

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
1 See CR/530	April 2026	B6			2 4-6	2(rev.1) 4(rev.1)-6(rev.1)
		Table of content			3	3(rev.1)
2 See CR/532	July 2026	A1	AR05	5.564A and 5.565	39	40(rev.2)-41(rev.2)
			AR11	11.28.1 11.43A	5 24	5(rev.2) 24(rev.2)
			AR21 Resolution 679 (WRC-23)	21.16	3 —	3(rev.2)-5(rev.2) 1(rev.2)
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* The new Rules or modifications to the existing Rules of Procedure take effect immediately or as otherwise indicated.

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5.538

For uplink power control beacons, this provision sets an e.i.r.p. limit “*in the direction of adjacent satellites on the geostationary-satellite orbit*”.

The Board is of the opinion that the intention of this provision is to protect parts of the GSO arc adjacent to the satellite under examination in the direction “laterally tangential to the GSO at the position of the network under examination.”

5.543

The Board concluded that this provision is an additional allocation to the Earth exploration-satellite service for inter-satellite links. The use of the words “*telemetry, tracking, and control purposes*” leads the Board to understand that the use is limited to space operation.

5.554

This provision does not provide additional allocation for the FSS in the frequency bands specified therein. It authorizes links between land stations at specified fixed points within the MSS or radionavigation-satellite service. A land station in the context of the latter two services means a land earth station, which, in accordance with its definition, is a feeder-link earth station. Therefore, a space or earth station in the FSS (class of station EC or TC) is not authorized in the frequency bands listed in No. **5.554** (except in the band 123-130 GHz where there is an FSS allocation) and links between specific (as opposed to typical) feeder-link earth stations (e.g. class of station VA, or TI, or the like) are authorized within the MSS or radionavigation-satellite service.

5.556

There is no allocation to radio astronomy in the bands listed in this provision. The Board concluded that the words “*national arrangements*” are referring to arrangements to be made in each country. These arrangements are not required to be communicated to the Bureau. Notifications of frequency assignments to radio astronomy stations in these bands will be considered by the Bureau not to be in conformity with the Table of Frequency Allocations.

5.564A and 5.565

(ADD RRB26/532)

1 Since the frequency range 275-3 000 GHz is not allocated to any radiocommunication service and Nos. **5.564A** and **5.565** do not create frequency allocations, the Board decided that, when recording frequency assignments in this range, the finding concerning the conformity with the Radio Regulations is unfavourable with respect to No. **11.31** (symbol 13A1 = N) independently of the compliance with Nos. **5.564A** and **5.565**. No examination with respect to Nos. **11.32**, **11.32A** and **11.33** is performed and no findings are formulated (consequently, the symbol 13A of the frequency assignment is N--).

2 If the frequency assignment complies with Nos. **5.564A** or **5.565** then it will be recorded with the following symbols:

- the symbol used in column 13B1 (Reference to a provision of the Radio Regulations) will be “5.564A” or “5.565”, respectively;
- the symbol used in column 13B2 (Remarks concerning Findings) will be U (a symbol created for this purpose and described in the Preface as follows: “This frequency assignment is recorded in the Master International Frequency Register (MIFR) for information only, following its notification in the frequency bands that are not allocated to any radiocommunication service under Article 5 of the Radio Regulations, but identified for certain service applications in footnote RR **5.564A** or RR **5.565**.”);
- column 13B3 (Date relating to a review to be made) will be left blank since no date has been determined to review Nos. **5.564A** or **5.565** by a WRC.

3 If the frequency assignment does not comply with the identification in either of the footnotes, the finding formula for the frequency assignment will be:

N-- for 13A1, 13A2 and 13A3;

X/5.564A or X/5.565 for column 13B1

Finding remark “Return to ADM” in column 13C

And it will be returned to the notifying administration under No. **11.36**.

4 If the notifying administration insists on its recording, it will be recorded under:

N-- for 13A1, 13A2 and 13A3;

“X/5.564A” or “X/5.565” for column 13B1;

W for column 13B2 (W is a symbol created for this purpose and described in the Preface as follows: “This frequency assignment is recorded in the Master International Frequency Register (MIFR) for information only, following its notification in the frequency bands that are not allocated to any radiocommunication service under Article 5 of the Radio Regulations, nor identified in footnote RR **5.564A** or RR **5.565**.”);

column 13B3 will be left blank.

Examples:

Frequency assignments to stations in the fixed or land mobile services are completely within the frequency bands 275-296 GHz, 306-313 GHz, 318-333 GHz and 356-450 GHz, which are identified for these services:

recorded with the following finding: 13A: N--; 13B1: 5.564A; 13B2: U

Frequency assignments to stations in the fixed or land mobile services are completely or partially within the frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz, which are not identified for these services:

returned to the notifying administration with the following finding: 13A: N--; 13B1: X/5.564A; 13B2: -; 13C: Return to ADM

If the notifying administration resubmits the notice for its recording in the MIFR for information only:

recorded with the following finding: 13A: N--; 13B1: X/5.564A, 13B2: W

Frequency assignments to stations in the radio astronomy service completely within the frequency bands 275-323 GHz, 327-371 GHz, 388-424 GHz, 426-442 GHz, 453-510 GHz, 623-711 GHz, 795-909 GHz and 926-945 GHz, which are identified for this service:

recorded with the following finding: 13A: N--; 13B1: 5.565; 13B2: U

Frequency assignments to stations in the Earth exploration-satellite service (passive) or the space research service (passive) completely within the frequency bands 275-286 GHz, 296-306 GHz, 313-356 GHz, 361-365 GHz, 369-392 GHz, 397-399 GHz, 409-411 GHz, 416-434 GHz, 439-467 GHz, 477-502 GHz, 523-527 GHz, 538-581 GHz, 611-630 GHz, 634-654 GHz, 657-692 GHz, 713-718 GHz, 729-733 GHz, 750-754 GHz, 771-776 GHz, 823-846 GHz, 850-854 GHz, 857-862 GHz, 866-882 GHz, 905-928 GHz, 951-956 GHz, 968-973 GHz and 985-990 GHz, which are identified for these services:

recorded with the following finding: 13A: N--; 13B1: 5.565; 13B2: U

All other cases:

returned to the notifying administration with the following finding: 13A: N--; 13B1: X/5.565; 13B2: -; 13C: Return to ADM.

11.28

Comparison of data with those submitted under Article 9

Number **11.28** does not refer to the need to compare the notified characteristics with those published in the Special Sections for advance publication, for coordination, and for results/status of the coordination. A frequency notice submitted under No. **11.2** or **11.9** whose characteristics differ from those published in a Special Section necessarily requires consideration by the Bureau for appropriate actions. The following actions shall be taken:

- 1) The date of bringing into use of frequency assignments to a space station shall be compared with the date of receipt of the relevant complete information under No. **9.1** or **9.2** in the case of satellite networks or systems not subject to Section II of Article **9** or under No. **9.1A** in the case of satellite networks or systems subject to Section II of Article **9**. In the case that this period exceeds seven years, the notice is returned to the notifying administration with a recommendation to restart the Article **9** procedure.
- 2) When the notified characteristics are different from those published in the Special Section relating to the advance publication submitted by an administration or automatically generated by the Bureau the need to re-apply the Article **9** procedure shall be examined under No. **9.2**. If required, the notice is returned to the notifying administration with a recommendation to restart the Article **9** procedure.
- 3) When the notified characteristics are different from those published in the Special Section relating to the advance publication of the coordination request as appropriate, the difference is assumed to have resulted from coordination.
- 4) For practical reasons, the Bureau could not systematically undertake the comparison of coordination information contained in the notice form submitted under No. **11.2** or **11.9** and that from the voluminous correspondence from the coordination phase. The Board thus decided that the No. **11.32** examinations of the Bureau shall be based on the coordination information available from the notice forms (Boxes A5/A6). This information being the most up to date for the case under examination, the Bureau shall consider the notified data of the network submitted in the notice form as coordinated with those countries mentioned in Boxes A5/A6.

11.28.1

(ADD RRB26/532)

This provision intends to allow Administrations to consult each other in case the notification of a satellite system not subject to coordination under Section II of Article **9** contains changes to the characteristics initially submitted in the advance publication of information. However, this provision does not address modifications submitted under No. **11.43A** to the notified characteristics of such a system.

The Board therefore decided that, when an administration that believes modifications submitted under No. **11.43A** to the already recorded characteristics of satellite networks or systems not subject to the coordination procedure under Section II of Article **9** may cause unacceptable interference to its existing or planned satellite networks or systems provides comments to the notifying administration with a copy to the Bureau, the Bureau shall publish any such comments received on its website. The Board also noted that both administrations shall thereafter cooperate to resolve any difficulties.

3 The reference in Nos. **11.44**, **11.44.1**, **11.47** and **11.48** to the seven year regulatory period should be considered as five years from the date of receipt by the Bureau of the notification of the modification referred to in No. **11.43A**. (See also the comments made under the Rules of Procedure concerning No. **11.44B**).

4 Modification of an earth station by changing the associated space station or the associated beam so far as No. **11.32** is concerned is covered in the comments under the Rules of Procedure concerning No. **11.32** in § 2.2.2 and 2.2.3.

5 When the modification of a frequency assignment to an earth station is examined in application of Nos. **9.15**, **9.17** and **9.17A**, the coordination distance is calculated in each azimuth and the coordination under Nos. **9.15**, **9.17** and **9.17A** is required only with those countries on whose territory the coordination distance is increased owing to the modification (see comments under the Rules of Procedure concerning No. **9.27** (§ 3.1 and 3.2)).

6 When the modification of a frequency assignment is examined in application of No. **9.19**, the power flux-density of the transmitting station (terrestrial station or FSS earth station) with modified characteristics is calculated at the edge of the BSS service area and the coordination under No. **9.19** is required only with those countries where the power flux-density limit at the edge of the BSS service area is increased as the result of modification of characteristics of the transmitting station and is above the permissible level (see comments under the Rules of Procedure concerning No. **9.27** (§ 3.1 and 3.2)).

7 For satellite networks or systems not subject to Section II of Article 9, see also the Rules of Procedure on No. **11.28.1**. (ADD RRB26/532)

11.43B

1 This provision specifies that a change in the characteristics shall be examined when appropriate with respect to Nos. **11.32** to **11.34**, as appropriate.

1.1 In the case of the examination of space networks under No. **11.32** or **11.32A**, the comments under the Rules of Procedure concerning No. **11.43A** indicate the cases which should not be considered as modifications but as first notifications (with new date of receipt). These examinations should be carried out by checking the application of § 6 *a*) to 6 *c*) of Appendix 5 (see also §§ 2.3 and 2.4 *c*) of the Rules of Procedure concerning No. **9.27**). In cases where there is no calculation method and/or criteria to check the application of these provisions, the Bureau shall treat these modifications as new notifications of assignments. Number **11.43B** refers to an increase in the probability of harmful interference. The probability of harmful interference (*C/I*) is calculated in the examination of Nos. **11.32A** and **11.33** only. The examination of No. **11.32** is made using the threshold/condition specified in Appendix 5. When there are no technical criteria in the threshold/condition specified in Appendix 5, Administrations may provide an analysis using appropriate calculation methods and/or criteria (including those developed in the ITU-R) to the Bureau for verification of the applicability of §§ 6 *a*) to 6 *c*) of Appendix 5 for the examination under No. **11.32**.

1.2 It should be noted that in the examination under No. **11.32A**, assignments published under No. **9.38** or **9.58** but not yet notified are also taken into account. Therefore, for practical reasons, in application of this provision, these assignments shall be also taken into account in addition to assignments already recorded in the Master Register.

3 In cases where frequency assignments in steerable beams of a satellite network, except the frequency assignments under the Appendix **30B**, exceed the applicable hard pfd limits, the Bureau will establish a favourable finding only if:

- a) there is at least one position of the steerable beam where the applicable pfd limits are met without any reduction of the notified power density; and
- b) the administration states that the applicable pfd limits will be met by applying a method, the description of which should be submitted to the Bureau. One possible example of such a method is described in the Annex to this Rule.

4 In addition to § 3 above, if frequency assignments to non-geostationary satellite networks or systems operating in the mobile-satellite service (space-to-Earth) in the frequency band 1 518-1 525 MHz exceed the pfd limits of Article **21** that apply to the territory of the United States in Region 2 between the longitudes 71° W and 125° W, the Bureau will establish a favourable finding only if the notifying administration provides a commitment that the space station will not transmit in this frequency band whenever it is visible from any location within the abovementioned territory of the United States or if it provides a commitment that the applicable pfd limits will be met by applying a method, the description of which is submitted to the Bureau. The Bureau shall publish the above information received from the notifying administration in the coordination requests or in the Part I-S notification, as appropriate.
(ADD RRB26/532)

Note: WRC-23 took the following decision for the application of Article **21** of the Radio Regulations, in regard to the pfd scaling factor to be applied to non-GSO FSS constellations with 1 000 or more space stations operating in the 17.7-19.3 GHz frequency band, see item 14.2 of the Minutes of the 13th Plenary meeting, Doc. [CMR23/528](#):

*“WRC-23 revised RR No. **21.16.6** and instructs the Bureau to issue qualified favourable findings under RR Nos. **9.35/11.31** when examining compliance of frequency assignments to non-GSO FSS satellite systems with RR Article **21** pfd limits applicable in the frequency band 17.7-19.3 GHz if the notifying administration requested it to do so. WRC-23 determined that this practice would also apply to non-GSO FSS satellite systems for which coordination requests have been received from 16 December 2023 until the entry into force of the Final Acts of WRC-23. WRC-23 also instructs the Bureau to review these findings, as well as those issued from 23 November 2019 until the last day of WRC-23, once the pfd examination software incorporates the decision of WRC-23 on No. **21.16.6**. See also Document 420.”*

ANNEX 1

Method to be applied to meet the regulatory pfd limits when steerable beams are used

Where steerable beams are used in satellite networks, operational measures may be needed to adjust space station transmit power density so that the applicable regulatory pfd limits for specific beam positions are met. In such cases, administrations may apply the following method for each specific steerable beam position and for each assignment in such beam:

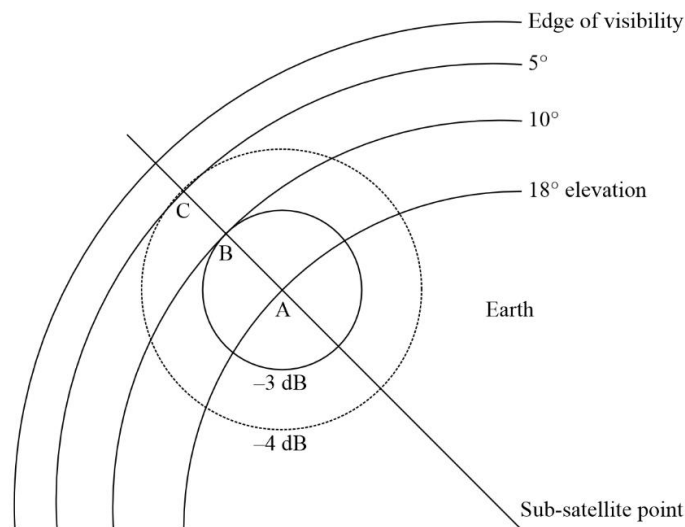
Step 1: For a specific beam position, produce a plot of beam gain contours on a map of the Earth that shows equal elevation lines.

Step 2: Using the notified power density of the particular assignment, determine if pfd produced at beam peak or any other point on the Earth exceeds the applicable pfd limits. If so, determine the maximum amount of pfd excess (i.e. find the point with largest excess over the limit).

Step 3: Adjust, i.e. reduce, the operational power density of the assignment by at least the maximum amount determined in Step 2 above, so that pfd produced on any point on the Earth meets the applicable pfd limit.

For non-GSO satellites in elliptical orbits, its distance towards points on the Earth also changes as the satellite travels along the orbit. To find the maximum amount of pfd excess in this case, Steps 1 and 2 above need to be repeated for various orbital positions of the satellite.

The application of this method is illustrated in the following example. Assume that the steerable beam is positioned as shown in the figure below.



The beam peak is at point A and its elevation angle can be computed using geometrical methods. The -3 dB contour touches the 10° elevation line at point B, and the -4 dB contour touches the 5° elevation line at point C. For these points, pfd values, the applicable pfd limits and the excess over the limits (if any) are given in the Table below. Values are for frequencies above 15 GHz and the reference bandwidth is 1 MHz. The data in the Table show that at this particular steerable beam position it is necessary to reduce the notified power density by 2 dB to meet the regulatory pfd limit.

Beam name: **AAR** Emission: **11M7G7W--** Notified power density: **-55.7 dB(W/Hz)**

	Point A	Point B	Point C
Notified power density per Hz (dB(W/Hz))	-55.7		
Notified power density per 1 MHz (dB(W/MHz))	4.3		
Antenna gain towards a point (dBi)	50.0	47.0	46.0
e.i.r.p. towards a point (dB(W/1 MHz))	54.3	51.3	50.3
Path length (km)	39 532	40 584	41 125
Spreading loss (dB)	162.9	163.2	163.3
pfd produced at a point (dB(W/(m ² · 1 MHz)))	-108.6	-111.9	-113.0
21.16 pfd limit at a point (dB(W/(m ² · 1 MHz)))	-108.5	-112.5	-115.0
Excess over the pfd limit (dB)	–	0.6	2.0
Required reduction of power density to meet the limit (dB)	2.0		
Maximum power density to be used at this beam position (dB(W/Hz))	-57.7		

Rules concerning

RESOLUTION 679 (WRC-23) (ADD RRB26/532)

Use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz and 27.5-30 GHz by the inter-satellite service

To ensure a consistent application of Resolution **679 (WRC-23)**, the Board decided that the same action prescribed in *further resolves* 5 also applies to the Advance Publication Information submitted for a geostationary satellite network receiving in the frequency band 27.5-30 GHz or a non-geostationary satellite system receiving in the frequency bands 27.5-29.1 GHz and 29.5-30 GHz and transmitting in the frequency bands 18.1-18.6 GHz and 18.8-20.2 GHz. Accordingly, the Bureau shall return the Advance Publication Information to the notifying administration when no recorded frequency assignments in the fixed-satellite service with typical earth stations can be identified in the relevant frequency bands for the associated geostationary satellite network or non-geostationary satellite system, or when the Advance Publication Information is not submitted in accordance with Resolution **679 (WRC-23)**.
