.21 and the worst-case assumptions relating to the propagation characteristics and other technical parameters. These worst-case assumptions were developed on the basis of the information contained in various sources (GE06 Regional Agreement, ITU-R Recommendations and Reports), since the Radiocommunication Bureau has no Technical Standards for application in several frequency bands above 28 MHz.

2 For identification of the administrations whose agreement may need to be obtained, in the context of the provisions of Nos. 5.292, 5.293, 5.295, 5.295A, 5.296A, 5.297, 5.307A, 5.308, 5.308A, 5.309, 5.323, 5.325, 5.326, 5.341A, 5.341C, 5.346, 5.346A, 5.429F, 5.430A, 5.431A, 5.431B, 5.432B, 5.434A, 5.457F, 5.480A and 5.553A, the following criteria are applied:

2.1 the *coordination distance concept* is applied with respect to the services that are allocated according to Article 5 (these services are indicated in the Table below under the heading “Protected service”);

¹ WRC-23 deleted the reference to No. 9.21 from the modified Nos. 5.429D and 5.434 as explained in [Circular Letter CCRR/73](#).

TABLE 1 (MOD RRB26/530)

Applicability of No. 9.21

Footnote	Frequency band (MHz)	Allocated service in the frequency band or portions thereof, and subject to No. 9.21	Protected service
5.292 ¹	470-512	FS, MS	BS, MS
5.293 ¹	470-512 and 614-806	FS, MS	BS, MS
	645-806	FS, MS	ARNS
5.295	470-608	LMS (IMT)	BS, FS, MS
5.295A ³	470-694	LMS, MMS	BS, LMS, MMS
	606-614	LMS, MMS	RAS
	645-694	LMS, MMS	ARNS
5.296A	470-698	LMS (IMT)	BS, FS, MS
	585-610	LMS (IMT)	RNS
5.297	512-608	FS, MS	BS, MS
5.307A	614-694	LMS, MMS	BS, LMS, MMS
	645-694	LMS, MMS	ARNS
5.308	614-698	MS	BS, MS
5.308A	614-698	MS (IMT)	BS, MS
	645-698	MS (IMT)	ARNS
5.309 ¹	614-806	FS	BS, MS
5.323	862-960	ARNS	FS, MS
5.325 ¹	890-942	RLS	ARNS, FS, MS
5.326 ¹	903-905	LMS, MMS	FS, LMS
5.341A ²	1 429-1 452	LMS (IMT)	AMS
	1 492-1 518		
5.341C	1 429-1 452	LMS (IMT)	AMS
	1 492-1 518		
5.346 ²	1 452-1 492	LMS (IMT)	AMS
5.346A	1 452-1 492	LMS (IMT)	AMS
5.429F	3 300-3 400	LMS (IMT)	RLS
5.430A	3 400-3 600	LMS, MMS	FS, FSS, LMS, MMS
5.431A and 5.432B ¹	3 400-3 500	LMS, MMS	FS, FSS, LMS, MMS
5.431B	3 400-3 600	LMS (IMT)	FS, FSS, LMS, MMS
5.434A	3 600-3 800	LMS, MMS	FS, FSS, LMS, MMS
5.457F	6 425-7 125	LMS (IMT)	FS, MS
5.480A	10 000-10 500	LMS (IMT)	RLS, FS
5.553A	45 500-47 000	LMS (IMT)	AMS, RNS

¹ Different category of service.

² For frequency assignments subject to this provision the No. 9.21 procedure does not apply to those administrations whose territories are outside of the distances specified in the corresponding Rules of Procedure on No. 5.341A and No. 5.346.

³ Secondary service.

2.2 The *case-by-case* verification is performed for the assignments submitted under the procedure of No. **9.21**. This verification consists in determining the distance from the location of a station subject to No. **9.21** to the border of a neighbouring country*. In case this distance is shorter than the respective coordination distance, the administration of this neighbouring country is identified as affected.

3 In the calculation of the coordination distances the following approach is used:

3.1 For the protection of the broadcasting (television) service in the frequency band 470-806 MHz, from the radio services indicated in Column 3 of Table 1, in the context of the provisions of Nos. **5.292**, **5.293**, **5.295**, **5.296A**, **5.297**, **5.308**, **5.308A** and **5.309**, the coordination distances are calculated using propagation curves of Recommendation ITU-R P.1546-5 for 1% of time and 50% of locations with the coordination trigger field strengths produced at a height of 10 m above ground level as provided in the GE06 Agreement and given in Table 2.

TABLE 2
Coordination trigger field strengths for protection of BS

Service to be protected	Trigger field strength (dB(μV/m))		
	470-582 MHz	582-718 MHz	718-806 MHz
BS	18	20	22

3.1*bis* For the protection of the broadcasting (television) service in the frequency band 470-694 MHz in the context of the provisions of Nos. **5.295A** and **5.307A**, the coordination distances are calculated at a height of 10 m above ground level at the border of the territory of any other administration, using the propagation curves provided in the GE06 Agreement at 1% of time and 50% of locations with the coordination trigger field strengths as provided in § 4.1.3.2 of Annex 2 to the GE06 Agreement and given in Table 2*bis*.

TABLE 2*bis*
Coordination trigger field strengths for protection of BS, in the context of Nos. **5.295A** and **5.307A**

Service to be protected	Trigger field strength (dB(μV/m))	
	470-582 MHz	582-694 MHz
BS	13.229	15.229

3.1*ter* For the protection of the aeronautical radionavigation service in the frequency bands between 645 and 942 MHz allocated by Nos. **5.312** and **5.323**, from the radiocommunication services indicated in Column 3 of Table 1, in the context of the provisions of Nos. **5.293**, **5.295A**, **5.307A**, **5.308A** and **5.325**, a coordination trigger distance of 450 km with respect to the borders of the neighbouring countries listed in Nos. **5.312** and **5.323** is used.

3.2 For the protection of the fixed service in the frequency band 470-698 MHz from IMT, in the context of the provision of Nos. **5.295** and **5.296A**, the coordination trigger field strength of 13 dB(μV/m) produced at a height of 10 m above ground level is used.

* In this context, “neighbouring country” includes countries within the coordination distance defined in the Rules of Procedure.

3.2**bis** For the protection of the mobile service in the frequency band 470-806 MHz, in the context of the provisions of Nos. **5.292**, **5.293**, **5.295**, **5.295A**, **5.296A**, **5.297**, **5.307A**, **5.308**, **5.308A** and **5.309**, the following coordination trigger field strengths shall apply:

10 dB(μ V/m), produced in a reference bandwidth of 8 MHz at a height of 10 m above ground level, for the protection of receiving land stations; and

27 dB(μ V/m), produced in a reference bandwidth of 8 MHz at a height of 1.5 m above ground level, for the protection of receiving mobile stations.

The corresponding coordination distances shall be determined using the propagation curves given in Recommendation ITU-R P.1546-5, for 10% of time and 50% of locations. (ADD RRB26/530)

3.3 For the protection of the radionavigation services in the frequency band 585-610 MHz from IMT, in the context of the provision of No. **5.296A**, the coordination distances are calculated using propagation curves of the Recommendation ITU-R P.1546-5 for 10% of time and 50% of locations with the trigger field strength 13 dB(μ V/m), as given in the GE06 Agreement, produced at height of 10 m above ground level.

3.4 For the protection of the fixed and mobile services, from the radionavigation and radiolocation services, in the context of the provisions of Nos. **5.323** and **5.325**, the propagation curves from Recommendation ITU-R P.528-5 are used in connection with the following data: (MOD RRB26/530)

Minimum field strength to be protected (FX): 30 dB(μ V/m), $PR = 8$ dB.

3.5 For the protection of the fixed and land mobile services in the frequency band 903-905 MHz, from the land mobile and maritime mobile services, in the context of the provisions of No. **5.326**, the coordination distances are calculated using the propagation curves of the Recommendation ITU-R P.1546-5 for 10% of time and 50% of locations with the coordination trigger of 17 dB (μ V/m) produced at the height of 10 m above ground level. (MOD RRB26/530)

3.6 For protection of ground-based stations in the aeronautical mobile service in the frequency band 1 429-1 518 MHz from IMT, in the context of the provisions of Nos. **5.341A**, **5.341C**, **5.346** and **5.346A**, the coordination distances are calculated using the propagation curves given in Recommendation ITU-R P.1546-5 for 10% of time and 50% of locations with the coordination trigger power flux density of -181 dB(W/m²) within 4 kHz of reference bandwidth produced at the height of 10 m above ground level as given in Recommendation ITU-R M.1459-0.

For protection of stations on-board aircraft in the aeronautical mobile service, the coordination distance of 450 km is used.

3.7 For protection of the radiolocation service in the frequency band 3 300-3 400 MHz from IMT in the context of the provisions of No. **5.429F**, the coordination distance is contained in Table 3.

TABLE 3

**Coordination distance for protection of the RLS
(from the IMT system, effective antenna height 30 m)
in the frequency band between 3 300-3 400 MHz**

Footnote	Frequency range (MHz)	Allocated service (application) (No. 9.21)	Protected service	Coordination distance (km)
5.429F	3 300-3 400	LMS (IMT)	RLS	616

NOTE – The coordination distance was calculated using the propagation curves of Recommendation ITU-R P.528-5 for 1% of time and 50% of locations with the interference level of -107 dBm for protection of the airborne radar at the height of 10 000 m derived from Recommendation ITU-R M.1465-3. A reference IMT station was assumed as having effective isotropic radiated power (e.i.r.p.) of 31 dBW and a bandwidth of 10 MHz as used in Report ITU-R M.2292-0. (MOD RRB26/530)

3.8 For the protection of the fixed, mobile, except aeronautical mobile, and fixed-satellite services in the frequency bands between 3 400 MHz and 3 800 MHz from the mobile, except aeronautical mobile, service in the context of the provisions of Nos. **5.430A**, **5.431A**, **5.432B** and **5.434A** and from IMT in the context of the provisions of No. **5.431B**, the power flux density of -154.5 dB(W/(m²·4 kHz))² produced at the height of 3 m above ground level is used. (MOD RRB26/530)

Based on the above pfd value the coordination distances are calculated using Recommendation ITU-R P.452-18 at 20% of time with a smooth Earth terrain profile.

3.9 For the protection of stations of the aeronautical mobile and radionavigation services in the frequency band 45.5-47 GHz from IMT systems in the context of the provision of No. **5.553A**, the coordination distance is contained in Table 4.

² This value was decided by WRC-07 based on the protection of a typical earth station in the fixed-satellite service.

TABLE 4

**Coordination distance for protection of the AMS and RNS
from the IMT systems in the frequency band between 45.5-47 GHz**

Footnote	Frequency range (GHz)	Allocated service (application) (No. 9.21)	Protected service	Coordination distance (km)
5.553A	45.5-47	LMS (IMT)	AMS, RNS	65

Note: The coordination distance was calculated using a method based on Recommendation ITU-R P.676-12 for atmospheric attenuation in addition to Recommendation ITU-R P.525-4 for free space loss. The protection criteria (I/N) – 6 dB, receiver antenna gain 27 dBi and noise figure 4 dB were taken from Recommendation ITU-R M.2115-0 for the aeronautical mobile service airborne station in the frequency band 45.5-47 GHz. The maximum e.i.r.p. density value of 25.2 dB(W/200 MHz) was used for the IMT base station. This value was taken from ITU-R studies conducted during preparations for WRC-19 agenda item 1.13.

3.10 For the protection of stations in the radioastronomy service in the frequency band 606-614 MHz from the radio services indicated in Column 3 of Table 1, in the context of the provisions of No. **5.295A**, coordination trigger distances of 1 053 km for a base station in the mobile service and 445 km for a land mobile station in the mobile service are used with respect to the border of a neighbouring country.

3.11 For the protection of the fixed and mobile services in the frequency band 6 425-7 125 MHz from IMT, in the context of the provisions of No. **5.457F**, a coordination trigger distance of 200 km with respect to the border of a neighbouring country is used.

3.12 For the protection of stations in the fixed and radiolocation services in the frequency band 10-10.5 GHz from IMT as indicated in Column 3 of Table 1, in the context of the provisions of No. **5.480A**, a coordination trigger distance of 500 km for IMT stations of Mexico with respect to the border of the United States is used.