

UPDATES to the

Rules of Procedure

(Edition of 2017)

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/424	November 2017	A1	AR11	11.14	4	4 (rev.1)
2 See CR/433	July 2018	A1	AR04	4.4	1-3	1(rev.2) - 3(rev.2)
		A1	Receivability ¹		1-2	1(rev.2) - 2bis(rev.2)
		A1	AR09 ²	9.11A-9.15	10	10(rev.2)
			AR09	9.27	21-24	21(rev.2) - 24(rev.2)
		A1	AR11	11.48	28	28(rev.2) - 28bis(rev.2)
		A1	AP30	5.2.2.2	15	15(rev.2)
			AP30A	5.2.2.2	12-13	12(rev.2) - 13(rev.2)
		A10 B3	GE06	5.2.2	13-14 3 6-10	13(rev.2) - 15(rev.2) 3(rev.2) 6(rev.2) - 10bis(rev.2)
		Table of content			1-2	1(rev.2) - 2(rev.2)
3 See CR/442	March 2019	A3	GE75		4	4(rev.3)
4 See CR/446	July 2019	A1	AR11 ³	11.31	8 10	8(rev.4) 10(rev.4)
		A2	ST61 ⁴	Art. 4	2	2(rev.4)
		A5	GE84 ⁴	Art. 4	1	1(rev.4)
5 See CR/451	October 2019	A1	AR05	5.458	19	19(rev.5)

Revision (Circular No.)	Date	Part	AR/AP	RR No. or other reference	Pages to be removed	Pages to be inserted
6 See CR/465	July 2020	A1	AR5	5.441B	17-18	17(rev.6) - 18
		A1	AR5	5.510	25-26	25(rev.6) - 26(rev.6)
		A1	Receivability		1(rev.2)	1(rev.6)
		A1	Notifying administration		–	2(rev.6) - 8(rev.6)
		A1	AR9		7-9, 12, 14	7(rev.6) - 9(rev.6), 12(rev.6), 14(rev.6)
		A1	AR9	9.19	18-19	18(rev.6) - 19(rev.6)
		A1	AR11	11.31	10(rev.4)	10(rev.6)
		A1	AP30A	2A.1.1	1	1(rev.6)
		A1	AP30A	Annex 4	18	–
		A1	AP30B	6.5	2	2(rev.6)
		A1	AP30B	6.6	3	3(rev.6)
		A1	AP30B	Annex 4	9	9(rev.6) - 10(rev.6)
			Table of content			1

* The new Rules or modifications to the existing Rules of Procedure take effect immediately or as otherwise indicated.

¹ Effective date of application of the Rule: 1 August 2018.

² Effective date of application of the Rule: 1 January 2017.

³ Effective date of application of the Rule: 1 January 2017.

⁴ Effective date of application of the Rule: 31 March 2020. This Rule will also apply retroactively to all plan modifications published in Part A.

TABLE OF CONTENTS

PART A

Section	Rules concerning	Page
A1	Article 1 of the RR	AR1-1/2
	Article 4 of the RR	AR4-1/3
	Article 5 of the RR	AR5-1/28
	Article 6 of the RR	AR6-1
	Receivability.....	Receivability-1/6
	Effective date of entry into force.....	Effective date of entry into force-1
	Notifying administration	Notifying administration-1/8
	Article 9 of the RR	AR9-1/32
	Article 11 of the RR	AR11-1/32
	Article 12 of the RR	AR12-1/2
	Article 13 of the RR	AR13-1/2
	Article 21 of the RR	AR21-1/4
	Article 22 of the RR	AR22-1
	Article 23 of the RR	AR23-1/2
	Appendix 4 to the RR.....	AP4-1/3
	Appendix 5 to the RR.....	AP5-1
	Appendix 7 to the RR.....	AP7-1
	Appendix 27 to the RR.....	AP27-1/2
	Appendix 30 to the RR.....	AP30-1/22
	Appendix 30A to the RR.....	AP30A-1/17
Appendix 30B to the RR	AP30B-1/10	
Resolution 1 (Rev.WRC-97)	RES1-1/2	
Resolution 49 (Rev.WRC-15)	RES49-1	
A2	Rules concerning the Regional Agreement for the European Broadcasting Area concerning the use of frequencies by the broadcasting service in the VHF and UHF bands (Stockholm, 1961) (ST61).....	ST61-1/2
A3	Rules concerning the Regional Agreement concerning the use by the broadcasting service of frequencies in the medium frequency bands in Regions 1 and 3 and in the low frequency bands in Region 1 (Geneva, 1975) (GE75)	GE75-1/6

Section		Page
A4	Rules concerning the Regional Agreement for the use of the band 535 to 1 605 kHz in Region 2 by the broadcasting service (Rio de Janeiro, 1981) (RJ81)	RJ81-1/5
A5	Rules concerning the Regional Agreement relating to the use of the band 87.5-108 MHz for FM sound broadcasting (Geneva, 1984) (GE84)	GE84-1
A6	Rules concerning the Regional Agreement relating to the planning of VHF/UHF television broadcasting in the African Broadcasting Area and neighbouring countries (Geneva, 1989) (GE89).....	GE89-1/3
A7	Rules concerning Resolution 1 of the RJ88 Conference and Article 6 of the RJ88 Agreement	RJ88-1/2
A8	Rules concerning the Regional Agreement concerning the MF maritime mobile and aeronautical radionavigation services (Region 1) (Geneva, 1985) (GE85-MM-R1)	GE85-R1-1/4
A9	Rules concerning the Regional Agreement concerning the planning of the maritime radionavigation service (radio-beacons) in the European Maritime Area (Geneva, 1985) (GE85-EMA).....	GE85-EMA-1/4
A10	Rules concerning the Regional Agreement relating to the planning of the digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz (Geneva, 2006) (GE06)	GE06-1/15

PART B

Section		Page
B1	(Not used)	
B2	(Not used)	
B3	Rules concerning calculation methodology for calculation of probability of harmful interference between space networks (<i>C/I</i> ratios)	B3-1/19
B4	Rules concerning calculation methodology and technical standards for determining the affected administrations and for assessing the probability of harmful interference in the bands between 9 kHz and 28 000 kHz.....	B4-1/25

- b) For the compatibility assessment between earth stations (transmitting ES of the FSS up-links and the receiving ES within the Plan allotment) the method defined in Appendix 7 will be used. The service areas defined in Appendix 30B will be extended by the coordination distance to form an “agreement area” within which a transmitting earth station of the FSS up-link has to be coordinated. For the calculation of the coordination distance the most up-to-date ITU-R Recommendation will be used.

2.2 Down-link FSS applications in the bands 10.7-10.95 GHz and 11.2-11.45 GHz (Appendix 30B, planned usage):

- a) As for the interference which is likely to be caused to FSS up-link from Appendix 30B down-link the same condition referred to in 2.1 a) above applies, i.e., in the examination of Appendix 30B Plan and List entries no account shall be taken of the FSS up-link assignments included in the MIFR with the above-mentioned symbol.
- b) As for the interference which is likely to be caused to Appendix 30B down-link receiving earth stations from FSS up-link transmitting earth stations the same condition referred to in 2.1 b) above applies.

5.441B

(ADD RRB20/84)

This provision stipulates, *inter alia*, that before an administration brings into use an IMT station in the mobile service in the frequency band 4 800-4 990 MHz, it shall ensure that the power flux-density (pfd) produced by this station does not exceed $-155 \text{ dB(W/(m}^2 \cdot 1 \text{ MHz))}$ produced up to 19 km above sea level at 20 km from the coast, defined as the low-water mark, as officially recognized by the coastal State. Resolution 223 (Rev.WRC-19) applies.

Considering that this provision and Resolution 223 (Rev.WRC-19) do not specify the propagation model to be used for the calculation of the pfd produced by IMT stations in the band 4 800 -4 990 MHz, the Board decided that Recommendation ITU-R P.528-4, for 1% of time, is to be used for this calculation.

5.444B

1 This provision limits the use of the band 5 091-5 150 MHz by the aeronautical mobile service to two different applications. However, Appendix 4 does not contain data elements which would enable examination as to whether the notified frequency assignment is associated with any of these specific applications or with other applications in the aeronautical mobile service. As the Bureau has no means to make such differentiation, the Board decided that the Bureau shall make no examination of the notified frequency assignment to a station in the aeronautical mobile service from the view point of its conformity with this provision.

2 With respect to the submissions in the aeronautical mobile (R) service, including the ones referred to in the first indent of this provision, and given the indications in *resolves* 1 of Resolution **748 (Rev.WRC-15)**, the recording of any such assignment in the MIFR will be associated with the symbol “R” in column 13B2 (“*Finding observation*”) and with symbol “RS748” in column 13B1 (“*Finding reference*”). The Board also considered that the indications in *resolves* 3 of Resolution **748 (Rev.WRC-15)**, including the reference to No. **4.10**, are intended for administrations and the Bureau shall make no examination of frequency assignments from the view point of their conformity with the conditions set forth in *resolves* 3 of Resolution **748 (Rev.WRC-15)**.

3 With respect to the submissions related to aeronautical telemetry transmissions referred to in the second indent of this provision, and in addition to the considerations in § 1 of this Rule of Procedure which are also applicable for aeronautical telemetry applications, the Board considered that the indications in *resolves* 1 and in *resolves* 2 of Resolution **418 (Rev.WRC-15)** are intended for administrations and the Bureau shall make no examination of the notified frequency assignment to a station in the aeronautical mobile service from the view point of its conformity with the conditions set forth in Annex 1 to Resolution **418 (Rev.WRC-15)**.

5.446A

1 This provision stipulates that the use of the bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution **229 (Rev.WRC-12)**. Accordingly, Resolution **229 (Rev.WRC-12)** specifies that the use of these bands, by the mobile service, will be for the implementation of wireless access systems (WAS) including radio local area networks (RLAN) (see *resolves* 1) and, in addition to this, it specifies the maximum e.i.r.p. levels for stations in the mobile service (see *resolves* 2, 4 and 6).

As far as the band 5 150-5 350 MHz is concerned, the situation is rather simple, given the fact that the provisions of Resolution **229 (Rev.WRC-12)** are applicable to all stations in the mobile, except aeronautical mobile, service, with the exception of cases referred to in No. **5.447**, which apply to the band 5 150-5 250 MHz and where other (e.g. less stringent) conditions may be established in the context of the application of the procedure of No. **9.21**.

On the other hand, the situation in the band 5 470-5 725 MHz is more complex, bearing in mind that other provisions are applicable to stations in the mobile, except aeronautical mobile, service (e.g. those indicated in Nos. **5.451**, **5.453** and in Table **21-2** of Article **21**), which are stipulating different conditions (e.g. power limits) than the ones indicated in Resolution **229 (Rev.WRC-12)**. Consequently, administrations referred to in No. **5.453** (for the band 5 650-5 725 MHz) and in No. **5.451** (for the band 5 470-5 725 MHz) may implement other applications in the mobile, except aeronautical mobile, service, which are not necessarily WAS, subject to compliance with the conditions set forth in No. **5.451** and the power limits set forth in Table **21-2** of Article **21**.

2 Given the fact that, for the implementation of WAS, high deployment densities are expected, such implementation options could be adequately covered through notifications in the form of typical stations. The notification of terrestrial stations in the mobile, except aeronautical mobile, service in the form of typical stations is normally possible with no restrictions in the bands 5 150-5 350 MHz and 5 470-5 670 MHz in all countries, and in the band 5 670-5 725 MHz in the countries not mentioned in No. **5.453**. However, provision No. **11.21A**, in conjunction with Table **21-2**, does not provide for the possibility of notifying terrestrial stations in the mobile, except aeronautical mobile, service, in the form of typical stations, for the band 5 670-5 725 MHz, for the countries listed in No. **5.453**. The strict application of these provisions would mean that the countries listed in No. **5.453** cannot notify their WAS applications in the form of typical stations, even though they conform with the limits of Resolution **229 (Rev.WRC-12)**. The Board concluded that such a restricted interpretation of all the relevant provisions for the band 5 670-5 725 MHz, for the countries listed in No. **5.453**, would result in unnecessary burden for both the administrations listed in No. **5.453** and the Bureau. Consequently, the Board instructed the Bureau to accept notifications for mobile, except aeronautical mobile, stations, in the form of typical stations, from the administrations listed in No. **5.453**, provided that the maximum e.i.r.p. does not exceed 1 W, which implies that each typical station notice receivable in the band 5 670-5 725 MHz (with an e.i.r.p. of less than or equal to 1 W) is deemed to be part of a WAS.

5.523A

Provision No. **5.523A** obliges administrations which have communicated their GSO satellite systems in the bands 18.8-19.3 GHz and 28.6-29.1 GHz to the Bureau, prior to 18 November 1995, to “*cooperate to the maximum extent possible* to coordinate pursuant to No. **9.11A** with non-geostationary-satellite networks for which notification information has been received by the Bureau prior to that date, with a view to reaching results acceptable to all the parties concerned”. Since there is no basis on which the Bureau could formulate a regulatory finding in this respect, the Board decided on the following course of action:

Administration(s) responsible for the GSO satellite network, when notifying the assignments to the Bureau, shall include a statement indicating that the obligation “shall cooperate to the maximum extent possible” referred to in this provision has been fulfilled and the Bureau shall publish this information in its BR IFIC accordingly.

The above Rule of Procedure was to be applied by administrations and the Radiocommunication Bureau as of 14 July 1998.

**5.523B, 5.523C,
5.523D, 5.523E**

Provisions Nos. **5.523B**, **5.523C**, **5.523D** and **5.523E** provide information on the different constraints and procedures applying to the FSS in the frequency range 19.3-19.7 GHz. The Board studied the interrelationship between the different FSS usages and also vis-à-vis the terrestrial stations. The Tables relative to 19.3-19.6 GHz and 19.6-19.7 GHz bands below contain the Board’s conclusions on this matter.

Table 19.3-19.6 GHz

Coordination request (CR): Column vis-à-vis Row (7)	Non-GSO FSS ↑ (MSS feeder-link) (RR No.)	Non-GSO FSS ↓ (MSS feeder-link) (RR No.)	Non-GSO FSS ↓ (other) (RR No.)	GSO FSS ↓ (CR < 18.11.95) (RR No.)	GSO FSS ↓ (18.11.95 ≤ CR) (RR No.)	Terrestrial (RR No.)
Non-GSO FSS ↑ (MSS feeder-link)	9.12 (5.523B)	9.12 (5.523B/5.523D)	No CR (5.523D)	22.2 (5.523C)	9.12A (5.523B)	--- (5.523B)
Earth station	---	9.17A	9.17A	9.17A	9.17A	9.15
Non-GSO FSS ↓ (MSS feeder-link)	9.12 (5.523B/5.523D)	9.12 (5.523D)	No CR (5.523D)	22.2 (5.523D)	9.12A (5.523D)	--- pfd limits (5.523D)
Earth station	9.17A	---	---	---	---	9.15
Non-GSO FSS ↓ (other)	No CR (5.523D)	No CR (5.523D)	No CR (5.523D)	22.2 (5.523D)	22.2 (5.523D)	--- pfd limits (5.523D)
Earth station	9.17A	---	---	---	---	9.17
GSO FSS ↓ (CR < 18.11.95)	22.2 (5.523C)	22.2 (5.523D)	22.2 (5.523D)	9.7	---	--- pfd limits
Earth station	9.17A	---	---	---	---	9.17
GSO FSS ↓ (18.11.95 ≤ CR)	9.13 (5.523B)	9.13 (5.523D)	22.2 (5.523D)	9.7	9.7	--- pfd limits
Earth station	9.17A	---	---	---	---	9.17
Terrestrial	---	9.16 (5.523D)	9.18 (5.523D)	9.18	9.18	---

Rules concerning the Receivability of forms of notice generally applicable to all notified assignments submitted to the Radiocommunication Bureau in application of the Radio Regulatory Procedures*

1 Submission of information in electronic format

1.1 Space services

The Board noted the requirement for mandatory electronic filing and submission of comments/objections and requests for inclusion or exclusion specified in the *resolves* of Resolutions **55 (Rev.WRC-19)** and **908 (Rev.WRC-15)**. It also noted that capture and validation software had been made available to administrations by the Bureau, including software to submit information required in Annex 2 of Resolution **552 (Rev.WRC-19)** and in the Attachment to Resolution **553 (Rev.WRC-15)**. Accordingly, all information indicated in the *resolves* of Resolution **55 (Rev.WRC-19)**, in Annex 2 of Resolution **552 (Rev.WRC-19)** and in the Attachment to Resolution **553 (Rev.WRC-15)** under § 8 and § 9, shall be submitted to the Bureau in electronic format which is compatible with the BR electronic notice form capture software (SpaceCap and GIMS) and comments/objections software (SpaceCom)¹, using the ITU web interface “e-Submission of satellite network filings” available at <https://www.itu.int/itu-r/go/space-submission>. (MOD RRB20/84)

* **Note:** WRC-15 took the decision related to the RoP on the Receivability of forms of notice during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, with the approval of Doc. CMR15/416 in relation to Section 3.2.2.4.1 of Doc. 4 (Add2) (Rev1), as follows:

“For the submission of a request for coordination under No. 9.30 related to a non-GSO satellite network or system, the notice will be receivable only in the cases described below:

- i) satellite systems with one (or more than one) set(s) of orbital characteristics and inclination value(s) with all frequency assignments to be operated simultaneously; and,*
- ii) satellite systems with more than one set of orbital characteristics and inclination values with, however, a clear indication that the different sub-sets of orbital characteristics would be mutually exclusive; in other terms, frequency assignments to the satellite system would be operated on one of the sub-sets of orbital parameters to be determined at the notification and recording stage of the satellite system at the latest.”*

¹ Except comments submitted in accordance with §§4.1.7, 4.1.9, 4.1.10 of Article 4 of Appendix **30** and **30A** with respect to additional uses under Article 4 and use of the guardbands under Article 2A of those Appendices in Region 1 and Region 3.

1.2 Terrestrial services

Submission of frequency assignment/allotment notices for terrestrial services in the context of Articles **9, 11, 12** and Appendix **25** of the Radio Regulations and various regional agreements shall be made exclusively via the ITU web interface *WISFAT* (Web Interface for Submission of Frequency Assignments/allotments) available at <https://www.itu.int/ITU-R/go/wisfat/en>. It should also be noted that the Bureau has made available to administrations through the BR IFIC a software tool TerRaNotices for creating and validating notices by the Bureau. Additionally, an online validation tool is accessible via the ITU website at: <https://www.itu.int/ITU-R/terrestrial/OnlineValidation/Login.aspx>.

2 Receipt of notices (MOD RRB18/78)

It is incumbent on all administrations to meet deadlines established in the Radio Regulations and, accordingly, to take account of possible mail delays, holidays or periods during which ITU may be closed².

Having regard to the electronic submissions of notices and various means available for transmission of related correspondence, the Board has decided the following:

2.1 Electronic submissions of notices

- a) Notices submitted using “e-Submission of satellite network filings” for space services or via WISFAT for terrestrial services shall be recorded as received on the actual date of receipt, irrespective of whether or not that is a working day at the ITU/BR’s offices in Geneva.
- b) Notices submitted using “e-Submission of satellite network filings” for space services or via WISFAT for terrestrial services do not require any separate confirmation by telefax or mail.
- c) Receipt of notices related to space services shall be acknowledged immediately by ITU/BR e-mail. Receipt of notices related to terrestrial services is acknowledged immediately by a message sent by WISFAT automatically.

² The Radiocommunication Bureau shall inform administrations by circular letter at the beginning of each year, and as appropriate, about holidays or periods in which ITU may be closed in order to assist them in meeting their obligations.

Rules concerning the treatment of change of Notifying administration which acts as the notifying administration of a satellite network on behalf of a group of named administrations

9.1, 9.6.1, 11.15.1, AP30 (4.1.25, 4.1.3, 4.2.6, 5.1.1), AP30A (4.2.6, 4.1.25, 4.1.3, 5.1.2), AP30B (2.6, 6.1)

1 Change of Notifying Administration

Certain provisions of the Radio Regulations (Nos **9.1, 9.6.1, 11.15.1**, Appendix **30** (§ **4.1.25, 4.1.3, 4.2.6** and **5.1.1**), Appendix **30A** (§ **4.2.6, 4.1.25, 4.1.3** and **5.1.2**), Appendix **30B** (§ **2.6** and **6.1**)) allow for an administration to act on behalf of a group of named administrations for the purpose of notifying the Radiocommunication Bureau of frequency assignments to satellite networks. In such cases, the administration acting on behalf of the group is designated notifying administration for the group within the meaning of the Radio Regulations.

In some cases, the above-mentioned provisions are used for the benefit of an intergovernmental organization (a grouping of States constituted on the basis of an international treaty and having its own common organs).

On several occasions, intergovernmental satellite telecommunication organizations have requested the Bureau to make a change in their notifying administration. In order to clarify the conditions under which the Bureau can effect a change in the name of the notifying administration and update its various databases and the Preface to the BR IFIC (Space Services) (Table 2 and 12A/B), the Board has concluded as follows:

- When an intergovernmental satellite telecommunication organization wishes to designate a new notifying administration vis-à-vis ITU for its satellite networks, the Bureau shall effect the corresponding modifications upon receipt of due written notification to that effect by the legal representative of the intergovernmental organization in question under the terms of its constitutive Act. This notification shall include the evidence of agreement from the newly named administration to act as the notifying administration on behalf of the intergovernmental organization.

Rules related to satellite systems submitted by an administration acting on behalf of a group of named administrations (ADD RRB20/84)

9.1.1, 9.6.1, 11.15.1, AP4 Annex 2 items A.1.f.2 and A.1.f.3, AP30 (4.1.3, 4.1.25, 4.2.6, 5.1.1), AP30A (4.1.3, 4.1.25, 4.2.6, 5.1.2), AP30B (2.6, 6.1)

Certain provisions of the Radio Regulations (Nos. **9.1.1, 9.6.1, 11.15.1**, Appendix **30** (§§ 4.1.3, 4.2.6 and 5.1.1, see also § 4.1.25), Appendix **30A** (§§ 4.1.3, 4.2.6 and 5.1.2, see also § 4.1.25), Appendix **30B** (§§ 2.6 and 6.1)) allow for an administration to act on behalf of a group of named administrations for the purpose of notifying the Bureau of frequency assignments to satellite systems. In such cases, the administration acting on behalf of the group is designated as the notifying administration for the group within the meaning of the Radio Regulations. These provisions share the common feature (albeit expressed in different manners) that, whenever an administration acts on behalf of a group of named administrations, all members of the group retain the right to respond in respect of their own services which could affect or be affected by the proposed assignment.

For the implementation of these provisions, symbols of “Intergovernmental satellite organizations” (see Table 2 of the Preface to the BR IFIC for Space Services), irrespective of the legal status of the group of administrations forming the entity, shall be created. Such symbols shall be submitted to the Bureau under item A.1.f.3 of Annex 2 to Appendix 4 (“if the notice is submitted on behalf of an intergovernmental satellite organization, the symbol of that organization (see the Preface)”). Satellite filings bearing such a symbol shall be treated separately from filings submitted by the notifying administration on its own behalf: the special sections¹ of such satellite filings show the notifying administration labelled as ADM/ORG, where ADM is the symbol of the notifying administration and ORG the symbol of the intergovernmental satellite organization (instead of being simply labelled ADM). Moreover, the coordination requirements of the satellite system of ADM/ORG shall include the coordination requirements with respect to ADM if the relevant coordination thresholds are exceeded. This method ensures the appropriate implementation of the right of “all members of the group (...) to respond in respect of their own services”.

In parallel, the Bureau can list several administrations under item A.1.f.2 of Annex 2 to Appendix 4 (“if the notice is submitted by the notifying administration in association with other administrations, the symbols of each of the administrations (see the Preface)”) without the creation of “Intergovernmental satellite organizations”. In these cases, the notifying administration shall be labelled ADM and no coordination requirements with other satellite systems and terrestrial services of that notifying administration shall be considered. In other terms, the right of the notifying administration of the group to respond in respect of its own services is not applied to these cases (other administrations of the group do however retain this right).

¹ Throughout this rule of procedure, the term “special section” may also refer to Parts I-S, II-S or III-S, as appropriate.

The following table shall apply for treatment of notices submitted by an administration acting on behalf of a group of named administrations depending on whether the group is submitted through item A.1.f.2 or A.1.f.3 of Annex 2 to Appendix 4.

Note: some intergovernmental satellite organizations have more than one notifying administration. In such a case, the following table is applicable separately for each notifying administration in respect of the satellite system for which it acts as the notifying administration on behalf of the group of named administrations.

	Group of named administrations submitted through item A.1.f.2 (list of administrations)	Group of named administrations submitted through item A.1.f.3 (intergovernmental satellite organization)
1. Creation of the group of named administrations		
<u>Case 1-1</u> : the group is created when administration ADM submits a satellite system on behalf of administrations ADM, ADM_1, ADM_2, etc.	<p>A special section is published with ADM as the notifying administration and administrations ADM_1, ADM_2, etc. listed under item A.1.f.2.</p> <p>In special sections where coordination requirements are listed, coordination may be required with regards to administrations ADM_1, ADM_2, etc. but not with regards to administration ADM.</p>	<p>A code ORG for the group of administrations ADM, ADM_1, ADM_2, etc. is created and inserted in Table 2 of the Preface.</p> <p>A special section is published with ADM/ORG as the notifying administration. Administrations ADM, ADM_1, ADM_2, etc. may or may not be listed in item A.1.f.2, at the request of the notifying administration.</p> <p>In special sections where coordination requirements are listed, coordination may be required with regards to administrations ADM, ADM_1, ADM_2, etc. but not with regards to ADM/ORG.</p>
<u>Case 1-2</u> : the group is created when notifying administration ADM, on behalf of administrations ADM, ADM_1, ADM_2, etc., requests to do so on an existing ADM satellite system.	<p>A modification to the last special section of the existing satellite system is published with ADM as the notifying administration and administrations ADM_1, ADM_2, etc. listed under item A.1.f.2.</p> <p>The list of coordination requirements² is unchanged.</p>	<p>A code ORG for the group of administrations ADM, ADM_1, ADM_2, etc. is created and inserted in Table 2 of the Preface.</p> <p>Modifications to all the special sections of the existing satellite system are published with ADM/ORG as the notifying administration. Administrations ADM, ADM_1, ADM_2, etc. may or may not be listed in item A.1.f.2, at the request of the notifying administration.</p> <p>Notifying administration ADM has to clarify in its request the coordination status of its other satellite systems with regards to the satellite system for which the change is requested. Depending on the information provided by administration ADM, the list of coordination requirements of the existing satellite system may have to be revised.</p>

² In the case of PART-II-S, the term “coordination requirements” encompasses coordination requirements for which an agreement has been obtained, or for which the application of RR No. **11.32A** or No. **11.41** has led to favourable findings by the Bureau.

	Group of named administrations submitted through item A.1.f.2 (list of administrations)	Group of named administrations submitted through item A.1.f.3 (intergovernmental satellite organization)
2. Modification (including closure) of the group of named administrations		
<u>Case 2-1</u> : Administration ADM_3 joins the group	<p>A modification to the last special section of the existing satellite system(s) is published with ADM as the notifying administration and administrations ADM_1, ADM_2, ADM_3, etc. listed under item A.1.f.2.</p> <p>The list of coordination requirements is unchanged.</p>	<p>The list of administrations for the organization ORG is updated in Table 2 of the Preface by including administration ADM_3.</p> <p>A modification to the last special section is necessary if a group of administrations ADM, ADM_1, ADM_2, etc. has also been listed in item A.1.f.2, at the request of the notifying administration.</p> <p>The list of coordination requirements is unchanged.</p>
<u>Case 2-2</u> : Administration ADM_1 leaves the group	<p>A modification to the last special section of the existing satellite system(s) is published with ADM as the notifying administration and administration ADM_1 removed from the list published under item A.1.f.2.</p> <p>Administration ADM annexes a copy of the letter of consent from administration ADM_1 to leave the group.</p> <p>The list of coordination requirements is unchanged.</p>	<p>The list of administrations for the organization ORG is updated in Table 2 of the Preface by removing administration ADM_1.</p> <p>A modification to the last special section is necessary if a group of administrations ADM, ADM_1, ADM_2, etc. has been listed in item A.1.f.2, at the request of the notifying administration.</p> <p>The list of coordination requirements is unchanged.</p>
<u>Case 2-3</u> : Notifying administration ADM leaves the group	Notifying administration ADM cannot leave the group without suppressing the satellite system.	Notifying administration ADM cannot leave the group without requesting the BR, or RRB, to change the notifying administration (see Case 2-4 below).

	Group of named administrations submitted through item A.1.f.2 (list of administrations)	Group of named administrations submitted through item A.1.f.3 (intergovernmental satellite organization)
<u>Case 2-4</u> : The group decides to change its notifying administration	WRC-19 decided that the Board shall deny such requests (see Section 3 of Document CMR19/569).	Possible based on the Rules of Procedure concerning the treatment of change of notifying administration which acts as the notifying administration of a satellite system on behalf of a group of named administrations. RRB to consider the matter on a case-by-case basis if the Rules are not applicable.
<u>Case 2-5</u> : The group decides to transfer the satellite system to one of its members, acting independently of the group	The satellite system shall not be transferred to another notifying administration.	RRB to consider the matter on a case-by-case basis. WRC-19 confirmed the approach so far used by the Board for treating such cases and further decided that a letter from an appropriate responsible authority of this intergovernmental satellite organization is required to confirm their agreement with the change of notifying administration (see Section 3 of Document CMR19/569).
<u>Case 2-6</u> : The group decides to transfer the satellite system to an administration, which is not a member of the group	The satellite system shall not be transferred to another notifying administration.	The satellite system shall not be transferred to another notifying administration. WRC-19 decided that the Board shall deny such requests (see Section 3 of Document CMR19/569).
<u>Case 2-7</u> : The group is discontinued	If the notifying administration ADM does not request the suppression of the satellite system(s), a modification to the last special section of the existing satellite system(s) is published with ADM as the notifying administration and all administrations removed from the list published under item A.1.f.2. The list of coordination requirements is unchanged.	Unless for situations addressed under Case 2-5, the existing satellite systems are suppressed.

	Group of named administrations submitted through item A.1.f.2 (list of administrations)	Group of named administrations submitted through item A.1.f.3 (intergovernmental satellite organization)
3. Issues concerning the correspondence and regulatory actions related to a satellite system submitted on behalf of a group of named administrations Note – In treating regulatory actions affecting satellite systems submitted on behalf of an intergovernmental satellite organization, the Bureau shall exercise additional care in order to ensure that such regulatory actions, in particular partial or total suppressions, are requested on behalf of the group of named administrations. When the notifying administration ADM/ORG requests the partial or total suppression of a satellite system, the written confirmation from a legal representative of the intergovernmental satellite organization shall be provided together with the request.		
Which administration can request regulatory actions (ADD, MOD, SUP) on the satellite system?	Only the notifying administration ADM	Only the notifying administration ADM/ORG on behalf of the group
Which administration exchanges correspondence on the satellite system with the Radiocommunication Bureau?	Only the notifying administration ADM	Only the notifying administration ADM/ORG on behalf of the group

	Group of named administrations submitted through item A.1.f.2 (list of administrations)	Group of named administrations submitted through item A.1.f.3 (intergovernmental satellite organization)
4. Issues related to cost recovery		
Is a notice submitted on behalf of a group of named administrations subject to free entitlement?	Yes, but only the annual free entitlement from the notifying administration can be used. Note: If the notifying administration uses a free entitlement for the group, the notifying administration cannot use the free entitlement for one of its own submissions.	Yes, but only the annual free entitlement from the notifying administration can be used. Note: If the notifying administration uses the free entitlement for the group, the notifying administration cannot use the free entitlement for one of its own submissions.
Is there any cost recovery fee specifically related to the creation, modification or closure of a group of named administrations?	Such requests are currently free of charge, because it does not involve a detailed technical examination by the Bureau.	Such requests are currently free of charge, because it does not involve a detailed technical examination by the Bureau.

TABLE 9.11A-1

Applicability of the provisions of Nos. 9.11A-9.14 to stations of space services (MOD RRB20/84)

1	2	3		4		5	6	7
Frequency band (MHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14, as appropriate		Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate		Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes
137-137.025 137.175-137.825	5.208	MOBILE-SATELLITE (non-GSO)	↓	SPACE OPERATION METEOROLOGICAL-SATELLITE SPACE RESEARCH	↓	9.12, 9.12A, 9.13, 9.14	FIXED (5.204, 5.205) LAND MOBILE (5.204, 5.205) MARITIME MOBILE (5.204, 5.205) AERONAUTICAL MOBILE (OR) (5.204, 5.206) BROADCASTING (5.207)	1
137.025-137.175 137.825-138	5.208	Mobile-satellite (non-GSO)	↓	---	↓	9.12, 9.14	Fixed (in countries other than those listed in Nos. 5.204 and 5.205) Land mobile (in countries other than those listed in Nos. 5.204 and 5.205) Maritime mobile (in countries other than those listed in Nos. 5.204 and 5.205) Aeronautical mobile (OR) (in countries other than those listed in Nos. 5.204 and 5.206)	
148-149.9	5.219	MOBILE-SATELLITE (non-GSO)	↑	--- (See No. 5.219)		9.12	--- (See No. 5.219)	
149.9-150.05	5.220	MOBILE-SATELLITE (non-GSO)	↑	---		9.12	---	1
312-315	5.255	Mobile-satellite (non-GSO)	↑	Mobile-satellite (GSO)	↑	9.12, 9.12A, 9.13	---	
312-315	5.255	Mobile-satellite (non-GSO) (5.254)	↑	Mobile-satellite (non-GSO) (5.254) Mobile-satellite (GSO) (5.254)	↓ ↓↑	9.12, 9.12A, 9.13	--- (See No. 5.254)	2
387-390	5.255	Mobile-satellite (non-GSO)	↓	Mobile-satellite (GSO)	↓	9.12, 9.12A, 9.13	---	
387-390	5.255	Mobile-satellite (non-GSO) (5.254)	↓	Mobile-satellite (non-GSO) (5.254) Mobile-satellite (GSO) (5.254)	↑ ↓↑	9.12, 9.12A, 9.13	--- (See No. 5.254)	2
399.9-400.05	5.220	MOBILE-SATELLITE (non-GSO)	↑	---		9.12	---	
400.15-401	5.264	MOBILE-SATELLITE (non-GSO)	↓	METEOROLOGICAL-SATELLITE SPACE RESEARCH	↓	9.12, 9.12A, 9.13, 9.14	FIXED (5.262) MOBILE (5.262) METEOROLOGICAL AIDS	1
454-455	5.286A	MOBILE-SATELLITE (non-GSO) (5.286D, 5.286E)	↑	---		9.12	--- (See Nos. 5.286B and 5.286C)	
455-456 459-460	5.286A	MOBILE-SATELLITE (non-GSO) (Region 2 (5.286E))	↑	---		9.12	--- (See Nos. 5.286B and 5.286C)	

TABLE 9.11A-1 (continued) (MOD RRB20/84)

1	2	3		4		5	6	7
Frequency band (MHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14, as appropriate		Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate		Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes
1 164-1 215	5.328B	RADIONAVIGATION-SATELLITE	↓ ↔	---		9.12, 9.12A, 9.13	---	
1 215-1 260	5.328B	RADIONAVIGATION-SATELLITE	↓	--- (See No. 5.332)		9.12, 9.12A, 9.13	--- (See No. 5.329)	
1 215-1 300	5.328B	RADIONAVIGATION-SATELLITE	↔	--- (See No. 5.332 and 5.329A)		9.12, 9.12A, 9.13	--- (See No. 5.329)	
1 260-1 300	5.328B	RADIONAVIGATION-SATELLITE	↓	EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active)		9.12, 9.12A, 9.13	--- (See No. 5.329)	
1 518-1 525	5.348	MOBILE-SATELLITE (except USA (5.344))	↓	---		9.12, 9.12A, 9.13, 9.14	FIXED MOBILE (except on the territory of USA in Region 2, see No. 21.16)	
1 525-1 530	5.354	MOBILE-SATELLITE	↓	SPACE OPERATION (No. 9.14, Region 2 only, see No. 21.16)	↓	9.12, 9.12A, 9.13, 9.14	FIXED (Region 1, Region 3, see also No. 5.352A) LAND MOBILE (5.349) MARITIME MOBILE (5.349) AERONAUTICAL MOBILE (5.342, 5.350)	
1 530-1 535	5.354	MOBILE-SATELLITE	↓	SPACE OPERATION	↓	9.12, 9.12A, 9.13, 9.14	AERONAUTICAL MOBILE (5.342)	
1 535-1 545	5.354	MOBILE-SATELLITE	↓	---		9.12, 9.12A, 9.13	---	
1 545-1 550	5.354	MOBILE-SATELLITE	↓	---		9.12, 9.12A, 9.13, 9.14	AERONAUTICAL MOBILE (R) (5.357)	3
1 550-1 555	5.354	MOBILE-SATELLITE	↓	---		9.12, 9.12A, 9.13, 9.14	FIXED (5.359) AERONAUTICAL MOBILE (R) (5.357)	3
1 555-1 559	5.354	MOBILE-SATELLITE	↓	---		9.12, 9.12A, 9.13, 9.14	FIXED (5.359)	
1 559-1 610	5.328B	RADIONAVIGATION-SATELLITE	↓	---		9.12, 9.12A, 9.13	---	
1 559-1 610	5.328B	RADIONAVIGATION-SATELLITE	↔	--- (See No. 5.329A)		9.12, 9.12A, 9.13	---	
1 610-1 621.35	5.364	MOBILE-SATELLITE RADIODETERMINATION-SATELLITE (Region 2 (except country in No. 5.370), countries in No. 5.369)	↑	AERONAUTICAL MOBILE-SATELLITE (R) (5.367)	↓↑ ↔	9.12, 9.12A, 9.13	---	
1 621.35-1 626.5	5.364	MOBILE-SATELLITE RADIODETERMINATION-SATELLITE (Region 2 (except country in No. 5.370), countries in No. 5.369)	↑	MARITIME MOBILE SATELLITE AERONAUTICAL MOBILE-SATELLITE (R) (5.367)	↓ ↓↑ ↔	9.12, 9.12A, 9.13	---	

TABLE 9.11A-1 (continued) (MOD RRB20/84)

1	2	3		4		5	6	7
Frequency band (MHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14, as appropriate		Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate		Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes
1 621.35-1 626.5	5.365	MARITIME MOBILE SATELLITE	↓	MOBILE-SATELLITE RADIODETERMINATION-SATELLITE (Region 2 (except country in No. 5.370), countries in No. 5.369) AERONAUTICAL MOBILE-SATELLITE (R) (5.367)	↑ ↓↑ ↔	9.12, 9.12A, 9.13, 9.14	FIXED (5.359)	
1 610-1 626.5	5.364	Radiodetermination-satellite (Region 1 (5.371), Region 3, country in No. 5.370))	↑	---		9.12, 9.12A, 9.13	---	
1 613.8-1 621.35	5.365	Mobile-satellite	↓	---		9.12, 9.12A, 9.13, 9.14	Fixed (5.355)	
1 621.35-1 626.5	5.365	Mobile-satellite except maritime mobile satellite	↓	---		9.12, 9.12A, 9.13, 9.14	Fixed (5.355)	
1 626.5-1 660.5	5.354	MOBILE-SATELLITE	↑	---		9.12, 9.12A, 9.13	---	
1 668-1 668.4	5.379B	MOBILE-SATELLITE	↑	SPACE RESEARCH		9.12, 9.12A, 9.13	---	
1 668.4-1 670	5.379B	MOBILE-SATELLITE	↑	---		9.12, 9.12A, 9.13	---	
1 670-1 675	5.379B	MOBILE-SATELLITE	↑	METEOROLOGICAL-SATELLITE	↓	9.12, 9.12A, 9.13	---	6
1 980-2 010	5.389A	MOBILE-SATELLITE	↑	---		9.12, 9.12A, 9.13	---	
2 010-2 025	5.389C	MOBILE-SATELLITE (Region 2)	↑	---		9.12, 9.12A, 9.13	---	
2 160-2 170	5.389C	MOBILE-SATELLITE (Region 2)	↓	---		9.12, 9.12A, 9.13, 9.14	FIXED (Region 2) MOBILE (Region 2) (see also No. 5.389E)	
2 170-2 200	5.389A	MOBILE-SATELLITE	↓	---		9.12, 9.12A, 9.13, 9.14	FIXED MOBILE (see also No. 5.389F)	
2 483.5-2 500	5.402	MOBILE-SATELLITE RADIODETERMINATION- SATELLITE	↓	---		9.12, 9.12A, 9.13, 9.14	FIXED MOBILE RADIOLOCATION (Region 2, Region 3) (see also No. 5.398A & 5.399)	
2 483.5-2 500	5.402	Radiodetermination-satellite (Region 1 and Region 3)	↓	---		9.12, 9.12A, 9.13	--- (See No. 5.399)	
2 500-2 520	5.414	MOBILE-SATELLITE (Region 3)	↓	FIXED SATELLITE (Region 2 and Region 3), RADIODETERMINATION-SATELLITE (5.404)	↓	9.12, 9.12A, 9.13, 9.14* * Only applicable to MSS in J and IND (see No. 5.414A)	FIXED LAND MOBILE MARITIME MOBILE	

Part A1
AR9
page 9
rev. 6

TABLE 9.11A-1 (continued) (MOD RRB18/78)

1	2	3	4	5	6	7		
Frequency band (MHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14 , as appropriate	Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate	Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes		
2 520-2 535	5.403	MOBILE-SATELLITE (except AERONAUTICAL MOBILE-SATELLITE) (Region 3)	↓	BROADCASTING-SATELLITE, FIXED SATELLITE (Region 2 and Region 3) AERONAUTICAL MOBILE-SATELLITE (countries in No. 5.415A)	↓	9.12, 9.12A, 9.13, 9.14* * Only applicable to MSS, including AMSS in J and IND (see Nos. 5.414A and 5.415A)	FIXED LAND MOBILE MARITIME MOBILE	
2 630-2 655	5.418A 5.418B 5.418C	BROADCASTING-SATELLITE (sound) (5.418)	↓	BROADCASTING-SATELLITE (5.416) FIXED-SATELLITE (Region 2)	↓	9.12, 9.12A, 9.13	---	4, 5
2 655-2 670	5.420	MOBILE-SATELLITE (except AERONAUTICAL MOBILE-SATELLITE) (Region 3)	↑	BROADCASTING-SATELLITE FIXED SATELLITE (Region 2 and Region 3)	↓ ↑ ↓	9.12, 9.12A, 9.13	---	
2 670-2 690	5.419	MOBILE-SATELLITE (Region 3)	↑	FIXED SATELLITE (Region 2 and Region 3)	↑ ↓	9.12, 9.12A, 9.13	---	
5 010-5 030	5.328B	RADIONAVIGATION-SATELLITE	↓ ↔	AERONAUTICAL MOBILE-SATELLITE (R)	↓ ↑ ↔	9.12, 9.12A, 9.13	---	
5 030-5 091	5.443D	AERONAUTICAL MOBILE-SATELLITE (R)	↓ ↑ ↔	---		9.12, 9.12A, 9.13, 9.14	AERONAUTICAL MOBILE (R)	
5 091-5 150	5.444A	FIXED-SATELLITE (limited to non-GSO MOBILE-SATELLITE SERVICE feeder links)	↑	AERONAUTICAL MOBILE-SATELLITE (R)	↓ ↑ ↔	9.12, 9.12A, 9.13	---	
5 150-5 216	5.447A 5.447B	FIXED-SATELLITE (limited to non-GSO MOBILE-SATELLITE SERVICE feeder links)	↓ ↑	RADIODETERMINATION-SATELLITE (non-GSO) (5.446), with date of bringing into use prior to 17.11.1995 (see No. 5.447C)	↓	9.12, 9.12A, 9.13	---	
5 216-5 250	5.447A	FIXED-SATELLITE (limited to non-GSO MOBILE-SATELLITE SERVICE feeder links)	↑	---		9.12, 9.12A, 9.13	---	
6 700-7 075	5.458B	FIXED-SATELLITE (limited to non-GSO MOBILE-SATELLITE SERVICE feeder links)	↓	FIXED-SATELLITE (non GSO) in bands 6 700-6 725 MHz and 7 025-7 075 MHz	↑	9.12		

TABLE 9.11A-1 (continued)

1	2	3		4		5	6	7
Frequency band (GHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14, as appropriate		Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate		Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes
10.7-11.7	5.441 5.484A	FIXED-SATELLITE (non-GSO)	↓	FIXED-SATELLITE (non-GSO) (Region 1)	↑	9.12	---	
11.7-12.2	5.488 and Res. 142 (WRC-03)	FIXED-SATELLITE (GSO) (Region 2)	↓	---		9.14	FIXED (except in United States of America and Mexico (see No. 5.486), in the band 11.7-12.1 GHz FIXED (Regions 1 and 3) and in Peru, (see No. 5.489), in the band 12.1-12.2 GHz MOBILE except aeronautical mobile (Regions 1 and 3)	
11.7-12.5	5.484A 5.487A	FIXED-SATELLITE (non-GSO)	↓	---		9.12	---	
12.5-12.7	5.484A 5.487A	FIXED-SATELLITE (non-GSO)	↓	FIXED-SATELLITE (non-GSO) (Region 1) BROADCASTING-SATELLITE (non-GSO) (Region 3)	↑ ↓	9.12	---	
12.7-12.75	5.484A	FIXED-SATELLITE (non-GSO) (Region 1 and Region 3)	↓	FIXED-SATELLITE (non-GSO) (Region 1 and Region 2) BROADCASTING-SATELLITE (non-GSO) (Region 3)	↑ ↓	9.12		
12.75-13.25	5.441	FIXED-SATELLITE (non-GSO)	↑	---		9.12	---	
13.75-14.5	5.484A	FIXED-SATELLITE (non-GSO)	↑	---		9.12	---	
15.43-15.63	5.511A	FIXED-SATELLITE (limited to non-GSO MOBILE-SATELLITE SERVICE feeder links)	↑	---		9.12	---	
17.3-17.7	5.516	FIXED-SATELLITE (non-GSO) (Region 1 and Region 3)	↑	FIXED-SATELLITE (non-GSO) (Region 1) BROADCASTING-SATELLITE (Non-GSO) (Region 2)	↓	9.12	---	
17.7-17.8	5.516	FIXED-SATELLITE (non-GSO) (Region 1 and Region 3)	↑	FIXED-SATELLITE (non-GSO) (Region 1 and Region 3) BROADCASTING-SATELLITE (Non-GSO) (Region 2)	↓	9.12	---	
17.8-18.1	5.516 5.484A	FIXED-SATELLITE (non-GSO)	↑ ↓	---		9.12	---	
18.1-18.6	5.484A	FIXED-SATELLITE (non-GSO)	↓	---		9.12	---	
18.8-19.3	5.523A	FIXED-SATELLITE	↓	---		9.12, 9.12A, 9.13	---	

TABLE 9.11A-1 (end) (MOD RRB20/84)

1	2	3		4		5	6	7
Frequency band (GHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14, as appropriate		Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate		Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes
19.3-19.6	5.523B	FIXED-SATELLITE (limited to non-GSO MOBILE-SATELLITE SERVICE feeder links)	↑	---		9.12, 9.12A, 9.13	---	
	5.523D	FIXED-SATELLITE (GSO with coordination information received as of 18.11.1995 and non-GSO MOBILE-SATELLITE SERVICE feeder links) (see also No. 5.523C)	↓					
19.6-19.7	5.523D	FIXED-SATELLITE (GSO with coordination information received as of 22.11.1997 and non-GSO MOBILE-SATELLITE SERVICE feeder links) (see also No. 5.523E)	↓	FIXED-SATELLITE (GSO with coordination information received as of 22.11.1997 and non-GSO) (see also No. 5.523E)	↑	9.12, 9.12A, 9.13	---	
19.7-20.1	5.484A	FIXED-SATELLITE (non-GSO)	↓	MOBILE-SATELLITE (Non-GSO) (Region 2)	↓	9.12	---	
20.1-20.2	5.484A	FIXED-SATELLITE (non-GSO)	↓	MOBILE-SATELLITE (Non-GSO)	↓	9.12	---	
27.5-28.6	5.484A	FIXED-SATELLITE (non-GSO)	↑	FIXED-SATELLITE (Non-GSO) in the band 27.5-27.501 GHz (5.538)	↓	9.12	---	
28.6-29.1	5.523A	FIXED-SATELLITE	↑	---		9.12, 9.12A, 9.13	---	
29.1-29.5	5.535A	FIXED-SATELLITE (GSO) (see also Nos. 5.523C and 5.523E) and non-GSO MOBILE-SATELLITE SERVICE feeder links)	↑	---		9.12, 9.12A, 9.13	---	
29.5-29.9	5.484A	FIXED-SATELLITE (non-GSO)	↑	MOBILE-SATELLITE (Non-GSO) (Region 2)	↑	9.12	---	
29.9-30	5.484A	FIXED-SATELLITE (non-GSO)	↑	MOBILE-SATELLITE (Non-GSO) FIXED-SATELLITE (Non-GSO) in the band 29.999-30 GHz (5.538)	↑ ↓	9.12		
37.5-39.5	5.550C	FIXED-SATELLITE (non-GSO)	↓	--- (See No. 5.550C)		9.12	---	
39.5-40.5	5.550E (5.550C)	MOBILE-SATELLITE (non-GSO) FIXED-SATELLITE (non-GSO)	↓	--- (See No. 5.550C and 5.550E)		9.12	---	
40.5-42.5	5.550C	FIXED-SATELLITE (non-GSO)	↓	--- (See No. 5.550C)		9.12	---	
47.2-50.2	5.550C	FIXED-SATELLITE (non-GSO)	↑	---		9.12	---	
50.4-51.4	5.550C	FIXED-SATELLITE (non-GSO)	↑	---		9.12	---	

Notes to Table 9.11A-1:

- ¹ Coordination thresholds indicated in Annex 1 to Appendix 5 apply only to the MOBILE-SATELLITE service.
- ² For the status of this additional allocation with respect to other services see No. 5.254.
- ³ See Rule of Procedure on No. 5.357.
- ⁴ The coordination of the non-GSO BROADCASTING-SATELLITE service (sound) in respect of terrestrial services is subject to the provisions of Resolution 539 (Rev.WRC-15).
- ⁵ For the applicability of the forms of coordination (Nos. 9.12, 9.12A or 9.13) to be applied between services mentioned in columns 3 and 4, please refer to the Rules of Procedure on frequency band 2 605-2 655 MHz and the Rules of Procedure relating to No. 5.418C, as appropriate.
- ⁶ For the relation between the MOBILE-SATELLITE service and earth stations in the METEOROLOGICAL-SATELLITE service, see also No. 5.380A.

TABLE 9.11A-2

Applicability of the provisions of No. 9.15 to earth stations of a non-geostationary satellite network and No. 9.16 to stations of terrestrial services

1	2	3	4	5	6	7
Frequency band (MHz)	Footnote No. in Article 5	Terrestrial services to which No. 9.16 applies and in respect of which No. 9.15 applies	Space services mentioned in a footnote referring to No. 9.11A to which No. 9.15 applies and in respect of which No. 9.16 applies		Applicable Nos. 9.15, 9.16 provision(s)	Notes
137-137.025 137.175- 137.825	5.208	FIXED (5.204, 5.205) LAND MOBILE (5.204, 5.205) MARITIME MOBILE (5.204, 5.205) AERONAUTICAL MOBILE (OR) (5.204, 5.206) BROADCASTING (5.207)	MOBILE-SATELLITE (non-GSO (5.209))	↓	9.15, 9.16	1
137.025- 137.175 137.825-138	5.208	Fixed (in countries other than those listed in Nos. 5.204, 5.205) Land mobile (in countries other than those listed in Nos. 5.204, 5.205) Maritime mobile (in countries other than those listed in Nos. 5.204, 5.205) Aeronautical mobile (OR) (in countries other than those listed in Nos. 5.204, 5.206)	Mobile-satellite (non-GSO (5.209))	↓	9.15, 9.16	1

TABLE 9.11A-2 (continued) (MOD RRB20/84)

1	2	3	4	5	6	7
Frequency band (MHz)	Footnote No. in Article 5	Terrestrial services to which No. 9.16 applies and in respect of which No. 9.15 applies	Space services mentioned in a footnote referring to No. 9.11A to which No. 9.15 applies and in respect of which No. 9.16 applies		Applicable Nos. 9.15, 9.16 provision(s)	Notes
400.15-401	5.264	FIXED (5.262) MOBILE (5.262) METEOROLOGICAL AIDS	MOBILE-SATELLITE (non-GSO (5.209))	↓	9.15, 9.16	1
1 518-1 525	5.348 5.348A 5.348B	LAND MOBILE (except J (No. 5.348A)) MARITIME MOBILE (except J (No. 5.348A)) AERONAUTICAL MOBILE (In Regions 2 and 3, except J (No. 5.348A) and with the exception of aeronautical mobile telemetry in USA (5.348B))	MOBILE-SATELLITE (except USA (5.344))	↓	9.15, 9.16	1
1 525-1 530	5.354	FIXED (Region 1, Region 3, see also No. 5.352A) LAND MOBILE (5.349) MARITIME MOBILE (5.349) AERONAUTICAL MOBILE (5.342, 5.350)	MOBILE-SATELLITE	↓	9.15, 9.16	1
1 530-1 535	5.354	AERONAUTICAL MOBILE (5.342)	MOBILE-SATELLITE	↓	9.15, 9.16	1
1 545-1 550	5.354	AERONAUTICAL MOBILE (R) (5.357)	MOBILE-SATELLITE	↓	9.15, 9.16	1, 2
1 550-1 555	5.354	FIXED (5.359) AERONAUTICAL MOBILE (R) (5.357)	MOBILE-SATELLITE	↓	9.15, 9.16	1, 2
1 555-1 559	5.354	FIXED (5.359)	MOBILE-SATELLITE	↓	9.15, 9.16	1
1 610-1 626.5	5.364	Fixed (5.355)	Radiodetermination-satellite (Region 1 (5.371), Region 3, country in No. 5.370)	↑	9.15	1
1 613.8-1 621.35	5.365	Fixed (5.355)	Mobile-satellite	↓	9.15, 9.16	1
1 621.35-1 626.5	5.365	Fixed (5.355)	Mobile-satellite except maritime mobile-satellite	↓	9.15, 9.16	1
1 621.35-1 626.5	5.365	FIXED (5.359)	MARITIME MOBILE-SATELLITE	↓	9.15, 9.16	1
1 626.5-1 631.5 1 634.5-1 645.5	5.354	FIXED (5.359)	MOBILE-SATELLITE	↑	9.15	1
1 646.5-1 656.5	5.354	FIXED (5.359) AERONAUTICAL MOBILE (R) (5.376)	MOBILE-SATELLITE	↑	9.15	1
1 668.4-1 670	5.379B	FIXED MOBILE (except aeronautical mobile) METEOROLOGICAL AIDS	MOBILE-SATELLITE	↑	9.15	1, 3

TABLE 9.11A-2 (end)

1	2	3	4	5	6	7
Frequency band (GHz)	Footnote No. in Article 5	Terrestrial services to which No. 9.16 applies and in respect of which No. 9.15 applies	Space services mentioned in a footnote referring to No. 9.11A to which No. 9.15 applies and in respect of which No. 9.16 applies		Applicable Nos. 9.15, 9.16 provision(s)	Notes
19.6-19.7	5.523D	FIXED MOBILE	FIXED-SATELLITE (non-GSO MOBILE-SATELLITE SERVICE feeder links) (see also No. 5.523E)	↓	9.15, 9.16	1
28.6-29.1	5.523A	FIXED MOBILE	FIXED-SATELLITE (non-GSO)	↑	9.15	1
29.1-29.5	5.535A	FIXED MOBILE	FIXED-SATELLITE (non-GSO MOBILE-SATELLITE SERVICE feeder links)	↑	9.15	1

- ¹ See § 2.4.b), 2.4.c) and 2.5 of the Rules of Procedure relating to No. 9.11A for the application of Nos. 9.15, 9.16, 9.17 and 9.18.
- ² See Rule of Procedure relating to No. 5.357.
- ³ Not subject to the provisions of No. 9.15 in respect of the METEOROLOGICAL AIDS service in countries listed in No. 5.379E.
- ⁴ Not subject to the provisions of No. 9.15 in respect of the FIXED and MOBILE service in CAN and USA (No. 5.379D).
- ⁵ Stations in the aeronautical radionavigation service in this band are subject to power limits indicated in Recommendation ITU-R S.1340-0 (in consequence of the modification of No. 5.511C by WRC-15).

9.15 to 9.19

1 The expression in Nos. 9.15, 9.17 and 9.17A of “band allocated with equal rights” is understood to mean equality of rights between services to which the band is allocated. According to footnote 1 to § 1 of Appendix 5 the “equality of right” condition is extended to all coordination forms under Nos. 9.15 to 9.19.

2 See also the Rules of Procedure concerning Appendix 7.

9.18

The coordination procedure of No. 9.18 is to be applied only in frequency bands allocated to a space service in the direction space-to-Earth, i.e. when transmitting terrestrial stations are inside the coordination area of a receiving earth station for which coordination under No. 9.17 has already been initiated and in the case where both services have the same category of allocation.

The coordination between receiving terrestrial stations and transmitting earth stations is done only when the transmitting earth station is coordinated in application of No. **9.17**. Once that coordination is initiated an administration wishing to operate terrestrial stations within the coordination area of the transmitting earth station can evaluate the level of interference that its station may receive and decide by itself whether to proceed or not with the implementation of its terrestrial stations.

9.19

(MOD RRB20/84)

This provision relates to the requirements of coordination of transmitting terrestrial stations and transmitting earth stations in the FSS (Earth-to-space) with respect to typical BSS earth stations. To date, there are no provisions in the Radio Regulations or ITU-R Recommendations defining the power flux-density (pfd) levels produced by the terrestrial stations and transmitting earth stations in the FSS at the edge of the service area of a BSS satellite in the non-planned frequency bands to be used for triggering the coordination, with the exception of the pfd criteria in the band 1 452-1 492 MHz, set by Resolution **761 (Rev.WRC-19)**. Until such time that technical criteria and the appropriate calculation method are identified in Table 5-1 and Appendix 5 or included in the relevant ITU-R Recommendations, in applying this provision, for establishing coordination requirements the following criteria are to be used:

- For transmitting IMT stations notified with nature of service “IM” in the frequency band 1 452-1 492 MHz, in Regions 1 and 3: frequency overlap and the power flux-density of $-154 \text{ dB(W/(m}^2 \cdot 4 \text{ kHz))}$ at the edge of the service area of non-planned BSS, is calculated using Recommendation ITU-R P.452-16 for 20% of time;
- For all non-IMT stations in the frequency band 1 452-1 492 MHz, as well as for transmitting terrestrial stations in other non-planned BSS frequency bands: frequency overlap and the distance from the location of the terrestrial station to the national border of any country included in the service area of the BSS assignment is less than 1 200 km;
- For transmitting earth stations in the FSS (Earth-to-space): frequency overlap and, the power flux-density limits in the nearest frequency band(s), where available.

Note: WRC-19 took the decision related to the RoP on No. **9.19**, see paragraphs 2.14 to 2.16 of the Minutes of the 6th Plenary meeting, Doc. CMR19/469, as follows:

*“1 Based on the information provided in § 3.1.3.5 of Addendum 2 to the Report of the Director it was noted that the Bureau identifies the coordination requirements for the assignments to terrestrial services vis-à-vis typical earth stations of the broadcasting-satellite service under RR No. **9.19** in eight frequency bands, namely 620-790 MHz, 1 452-1 492 MHz, 2 310-2 360 MHz, 2 520-2 670 MHz, 11.7-12.75 GHz, 17.7-17.8 GHz, 40.5-42.5 GHz and 74-76 GHz.*

*2 It was further noted that currently the coordination triggers are available only for the band 11.7-12.7 GHz, as contained in Annex 3 of RR Appendix **30**. For all other bands the Bureau uses the Rules of Procedure on RR No. **9.19** establishing the criteria for coordination as a frequency overlap and the coordination distance of 1 200 km with respect to the territories on which typical BSS earth stations are located. It was recognized that 1 200 km would be a very conservative coordination distance that might overestimate real needs for coordination and result in a considerable coordination burden for the administrations.*

3 *The relevant ITU-R Study Groups are invited to develop more specific criteria for establishing coordination requirements under RR No. 9.19 in the bands 620-790 MHz, 1 452-1 492 MHz, 2 310-2 360 MHz, 2 520-2 670 MHz, 17.7-17.8 GHz, 40.5-42.5 GHz and 74-76 GHz.”*

Note by the Secretariat: WRC-19 suppressed provision No. 5.311A on allocation of the frequency band 620-790 MHz to the BSS.

9.21

1 Notification under Article 11 before the completion of the procedure of No. 9.21

The Bureau accepts notifications under Article 11 with a reference to No. 4.4 in a band where the coordination procedure of No. 9.21 is to be applied at any moment before starting the procedure or during the application of the procedure of No. 9.21 (See No. 11.31.1). For cases of notification under Article 11, where the coordination of No. 9.21 was already initiated but not yet fully completed, see comments under the Rules of Procedure relating to No. 11.31.1 and No. 11.37.

2 Secondary services

2.1 Upgrade of the status of the allocation for specific assignments

The following Rule has been adopted by the Board for application in cases where the application of the coordination procedure of No. 9.21 will upgrade a secondary allocation made in the Table or in a footnote (e.g. No. 5.371) to a primary status for specific assignments (e.g. Nos. 5.325 and 5.326).

For the purpose of identifying other administrations (Administration B) likely to be affected, assignments to stations of secondary services already entered in the Master Register and subject to provisions of Nos. 5.28 to 5.31 shall not be taken into consideration in cases involving those services of the requesting administration (Administration A) which are subject to the coordination procedure of No. 9.21 and will have primary status once that procedure has been successfully applied. Consequently, when criteria are drawn up for identifying affected administrations, secondary services shall not be regarded as enjoying protection against a primary service subject to the coordination procedure of No. 9.21.

2.2 Coordination of assignments in allocation situations on a secondary basis

There are several provisions where the allocation is made on a secondary basis subject to the application of the procedure defined in No. **9.21** (e.g. Nos. **5.181, 5.197, 5.259, 5.371**). For the application of the **9.21** procedure in these cases, some specific elements would need to be taken into account.

It is to be noted that in accordance with No. **9.52**, any administration may object to the planned use on the basis of its existing or planned stations and that No. **9.52C** stipulates that “an administration not responding ... shall be regarded as unaffected”. An administration may consider that the application of the No. **9.21** procedure will result in a secondary status, and assume that there is no need for it to comment, since the secondary service is required to not cause harmful interference to a primary service. Consequently an assignment for which the No. **9.21** procedure was applied shall be considered secondary with respect to administrations which have given their agreement as well as to administrations which have not commented upon it within the time-limits specified in No. **9.52**. Any other arrangement between administrations when reaching agreement in application of the No. **9.21** agreement procedure is considered only in the relations between those administrations.

3 Coordination of a satellite network

When an administration communicates Appendix **4** data (AP**4**/II Notice Forms) for a satellite network to initiate the coordination procedure of No. **9.21**, the Bureau will act under Nos. **9.36** to **9.38** for that satellite network with respect to other satellite networks and for the space station of that satellite network with respect to terrestrial services, as appropriate.

If the administration requests that No. **9.21** be also initiated for earth stations of the satellite network, the request shall be accompanied with the AP**4**/III Notice Forms. The Bureau will then establish coordination and/or “agreement” areas, as appropriate, for specific and/or typical earth stations located on the territory of the requesting administration, and publish the information under No. **9.38**. In case horizon elevation data were not provided, as well as in the case of typical earth stations, a value of 0° will be assumed by the Bureau.

2.4 *Maritime mobile service*: Most of them are related to the frequency bands that are allocated exclusively to the maritime mobile service (obligatory channelling arrangements, permitted classes of emission, power limits, etc.); however many of them are also applicable to the non-exclusive allocations to the maritime mobile service. A summary of the provisions that are applicable to the frequency assignments subject to notification is given in the Table below:

	Provision No.
Power limits	52.104 52.117, 52.127 (Region 1 only), 52.143, 52.144, 52.172 52.184-52.186, 52.188, 52.202 (Region 1 only) 52.219, 52.220, 52.227, 52.265, 52.266
Class of emission	52.2, 52.3 52.101, 52.177, 52.183, 52.188, 52.198, 52.217
Mandatory sub-division	52.10 (Region 1 only), 52.13 Appendix 17

2.5 The list of these “other provisions”, referred to in No. **11.31.2**, with respect to which notices to stations in terrestrial services⁶ in the bands that are shared with equal rights with space services are examined, is given below:

2.5.1 conformity with the limits concerning the maximum equivalent isotropically radiated power (e.i.r.p.), in the context of services and frequency bands indicated in Table **21-2** (Nos. **21.3, 21.4, 21.5A** and **21.6**);

2.5.2 conformity with the limits concerning the power delivered by a transmitter to the antenna of a station in the fixed or mobile services (13 dBW in frequency bands between 1 GHz and 10 GHz, 10 dBW in frequency bands above 10 GHz), in the context of services and frequency bands indicated in Table **21-2** (Nos. **21.5** and **21.6**).

2.6 The list of these “other provisions”, referred to in No. **11.31.2**, applicable to space services, is given below so far as Articles **21** and **22** are concerned:

⁶ In bands shared by terrestrial and space radiocommunication services, the administration may use passive repeaters in the fixed service (radio-relay systems). While generally the passive repeater is situated close to the transmitting or receiving station, it usually involves a major change in the direction of the maximum radiation which may further affect the orbit; for this reason, the Board decided that administrations shall be requested to notify both parts of the link as separate stations, i.e., transmitting stations to passive repeater and passive repeater to receiving stations; and that each of the notices, containing information in accordance with Appendix **4**, is treated as a separate assignment representing a separate station.

2.6.1 conformity with the power limits for earth stations as stipulated in provisions Nos. **21.8**, **21.10** and **21.12**, **21.13**, **21.13A** account being taken of Nos. **21.9** and **21.11** ⁷, and in provisions **22.26** to **22.28** or **22.32** (as appropriate) under the conditions specified in **22.30**, **22.31** and **22.34** to **22.39**, where the earth stations are subject to those power limitations (see also § A.16 of Appendix 4);

2.6.2 conformity with the minimum angle of elevation of earth stations as stipulated in provisions Nos. **21.14** ⁸ and **21.15**;

2.6.3 conformity with the limits of power flux-density from space stations produced at the Earth's surface as indicated in the Table **21-4** (No. **21.16**), as well as with the $epfd_{\downarrow}$ limits in Tables **22-1A** to **22-1E** (No. **22.5C**), taking into account, as appropriate, the provisions of Nos. **21.17** and **22.5CA**;

2.6.4 conformity with the limits of power flux-density from space stations produced at the GSO as indicated in Nos. **22.5** and **22.5A** as well as with $epfd_{is}$ limits in Table **22-3** (No. **22.5F**);

2.6.5 conformity with limit of equivalent power flux-density ($epfd$) from earth stations produced at the GSO ($epfd_{\uparrow}$) as indicated in the Table **22-2** (No. **22.5D**);

2.6.6 conformity with the single-entry limit specified in No. **22.5L** for non-geostationary-satellite systems in the fixed-satellite service; (ADD RRB20/84)

2.6.7 conformity with the limit of power flux-density (pfd) from earth stations produced at the GSO as stipulated in provision No. **22.40**; (MOD RRB20/84)

2.6.8 conformity with the limit specified in Nos. **22.8**, **22.13**, **22.17** and **22.19**. (MOD RRB20/84)

3 Other provisions of Articles **21** and **22** will not be taken into account in the Regulatory examination under No. **11.31** and the Board understands that these provisions are to be applied between administrations.

4 (Not used)

5 Conformity with the Table of Frequency Allocations

The examination of conformity with the Table of Frequency Allocations consists of determining whether the assigned frequency and/or the necessary bandwidth of the emission is within the frequency band allocated to the service in which the station in question operates. Another element is to identify the category of the service according to the Table of Frequency Allocations. The following rules are applied in this connection:

⁷ See Rules of Procedure relating to No. **21.11**.

⁸ See Rules of Procedure relating to No. **21.14**.

Rules concerning

APPENDIX 30A to the RR

(Rules are arranged by paragraph numbers of Appendix **30A**)

Art. 2A

Use of the guardbands

Art. 4

**Procedures for modifications to the Region 2 feeder-link Plan
or for additional uses in Regions 1 and 3**

4.1.1 a) and 4.1.1 b)

1 In determining those administrations of Regions 1 and 3 that may be affected, the proposed new or modified assignment to the List is examined with respect to the Regions 1 and 3 Plan and List as they exist at the date of receipt of the proposed new or modified assignment to the List, including the other proposed new or modified assignments to the List received before that date (whether the procedure of Article 4 is complete or not). The examination consists of ensuring that the limits of § 4 of Annex 1 of Appendix **30A** are not exceeded. Account is also taken of any time-limited new or modified assignments to the List in accordance with § 4.1.13.

2 Following the introduction by the 1983 Conference of the grouping concept for Region 2 (Articles 9 and 10 of Appendices **S30A** and **S30** respectively) and further to the decision of WARC Orb-88 to apply the grouping concept to the Regions 1 and 3 feeder-link Plan (Article 9A of Appendix **S30A**), the ex-IFRB decided to extend this concept to the 1977 Conference BSS Plan. WRC-2000 endorsed this decision and decided to include the same grouping concept definition in Articles 11 and 9A of Appendices **30** and **30A** respectively.

3 The Board's understanding of the group concept is that in the interference calculation to assignments that are part of the group, only the interference contribution from assignments that are not part of the same group are to be considered. On the other hand, for the interference calculation from assignments belonging to a group into assignments that are not part of the same group, only the worst interference contribution from that group is to be taken into consideration.

4 According to *resolves* 5 of Resolution **548 (WRC-12)**, in the processing of Regions 1 and 3 Article 4 submissions received after 2 June 2000 for identification of affected administrations, each network in a group shall be examined separately without taking into account the interference contribution from the other networks in the group. This means that the concept of calculating the worst interference contribution from the assignments that are part of a group to assignments that are not part of the same group, as indicated in Article 9A

Rules concerning

APPENDIX 30B to the RR

Art. 4

Execution of the provisions and associated Plan

4.1

Bidirectional allocation of some bands

1 See comments made under the Rules of Procedure concerning No. **5.441**.

Art. 6

Procedures for the conversion of an allotment into an assignment for the introduction of an additional system or for the modification of an assignment in the List

6.3 a)

1 The footnotes attached to provisions § 6.3 a), 6.19 b), 7.5 a) and 8.8 require that the “other provisions” mentioned in those provisions shall be identified and included in the Rules of Procedure.

The regulatory examinations under § 6.3 a), 6.19 b), 7.5 a) and 8.8 include the following:

- conformity with the Table of Frequency Allocations, including its footnotes and any Resolution or Recommendation which is referred to in such a footnote;
- all “other” mandatory provisions that are contained in Articles **21** to **22**, in Articles 3 and 4 of Appendix **30B** to the Radio Regulations and/or in Resolutions that are relevant to the service in the frequency band in which a station of that service operates.

2 The list of “other provisions” that are contained in Articles **21** to **22** with respect to which the notices are examined, is given below:

2.1 conformity with the power limits for earth stations as stipulated in provisions Nos. **21.8** and **21.12**, account being taken of provisions Nos. **21.9** and **21.11**¹, and in provisions Nos. **22.26** to **22.29** under the conditions specified in provisions Nos. **22.30**, **22.31** and **22.37** where the earth stations are subject to those power limitations;

2.2 conformity with the minimum angle of elevation of earth stations as stipulated in provisions No. **21.14**²;

2.3 conformity with the limits of power flux-density from space stations produced at the Earth’s surface as indicated in the Table **21-4** (provision No. **21.16**), taking into account, as appropriate, the provision Nos. **21.17**; however, the Rules of Procedure relating to No. **21.16** concerning the application of power flux-density (pfd) limits to steerable beams do not apply in this case.

2.4 conformity with the limit specified in provisions Nos. **22.8** and **22.19**.

2.5 Other provisions of Articles **21** and **22** will not be taken into account in the Regulatory examination under § 6.3 *a*), 6.19 *b*), 7.5 *a*) and 8.8 and the Board understands that these provisions are to be applied between administrations as appropriate.

6.5 (MOD RRB20/84)

1 (Not used) (MOD RRB20/84)

2 The Board, in reviewing the implementation of the regulatory procedures of Appendix **30B**, noted that there is no provision to prohibit the implementation of non-simultaneous transmissions within the context of that Appendix. The Board further noted that this approach is used within the context of Appendices **30** and **30A** by means of the grouping concept as defined in Articles 9 and 9A of Appendix **30A**, Articles 10 and 11 of Appendix **30** and rules of procedure relating to § 4.1.1 *a*) and 4.1.1 *b*) of Appendices **30** and **30A**. (MOD RRB20/84)

¹ See Rules of Procedure relating to No. **21.11**.

² See Rules of Procedure relating to No. **21.14**.

3 In view of the above, the Board decided that the same grouping concept can also be applied within the context of §§ 6.5, 6.21 and 6.22. The Board's understanding of the grouping concept is that in the interference calculation to entries (allotments or assignments) that are part of the group, only the interference contribution from entries that are not part of the same group are to be considered. On the other hand, for the interference calculation from entries belonging to a group into entries that are not part of the same group, only the worst interference contribution from that group is to be taken into consideration. (MOD RRB20/84)

4 The Board did not find any regulatory basis to extend the use of groupings involving multiple orbital positions. However, grouping of networks in different orbital positions may be used before the inclusion of the assignments in the List to modify the orbital position of a network.

5 Interference between assignments to the "existing systems" as referred to in *considering b) and c)* of Resolution **148 (WRC-15)** shall not be taken into consideration in single-entry calculation for consistent implementation of *instructs the Radiocommunication Bureau 2* of that Resolution.

6 See also *Note by the Secretariat* relating to the "multi-beam networks" as indicated in column 10 of the tables in Article 10 of Appendix **30B**.

6.6

(MOD RRB20/84)

Agreement of an administration whose territory is partially or wholly included in the service area of an assignment

The Board decided that the administrative agreements of the administrations whose territories are partially or wholly included in the intended service area of an assignment under examination are explicitly required and shall be obtained when entering the assignment in the List, irrespective of whether or not their allotments in the Plan or their assignments are identified as affected under § 6.5. If an identified administration does not make comment nor reply to the notifying administration's request for seeking agreement under § 6.6, it shall be considered that the former administration disagrees to the inclusion of its territory in the intended service area of the assignment.

In the examination of a satellite network submitted under § 6.17, if the Bureau finds that the territory of an administration is wholly or partially included in the service area of the network without having obtained an explicit agreement from that administration prior to the submission under § 6.17, it shall request the notifying administration to exclude the territory and the associated test points from the service area. If the notifying administration insists on keeping the service area unchanged, the finding of the examination under § 6.19 a) shall be unfavourable.

An administration that agreed to include its territory in the service area of an assignment may at any time withdraw its agreement in accordance with § 6.16.

6.16

1 When the Bureau receives an objection to being included in a service area of an assignment from an administration in accordance with § 6.16 of Appendix **30B**, the Bureau publishes the modified service area for exclusion of its territory from the service area if the assignment has already been included in the List. If the assignment is at the stage of coordination and not yet included in the List (i.e. published in an AP30B/A6A/-- Special Section only), the Bureau takes that objection into account in the examination under § 6.19 *a*) when the assignment is submitted by the notifying administration under § 6.17. The final characteristics of the assignment in the List (i.e. those published in an AP30B/A6B/-- Special Section) shall not include the territory and test points that are within the territory of the objecting administration in the service area.

2 However, an administration can object to the inclusion of its territory in the service area of an assignment of the other administrations not yet entered in the List and explicitly request that the objection should be taken into account in the examination of its own network submitted under § 6.17 of Appendix **30B** in order to facilitate inclusion of the assignments of its own network to be included in the List. In this case, the objection should be considered definitive. The Bureau shall then, in accordance with § 6.16 of Appendix **30B**, exclude the territory and test points that are within the territory of that objecting administration from the service area of the assignment objected and publish the modified service area in a modification to the corresponding AP30B/A6A/-- Special Section. The modification to the service area and the deletion of test points shall then be taken into account in the subsequent examinations including examinations under § 6.21 and 6.22 of Appendix **30B** of the network submitted by the objecting administration under § 6.17 of Appendix **30B**.

6.19 b)

See Rules of Procedure relating to § 6.3 *a*).

6.21

See Rules of Procedure relating to § 6.5.

Annex 4

Criteria for determining whether an allotment or an assignment is considered to be affected

2.1

(MOD RRB20/84)

1 In order to adequately protect the existing networks in their entire downlink service area, an examination based on a single-entry criterion over the downlink service area was introduced under § 2.1 of Annex 4 of Appendix **30B**.

2 As indicated in footnote 19 to § 2.1 of Annex 4 of Appendix **30B (Rev.WRC-19)**, the reference values within the downlink service area are interpolated from the reference values on the corresponding test points. The following interpolation formula and condition shall be used to calculate the interpolated values at grid points⁴ within the downlink service area:

$$V_{Eg} = \frac{\sum_{h=1}^{Nt} R_{Th} \times (d_{Th})^{-2}}{\sum_{h=1}^{Nt} (d_{Th})^{-2}} \quad (1)$$

where:

Th: test point number h of the wanted downlink service area;

Eg: point number g of the grid of examination points on the wanted downlink service area;

Nt: total number of test points;

d_{Th}: distance between the test point *Th* and the grid point *Eg*;

R_{Th}: single entry *C/I* reference value (dB) at the test point *Th* (i.e. 26.65 dB, or $(C/N)_d + 11.65$ dB, whichever is the lowest);

V_{Eg}: interpolated single entry *C/I* reference value (dB) at the grid point *Eg*.

If the value $(R_{Th} - ((C/N)_{d,Th} - (C/N)_{d,Eg}))$ is lower than R_{Th} , then $(R_{Th} - ((C/N)_{d,Th} - (C/N)_{d,Eg}))$ shall be used in (1) instead of R_{Th} ,

where:

$(C/N)_{d,Th}$: the downlink *C/N* value at test point *Th*;

$(C/N)_{d,Eg}$: the downlink *C/N* value at grid point *Eg*.

3 If the interpolated value V_{Eg} is higher than $(C/N)_{d,Eg} + 11.65$ dB, $(C/N)_{d,Eg} + 11.65$ dB shall be used as the reference value for grid point *Eg*. Otherwise, the interpolated value is the reference value.

⁴ The service area is regularly covered by a grid of points located on land and inside the service area.

4 Footnote 10 to § 2.1 of Appendix 1 to Attachment 1 to Resolution **170 (WRC-19)** refers to the same interpolation method as above. Therefore, when applying § 2.1 of Appendix 1 to Attachment 1 to Resolution **170 (WRC-19)**, the method contained in §§ 2 and 3 above shall be used to calculate the interpolated values at grid points within the downlink service area with the following modifications:

R_{Th} shall be defined as the single entry C/I reference value (dB) at the test point Th (i.e. 23.65 dB, or $(C/N)_d + 8.65$ dB, or any already accepted value, whichever is the lowest);

a value of $(C/N)_{d, Eg} + 8.65$ dB shall be used instead of $(C/N)_{d, Eg} + 11.65$ dB.
