

UPDATES to the

Rules of Procedure

(Edition of 2012)

approved by the Radio Regulations Board

Revision (Circular No.)	Date	Part	AR/AP	RR No. or other reference ¹	Pages to be removed	Pages to be inserted	
1 See CR/339	September 2012	A1	AR5	5.316A ²	5	5 (rev.1)	
				5.327A ³			
				5.397	7-8	7-8 (rev.1)	
				5.399			
				5.410 ²			
				5.444B ³	13-15	13-15 (rev.1)	
				5.446A			
				Receivability	1, 1.1 ³ , 1.2 2 b)	1-3	1-3 (rev.1)
				AR21	21.16, 3	2	2 (rev.1)
				AP18	AP18 ²	1-2	-
AP30	An. 1, 1 b)	14-16	14-16 (rev.1)				
AP30A	An. 1, 4 b)	13-16	13-15 (rev.1)				
AP30B	6.3 a), 2.3 6.16 Art. 8, 8.17 ³	2-6	2-7 (rev.1)				
		Table of content			1	1 (rev.1)	
2 See CR/342	November 2012	A1	AR9	9.2	1-2	1-2 (rev.2)	
				9.11A-1	10-11	10-11 (rev.2)	
				9.11A-2	16-17	16-17 (rev.2)	
				9.21 ³ -9.27	19-22	19-22 (rev.2)	
				9.41-9.42 ³	25	25 (rev.2)	
			AR11	11.43A ³	19-23	19-23 (rev.2)	
				11.44 ³			
				11.44B ³			
				11.47 ³			
				11.49 ³			

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3 See CR/346	April 2013	A1	AR9	Council decision 482	1-2	1-1bis (rev.3), 2
			AR11	Appendix 4 (Annex2, A4) ⁴ ,	1-2	1-1bis (rev.3), 1ter, 2
				11.31	6	6 (rev.3)
			Resolution 51	1-2.2.2	1	-
		A6	GE89	4	2	2 (rev.3)
		C		1.4, 1.6, 1.9-1.12	1-4	1-4 (rev.3)
		Table of content			1	1 (rev.3)
4 See CR/351	August 2013	C		1.6 bis	2-6	2-6 (rev.4)
5 See CR/355	January 2014	A1	AR5	5.132A, 5.145A, 5.161A 5.399	3-4 7-8	3-3bis (rev.5)-4 7 (rev.5)-8
			AR11	11.41, 11.41.2 11.44 ⁵	19-20 21-22	19 (rev.5)-20 21 (rev.5)-22
			AR21	Table 21-2	1-2	1-1bis (rev.5)-2
			AP30B	Annex 4, 2.2 ⁵	7-8	7-8 (rev.5)
		A10	GE06	Appendix 2.1, Section A2.1.8.1	7-8	7-7bis (rev.5)-8
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6 See CR/368	August 2014	A1	Receivability	1.1 2 b)	1 (rev.1) 2 (rev.1)	1 (rev.6) 2 (rev.6)
			AR9	9.2B 9.5B ⁶ 9.47 9.62	1bis (rev.2) 2 (rev.2) 25 (rev.2) 30	1bis (rev.6) 2 (rev.6) 25 (rev.6) 30 (rev.6)-31
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7 See CR/373	November 2014	A1	AR11	11.50	23 (rev.2)	23-25 (rev.7)
		Table of content			1 (rev.6)-2	1 (rev.7)-2
8 See CR/390		A10	GE06	7	1-10	1 (rev.8)-12
		B3		7	1-14	1 (rev.8)- 19 (rev.8)
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9 See CR/402	May 2016	A1	Effective date of entry into force AR9	8		1 (rev.9)
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					1(rev.7)	1(rev.9)
10 See CR/412	November 2016	A1	AR1 AR5 Receivability AR9	1.112 ⁹	2	2(rev.10)
				5.316B ⁹	5(rev.1)	5(rev.10)
				5.328AA ⁹	6	6(rev.10)- 6bis(rev.10)
				5.341A ⁹ , 5.346 ⁹	7(rev.5)	7(rev.10)
				Band 2630-2655 MHz ⁹	10-11	10(rev.10)- 11(rev.10)
				5.509D 5.509E 5.510 ⁹	19-20	19(rev.10)- 20(rev.10)
					1(rev.6)-3, 5	1(rev.10)- 3(rev.10); 5(rev.10)
				9.11A ⁹	1bis-3	2(rev.10)- 3(rev.10)
					8-12	8(rev.10)- 12(rev.10)
				9.19 ⁹ 9.23 ⁹	17(rev.2) 19(rev.2)	17(rev.10) 19(rev.10)- 19bis(rev.10)
		20bis(rev.10)				
		25(rev.10)				
		30(rev.10)- 31(rev.10)				
		9.47 ⁹	25(rev.6)	25(rev.10)		
		9.62 ⁹	30(rev.6)- 31(rev.6)	30(rev.10)- 31(rev.10)		

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10 See CR/412	November 2016	A1	AR11	11.28 ⁹ 11.31 ⁹ 11.32A ⁹ 11.44 ⁹ , 11.44B ⁹ , 11.48 ⁹ , 11.49 and 11.49.1 ⁹ , 11.50 ⁹	4-5 15-16 21(rev.5)- 24(rev.7)	4(rev.10)- 5(rev.10) 15(rev.10)- 16(rev.10) 21(rev.10)- 24bis(rev.10)
			AR13		1	1(rev.10)
			AR21	21.14 ⁹	1bis(rev.5)	1bis(rev.10)
			AR23	23.13 ⁹	1	1(rev.10)
			AP4		1	1(rev.10)- 1bis(rev.10)
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AP30A		14(rev.1)- 15(rev.1)	14(rev.10)- 15(rev.10)			
AP30B		6(rev.1)	6(rev.10)			
RES49			1(rev.10)*			
		A10	GE06		4-5	4(rev.10)- 6(rev.10)
		B	B6		1-3	1(rev.10)- 4(rev.10)
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* To be inserted after PART A1 / RES1 / page 2.

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11 See CR/417	February 2017	A1	AR1	1.112 ⁹	2(rev.10)	2(rev.11)
			AR5	5.312A ⁹		4bis(rev.11)
			AR9	9.19 9.36	19(rev.10) 23	19(rev.11)- 23(rev.11)
			AR11	11.43A ⁹	19(rev.5)	19(rev.11)
			AP30		5	5(rev.11)- 5bis (rev.11)
			AP30A		1	1(rev.11)- 1bis (rev.11)
					4	4(rev.11)- 4bis (rev.11)
					15(rev.10)	15(rev.11)- 16(rev.11)
			AP30B		3(rev.1)	3(rev.11)- 3bis (rev.11) 4(rev.11)
		B	B6	9	1(rev.10)- 2(rev.10) 4(rev.10)	1(rev.11)- 2(rev.11) 4(rev.11)
		Table of content			1(rev.10)- 3(rev.10)	1(rev.11)- 3(rev.11)

¹ The new Rules or modifications to the existing Rules of Procedure take effect immediately or as otherwise indicated.

² Effective date of suppression: 1 January 2013.

³ Effective date of application: 1 January 2013.

⁴ Effective date of application: 1 July 2013.

⁵ Effective date of application: 1 January 2014.

⁶ Effective date of application: 1 January 2015.

⁷ Effective date of application: 6 February 2016.

⁸ Effective date of application: 28 November 2015.

⁹ Effective date of application: 1 January 2017.

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Rules concerning

ARTICLE 1 of the RR

1.23

1 Number **1.23** states that the functions of the space operation service (space tracking, space telemetry, space telecommand) will normally be provided within the service in which the space station is operating. The question thus arises as to the appropriateness of considering frequency assignment notices with classes of stations performing these functions, to be in conformity with the Table of Frequency Allocations when the Table does not contain an allocation to the space operation service.

2 In the No. **11.31** examinations, notices concerned with space operation functions will be considered in conformity with the Table of Frequency Allocations (favourable Finding) in the case where the assigned frequency (and the assigned frequency band) lies in a frequency band allocated to the:

- space operation service, or
- the main service in which the space station is operating (e.g. fixed-satellite service (FSS), broadcasting-satellite service (BSS), mobile-satellite service (MSS)).

3 In the case where the assigned frequency concerning space operation functions lies in a frequency band allocated to a service in which the space station has no operating function the No. **11.31** Finding will be unfavourable.

1.61

When, in a given location or aboard a satellite, transmitters or receivers are used for different radiocommunication services, this constitutes several stations each corresponding to a separate radiocommunication service. This distinction is essential in space radiocommunications when a unique spacecraft is used for several services. (For the symbols of the different classes of station used in the notice forms for the services in which a station is operating, see Table No. 3 of the Preface to the BR IFIC.)

1.63

Transportable earth station: The Board considers a transportable earth station in the fixed-satellite service (see No. **1.21**) (or in any other space service) to be an earth station to be used only at fixed points. Consequently, its notice form is considered incomplete when it does not contain the geographical coordinates.

1.112

(MOD RRB17/74)

According to this definition, when a satellite system is composed of only one satellite it is at the same time a satellite network and when it is composed of more than one satellite each of its parts containing one satellite is a satellite network. The title of Annex 2 of Appendix 4 (as well as the sub-titles of § A and A1 of this Annex) indicates that the information contained in that Appendix shall be provided for each satellite network. Consequently the advance publication or coordination procedure, as appropriate, is to be applied for each satellite network. Taking into account Section A.4.b of Appendix 4, one notice for a non-geostationary satellite network may cover one or more orbital planes and one or more satellites per orbital plane.

On the basis of the above:

- a) a geostationary-satellite system using one satellite and two or more earth stations is a satellite network;
- b) in the case of a geostationary-satellite system in which the radio link between two earth stations uses two or more satellites communicating through intersatellite-links, each satellite with its associated earth and space stations, as appropriate, is considered as a separate satellite network. The intersatellite links connecting these satellites are to be notified for each of the satellites of the system;
- c) a non-geostationary-satellite system composed of one or more orbital planes, each of them with one or more satellites having identical characteristics, is treated as one satellite network. When these non-geostationary satellites are connected to each other by intersatellite links, these links may be notified as part of this satellite network;
- d) in the case of a combined satellite system consisting of one geostationary satellite and a number of non-geostationary satellites communicating through non-GSO/GSO intersatellite-links, the geostationary satellite and the non-geostationary satellites, each with their respective associated earth and space stations, as appropriate, are considered as separate satellite networks. The intersatellite links connecting the non-geostationary satellites to the geostationary satellite of the system are to be notified for each of the satellite networks of the system.

(See also comments under footnote () and § 4.2 of the Rules of Procedure concerning the Receivability of forms of notice)*

5.312A

(ADD RRB17/74)

1 This provision stipulates through Resolution **760 (WRC-15)** that in Region 1, the use of frequency band 694-790 MHz by the mobile, except aeronautical mobile, service is subject to agreement obtained under No. **9.21** with respect to the aeronautical radionavigation service in countries mentioned in No. **5.312**.

2 The criteria for identifying potentially affected administrations under No. **9.21** in this band are given in the Annex to Resolution **760 (WRC-15)** in the form of coordination distances with the most stringent value of a 450 km distance between a base station in the mobile service and a potentially affected station in the aeronautical radionavigation service.

3. Taking into account that No. **5.312** contains only a few countries while a large number of other countries of Region 1 are located at distances that are sufficiently large to exclude a potential for interference to the aeronautical radionavigation service, the Board decided that those administrations whose territories are beyond the distance of 450 km from the countries mentioned in No. **5.312** do not need to apply the No. **9.21** procedure to their mobile service assignments operating under No. **5.312A**.

4. Administrations having territories within a distance of 450 km from the countries listed in No. **5.312** are the following: Albania, Armenia, Austria, Azerbaijan, Bosnia and Herzegovina, Belarus, Bulgaria, Czech Rep., Germany, Denmark, Estonia, Finland, Georgia, Greece, Hungary, Croatia, Italy, Iraq, Kazakhstan, Kyrgyzstan, Lithuania, Latvia, Moldova, the Former Yugoslav Rep. of Macedonia, Montenegro, Mongolia, Norway, Poland, Romania, the Russian Federation, Sweden, Serbia, Slovakia, Slovenia, the Syrian Arab Republic, Tajikistan, Turkmenistan, Turkey, Ukraine and Uzbekistan.

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 RRB 17/74)

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 is no ITU-R Recommendation defining the power flux-density level produced by the terrestrial stations and transmitting earth stations in the FSS at the edge of the service area of non-planned BSS to be used for triggering the coordination. Until such time that a calculation method and technical criteria are included in the relevant ITU-R Recommendations, in applying this provision, for establishing coordination requirements the Bureau uses the following criteria:

- For transmitting terrestrial stations: 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 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-15 took the decision related to the RoP on No. **9.19**, see items 2.9 – 2.13 of the Minutes of the 6th Plenary meeting, Doc. CMR15/430, as follows:

“The conference agreed:

1 to confirm the current Bureau’s practice for application of provision No. 9.19 of the Radio Regulations related to coordination of transmitting terrestrial stations with respect to typical earth station included in the service area of a space station in the broadcasting-satellite service in the bands shared with equal rights between these services as follows:

“Since the pfd threshold values are only available for the band 11.7-12.7 GHz, and given the fact that different propagation conditions and criteria may apply to the other bands, in examination of frequency notices for terrestrial stations under No. 9.19 the Bureau currently establishes coordination requirements using only frequency overlap as the coordination threshold for the following 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.”

2 the conference invites the relevant ITU-R Study Groups to identify the applicable pfd values and calculation methods for establishing coordination requirements under No. 9.19 in the relevant frequency bands, including 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.” (ADD RRB16/58)

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**). (MOD RRB12/61)

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

9.28, 9.29 and 9.31

1 These provisions of the Radio Regulations establish the complete responsibility of the requesting administration for effecting the coordination of the frequency assignments to stations in the terrestrial services and to earth stations (specific or typical) of satellite networks with respect to other earth stations and stations of terrestrial services (see Nos. **9.15** to **9.19**), without any involvement of the Radiocommunication Bureau, except the cases referred to in Nos. **9.33** and/or **9.52**. Therefore, the Board considers these provisions as being addressed to administrations, and the Bureau has no action to take in this respect.

2 See also the Rules of Procedure under No. **11.32** (§ 4).

9.36

1 Under this provision, the Bureau “shall identify any administrations with which coordination may need to be effected”. In applying Appendix **5** with respect to No. **9.21**, the Bureau uses the following calculation methods and criteria⁵:

- space network vs. space network: Appendix **8**;
- earth station vs. terrestrial stations and *vice versa*, and earth station vs. other earth stations operating in the opposite direction of transmission: Appendix **7**;
- transmitting terrestrial stations vs. receiving space stations: criteria of Article **21**;
- transmitting space stations vs. terrestrial services⁶:
 - power flux-density (pfd) limits defined in Article **21** (where such limits are not applicable as hard limits to the service which is subject to No. **9.21**); or
 - coordination threshold pfd values applicable to other services in the same frequency band (e.g. pfd values in Table 5-2 of Annex 1 to Appendix **5**); or
 - frequency overlap with recorded terrestrial stations when no applicable pfd value mentioned above is available; (MOD RRB17/74)
- receiving space stations vs. transmitting terrestrial stations: frequency overlap within the visibility area of the satellite network;
- between stations of terrestrial services in some specific frequency bands: Rules of Procedure B4, B5 and B6 as appropriate.

2 For coordination requests under Nos. **9.11** to **9.14** and **9.21**, it is to be noted that irrespective of the identification by the Bureau under No. **9.36** (see footnote **9.36.1**), any administration, even one which was not identified, may disagree with the published assignment under No. **9.52** and any administration, including one identified by the Bureau, that has not commented on the proposed use within the regulatory time limit is considered to be unaffected by that use in accordance with No. **9.52C**.

⁵ For cases not covered under this paragraph, the Bureau, in collaboration with the appropriate Radiocommunication Study Groups, continue to develop applicable calculation methods and criteria in the form of Rules of Procedure to be submitted to the Board for approval.

⁶ Cases relevant to this indent are shown in the Annex to this Rule.

Annex to the Rule of Procedure concerning No. 9.36

	Case 1	Case 2	Case 3	Case 4
In frequency band	F1 - F2	F1 - F2	F1 - F2	F1 - F2
Space service (A) under No. 9.21 (footnote No. 5.xxx refers) is	A	A	A	A
Another space service (B), not under No. 9.21, with which the same frequency band is shared is	-	B	B	B
Hard pfd limit (Article 21, a footnote or a Resolution refers) is applicable to space service	A	B	-	-
Coordination threshold pfd value is applicable (under e.g. No. 9.14) to space service	-	-	B	-
Agreement threshold pfd value used to identify, under No. 9.21, potentially affected administrations in respect of their terrestrial stations/services (Note: In Special Section CR/C and in the BR's database, this relation is indicated by the provision symbol 9.21/C, see Preface to the BR IFIC (space services), Table 11A.1, and also Attachment 1 to CR/172)	<p style="text-align: center;"><i>None</i></p> <p>No need for agreement in respect of terrestrial services is indicated in either the Special Section CR/C or BR's database. The hard pfd limit applicable to service A is considered to be there to protect terrestrial services from space service A. If that limit is observed (as checked under No. 9.35), the finding for the space service assignment is favourable, terrestrial services are protected and there is no need for an agreement under No. 9.21 in respect of terrestrial services. If the hard pfd limit is exceeded, the finding for the agreement is unfavourable and the agreement procedure is not applicable</p>	<p style="text-align: center;"><i>Hard pfd limit applicable to service B (4th indent of the Rule)</i></p> <p>If such pfd limit is good enough to protect terrestrial services from service B, it is good enough to protect them from service A, too. If such limit is not exceeded, an administration is not potentially affected with respect to symbol 9.21/C. If that limit is exceeded, the finding for service A is still favourable (the limit is not a hard limit applicable to service A) and an administration on whose territory the limit is exceeded is considered as potentially affected with respect to symbol 9.21/C</p>	<p style="text-align: center;"><i>Coordination threshold pfd value applicable to service B (4th indent of the Rule)</i></p> <p>If such pfd limit is good enough to indicate if terrestrial services are potentially affected or not from service B, it is good enough to indicate the same with respect to service A, too</p>	<p style="text-align: center;"><i>None</i> (none exists)</p> <p>Frequency overlap with recorded terrestrial stations is used to indicate potentially affected administrations with respect to symbol 9.21/C. Any administration, visible from the satellite, may disagree under No. 9.52 with respect to its terrestrial services</p>

recorded under No. **4.4**. There are other provisions (e.g. Nos. **11.32A**, **11.33** and **11.41**) which may lead, in given circumstances, to recording when the coordination has not been successfully effected.

**11.41 and
11.41.2**

(ADD RRB13/64)

The provisions of No. **11.41.2** require the notifying administration, when submitting notices in application of No. **11.41**, to indicate to the Bureau that efforts have been made to effect coordination with those administrations whose assignments were the basis of the unfavourable findings under No. **11.38**, without success. In the absence of such an indication, a resubmission under No. **11.41** after a notice is returned under No. **11.38** shall be considered as not receivable and returned to the administration.

11.43A

1 Modification of a space network may take place during the coordination process; this case is covered in the comments under the Rules of Procedure concerning Nos. **9.27** (§ 3), **9.58**, **11.28** and **11.32**.

2 With respect to applicable procedures for cases of modifications to assignments to satellite networks which are recorded in the Master Register, WARC Orb-88 decided that, in the case of geostationary satellite networks, any modification to the basic characteristics of an assignment, in the application of No. **11.43A** (former RR No. **1548**), should be subject only to the coordination procedure (Section II of Article **9**). If the modification concerns the notification of assignment(s) in frequency band(s) not covered by other assignment(s) already recorded in the Master Register, No. **11.43A** does not apply and it will be processed under No. **11.2** or **11.9**, as appropriate. (MOD RRB17/74)

The purpose of the examination under No. **11.43A** is to determine whether the coordination requirements remained unchanged or, where appropriate, whether the probability of harmful interference has not increased (see also the Rules of Procedure concerning Nos. **11.28** and **11.32**). In these cases, the provisions of No. **11.43B** apply with the effect of maintaining unchanged the status (Findings) and the date of receipt of the assignment. If, due to the modifications, new coordination requirements are identified by comparing the level of interference (such as $\Delta T/T$) resulted from consideration of the initial characteristics and that of modified characteristics, then an unfavourable Finding shall be given and the Form of Notice shall be returned to the notifying administration. The notifying administration should be requested to apply Section II of Article **9**. Findings with respect to No. **11.32** are determined on the basis of the coordination agreements effected to meet the new coordination requirements. In the case, where the provisions of Nos. **11.32A** and **11.33** are applicable and the examinations show an increase in the probability of harmful interference compared with that which resulted from the initial examination, then the Finding is unfavourable and the notice shall be returned in accordance with provision No. **11.38**. See also the Rules of Procedure under No. **11.43B**.

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**). (ADD RRB12/61)

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. (MOD RRB12/61)

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)). (MOD RRB12/61)

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)). (MOD RRB12/61)

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 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. In cases where there is no calculation method and/or criteria to check the application of these provisions (e.g. coordination requirement for Nos. **9.12** and **9.13**), 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.

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.

2 This provision makes reference to the “original date of entry in the Master Register”. The Board considers this date to be the date of receipt of the original notice. However, with respect to the notices received prior to 1 January 1999, the Board considers this date equivalent to the date recorded in Column 2A, 2B, or 2D, as appropriate.

11.43C

The Board concluded that the resubmitted assignments will be recorded only if the Finding with respect to No. **11.31** remained favourable.

4.1.3

1 In the event that the Bureau cancels a frequency assignment in application of § 5.3.2 of Article 5 of this Appendix, the corresponding assignment, which has been submitted either under § 4.2.6 (except in the case of a request for replacement of an assignment in the Region 2 Plan) and entered in the Region 2 Plan, or under § 4.1.3 and entered in the Regions 1 and 3 List, shall also be removed from the Plan or the List according to the case. The Bureau does not need to recalculate the affected administration(s) as a result of the above-mentioned cancellation.

2 See also Rules of Procedure concerning Receivability of the Forms of Notice.

4.1.7

Any request by an administration to be included in the list of administrations to be published shall be based only on technical reasons to be verified using Annex 1 as well as other relevant Annexes. If this indicates that the requesting administration should have been included in the list, the Bureau will include it; otherwise the requesting administration will be informed that its name will not be published, it being left to the notifying administration to consider if it is appropriate to take the request into account.

4.1.7bis

The agreement referred to in § 4.1.7bis is the agreement of the administrations identified under § 4.1.1 and of those under § 4.1.7 which have been confirmed by the Bureau using the appropriate criteria.

4.1.8

An administration which has only requested additional information in accordance with § 4.1.8 or § 4.2.12 will not be considered by the Bureau to have submitted comments in accordance with § 4.1.10 or § 4.2.14 respectively.

4.1.11

See also comments under § 4.1.3 and 4.2.6 and Rules relating to the Receivability of the Forms of Notice.

Note: WRC-15 took the decision related to the RoP on paragraph 4.1.11 of RR Appendices **30** and **30A** during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, approval of Doc. CMR15/416 in relation to Section 3.2.6.4 of Doc. 4 (Add2) (Rev1), as follows:

“In Section 3.2.6.2 of Doc. 4 (Add2) (Rev1), the Director described the current practice of the Bureau in examining Part B submissions received under § 4.1.12 of Appendices 30 and 30A:

The Bureau identifies a list of administrations whose assignments are considered as being affected and receiving more interference as a result of the modification than that produced by the initial proposal in accordance with § 4.1.11. The Bureau then requests the notifying administration to modify the submitted characteristics in order to eliminate the above-mentioned identification or to apply again the provisions of § 4.1 of Appendices 30 and 30A.

In reply to the Bureau's request, some administrations have provided the Bureau with the agreement of the administration identified under § 4.1.11.

As the agreement to accept more interference has been provided and § 4.1.11 does not explicitly prevent this possibility, the Bureau has not rejected such agreements.

WRC-15 endorsed the current BR practice outlined in this section.” (MOD RRB17/74)

4.1.15

The second part of these paragraphs applies only to those assignments for which the procedure of Article 4 has been successfully applied, i.e., all administrations identified by the Bureau in application of § 4.1.5 or 4.2.8 and § 4.1.7 or 4.2.10 have either given their agreement or failed to comment on the proposed new or modified assignment to the Regions 1 and 3 List or on the proposed modification to the Region 2 Plan.

The Bureau shall update the reference situation of the Regions 1 and 3 Plan and List or of the Region 2 Plan entries and of those networks which are the subject of requests for new or modified assignment to the Regions 1 and 3 List or for Region 2 Plan modifications which are still at the stage of application of Article 4. Nevertheless, the Bureau does not need to recalculate the affected administration(s) as a result of the above-mentioned update.

4.1.23

If the assignments in question were deleted from the Regions 1 and 3 List or the Region 2 Plan, the Bureau shall update the reference situation of the assignments in the Regions 1 and 3 Plan and List, or in the Region 2 Plan and of the assignments under Article 4 procedure and inform all administrations of the action taken together with Special Sections published as a result of cancellation of frequency assignments from the Regions 1 and 3 List or the Region 2 Plan. The Bureau does not need to recalculate the affected administration(s) as a result of the above-mentioned cancellation.

4.2.1 a)

This paragraph refers to the modification in the sense of a change to “the characteristics of any of its frequency assignments to a space station in the broadcasting-satellite service (BSS) which are shown in the Region 2 Plan”. The Plan as it appears in Article 10 of Appendix 30 contains only eight characteristics, while Annex 2 contains a greater number of characteristics which were used by the RARC-SAT-R2 (Geneva, 1983) Conference to establish the Plan. Among these characteristics only one, the energy dispersal (former Annex 2, § 14 *h*), now item C.9 *b*) 8) of Annexes 2A and 2B of Appendix 4), is referred to in the footnote of § 4.2.1. The Board considers that modifications of characteristics other than those listed in Article 10 of Appendix 30 may be considered as modifications to the Plan. These other characteristics are listed in the Rules of Procedure relating to § 5.2.1 *b*) of Article 5 of Appendix 30.

See also the last paragraph of Rules of Procedure relating to § 4.2.3 *d*) and 4.2.3 *e*).

See also Rules of Procedure relating to § 4.2.6.

4.2.1 b)

See Rules of Procedure relating to § 4.2.1 *a*) above.

See also Rules of Procedure relating to § 4.2.6.

Rules concerning

APPENDIX 30A to the RR

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

Art. 2A

(ADD RRB17/74)

Use of the guardbands

2A.1.2

Note: WRC-15 took the decision related to Coordination criteria under § 9.7 for an incoming satellite network under Article 2A (Space Operation Function) of RR Appendix 30A in the 14.5-14.8 GHz frequency band during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, approval of Doc. CMR15/416 in relation to Section 3.2.6.10 of Doc. 4 (Add2) (Rev1), as follows:

“WRC-15 considered that a coordination arc of $\pm 7^\circ$ be applied for 14.5-14.8 GHz (to be aligned with Ku-band from agenda item 9.1.2).”

Note from the Secretariat: since WRC-15 decided to modify Appendix 5 of the Radio Regulations to apply a $\pm 6^\circ$ coordination arc for "FSS not subject to a plan and any associated space operation functions" in this band, the alignment requested by the Plenary will be implemented by applying the value of $\pm 6^\circ$ also in this case.

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-03)***, 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

* *Note by the Secretariat:* This Resolution was revised by WRC-12.

(column 15) of Appendix **30A**, is not applicable to the grouped networks for the identification of affected administrations in accordance with § 4.1.5 of that Appendix. In applying § 4.1.11, the application of this method to networks received before 3 June 2000 shall not result in additional coordination requirements for those networks.

5 In order to implement this separate examination and calculate the interference effect of an Article 4 network under examination independent of the other networks in the group in accordance with *resolves* 5 of Resolution **548 (WRC-03)***, the Board concluded that the following method should be used.

Identification of affected administrations should be carried out without taking into account the interference contribution from the Plan and the List assignments grouped with assignments of an Article 4 network under examination based on the reference situation established without taking into account the interference contribution from those grouped assignments.

6 For the Regions 1 and 3 feeder-link Plans and Lists, in accordance with *resolves* 1 of Resolution **548 (WRC-03)*** and the decision of the Plenary of WRC-03, the Board concluded that grouping of networks separated by more than 0.4° in the geostationary arc is not permitted in the List except for application of § 4.1.27. However, grouping of networks separated by more than 0.4° may be used before the inclusion of the assignments in the List to modify the orbital position of a network.

For the Region 2 Plan, with respect to § 4.2.2 *c*), the Board did not find any regulatory basis to extend the use of groupings involving multiple orbital positions (except for the case of 0.4° orbital separation which was allowed for clusters within the Region 2 Plan and its subsequent modifications).

In case of a request for replacement of an assignment/entry of an administration in the Region 2 Plan, the implementation of § 2.2 of the Rules of Procedure relating to § 4.2.6 of Appendix **30A** requires the processing of the modified assignment requested by that administration under Article 4 of that Appendix based on the following conditions:

- no interference effect from the initial assignment of the requesting administration is considered in the overall equivalent protection margin calculations of the modified assignment requested by that administration, and vice versa; and
- no aggregate interference effect from the subject initial assignment and the modified assignment of the requesting administration is considered in the overall equivalent protection margin calculations of other assignments, but only the worst interference effect from the two is to be considered.

The above-mentioned conditions apply only during the time-period afforded for the processing of the modified assignments under Article 4 of that Appendix. After that time-period, either the subject initial assignment or the modified assignment of the requesting administration will remain in the Plan, depending on the successful application or otherwise of the Article 4 procedure for this modified assignment.

* *Note by the Secretariat:* This Resolution was revised by WRC-12.

4.1.1 c)

In determining those administrations of Region 2 that may be affected, the proposed new or modified assignment to the 17 GHz Regions 1 and 3 List is examined with respect to the Region 2 Plan as it exists at the date of receipt of the proposed new or modified assignment including the proposed modifications of the Region 2 Plan received before that date (whether the procedure of Article 4 is complete or not). The examination will consider only those administrations having assignments whose necessary¹ bandwidth overlaps the necessary¹ bandwidth of the proposed new or modified assignment to the 17 GHz Regions 1 and 3 List. The Region 2 administration is identified as having services which are considered to be affected when the limits specified in § 5 of Annex 1 to Appendix **30A** are exceeded.

4.1.3

1 In the event that the Bureau cancels a frequency assignment in application of § 5.3.2 of Article 5 of this Appendix, the corresponding assignment, which has been submitted either under § 4.2.6 (except in the case of a request for replacement of an assignment in the Region 2 Plan) and entered in the Region 2 Plan, or under § 4.1.3 and entered in the Regions 1 and 3 List, shall also be removed from the Plan or the List according to the case. The Bureau does not need to recalculate the affected administration(s) as a result of the above-mentioned cancellation.

2 See also Rules of Procedure concerning Receivability of the Forms of Notice.

4.1.7

Any request by an administration to be included in the list of administrations to be published shall be based only on technical reasons to be verified using Annex 1 as well as other relevant Annexes. If this indicates that the requesting administration should have been included in the list, the Bureau will include it; otherwise the requesting administration will be informed that its name will not be published, it being left to the notifying administration to consider if it is appropriate to take the request into account.

4.1.7bis

The agreement referred to in § 4.1.7bis is the agreement of the administrations identified under § 4.1.1 and of those under § 4.1.7 which have been confirmed by the Bureau using the appropriate criteria.

¹ In the absence of a clear indication of the precise frequency of each carrier within the assigned frequency band, the Bureau uses in its analysis the assigned frequency band (i.e. data item C.3 a) of Annex 2A of Appendix 4) instead of the necessary bandwidth (i.e. data item C.7 a) of Annex 2A of Appendix 4).

4.1.8

An administration which has only requested additional information in accordance with § 4.1.8 or § 4.2.12 will not be considered by the Bureau to have submitted comments in accordance with § 4.1.10 or § 4.2.14 respectively.

4.1.11

See also comments under § 4.1.3 and 4.2.6 and Rules of Procedure relating to the Receivability of the Forms of Notice.

Note: WRC-15 took the decision related to the RoP on paragraph 4.1.11 of RR Appendices 30 and 30A during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, approval of Doc. CMR15/416 in relation to Section 3.2.6.4 of Doc. 4 (Add2) (Rev1), as follows:

“In Section 3.2.6.2 of Doc. 4 (Add2) (Rev1), the Director described the current practice of the Bureau in examining Part B submissions received under § 4.1.12 of Appendices 30 and 30A:

The Bureau identifies a list of administrations whose assignments are considered as being affected and receiving more interference as a result of the modification than that produced by the initial proposal in accordance with § 4.1.11. The Bureau then requests the notifying administration to modify the submitted characteristics in order to eliminate the above-mentioned identification or to apply again the provisions of § 4.1 of Appendices 30 and 30A.

In reply to the Bureau’s request, some administrations have provided the Bureau with the agreement of the administration identified under § 4.1.11.

As the agreement to accept more interference has been provided and § 4.1.11 does not explicitly prevent this possibility, the Bureau has not rejected such agreements.

WRC-15 endorsed the current BR practice outlined in this section.” (MOD RRB17/74)

4.1.15

The second part of these paragraphs applies only to those assignments for which the procedure of Article 4 has been successfully applied, i.e., all administrations identified by the Bureau in application of § 4.1.5 or 4.2.8 and § 4.1.7 or 4.2.10 have either given their agreement or failed to comment on the proposed new or modified assignment to the Regions 1 and 3 feeder-link List(s) or on the proposed modification to the Region 2 Plan.

The Bureau shall update the reference situation of the Regions 1 and 3 feeder-link Plan(s) and List(s) or of the Region 2 Plan entries and of those networks which are the subject of requests for new or modified assignment to the Regions 1 and 3 feeder-link List(s) or for Region 2 Plan modifications which are still at the stage of application of Article 4. Nevertheless, the Bureau does not need to recalculate the affected administration(s) as a result of the above-mentioned update.

4.1.23

If the assignments in question were deleted from the Regions 1 and 3 feeder-link List(s) or the Region 2 Plan, the Bureau shall update the reference situation of the assignments in the Regions 1 and 3 feeder-link Plan(s) and List(s) or in the Region 2 Plan and of the assignments under Article 4 procedure and inform all administrations of the action taken together with Special Sections published as a result of cancellation of frequency assignments from the Regions 1 and 3 feeder-link List(s) or the Region 2 Plan. The Bureau does not need to recalculate the affected administration(s) as a result of the above-mentioned cancellation.

4.2.1 a)

This paragraph refers to the modification in the sense of a change to “the characteristics of any of its frequency assignments in the FSS which are shown in the Region 2 feeder-link Plan”. The Plan as it appears in Article 9 contains only eight characteristics, while Annex 2 contains a greater number of characteristics which were used by the RARC-SAT-R2 (Geneva, 1983) Conference to establish the Plan. The Board considers that modifications of characteristics other than those listed in Article 9 may be considered as modifications to the Plan. These other characteristics are listed in the Rules of Procedure relating to § 5.2.1 b) of Article 5.

TABLE 1 (MOD RRB16/58)

Wanted assignment	Interfering assignment	Method to be applied
“Standard” ¹ analogue	“Standard” analogue	As defined in Annex 3 to Appendix 30A
“Non-standard” analogue	“Standard” analogue	As described in the Bureau’s MSPACE Manual
“Standard” analogue	“Non-standard” analogue	As described in the Bureau’s MSPACE Manual
“Non-standard” analogue	“Non-standard” analogue	As described in the Bureau’s MSPACE Manual
Digital	“Standard” or “non-standard” analogue	As described in the Bureau’s MSPACE Manual
“Standard” or “non-standard” analogue	Digital	As defined in Recommendation ITU-R BO.1293-2 ²
Digital	Digital	As defined in Recommendation ITU-R BO.1293-2 ²

¹ The standard analogue assignments mentioned in the Table 1 above are those assignments in the Region 2 Plan with 24 MHz bandwidth, 14.58 MHz channel spacing and the assigned frequencies as specified in Article 9 of Appendix 30A.

² Recommendation ITU-R BO.1293-2 (Annexes 1 and 2) is applied which is referred to in § 3.4 of Annex 5 to Appendix 30 and § 3.3 of Annex 3 to Appendix 30A.

3

Power-control

Paragraph 3.11 of Annex 3 to Appendix 30A describes the method, propagation model and procedures for determination of the power control value of an assignment in the Plan of Regions 1 and 3. WRC-15 clarified that the use of power control should be extended to assignments in the Regions 1 and 3 List. Therefore, the Board decided that, whenever an assignment is included in the Regions 1 and 3 feeder-link List with a request to use power control with a power control value included in the Part B filing submitted in accordance with § 4.1.12 of Article 4 of Appendix 30A, the Bureau shall apply the procedure described below in respect of the request.

1. The Bureau shall apply the method and procedures contained in § 3.11 of Annex 3 to Appendix 30A to calculate the power control value for the relevant assignment at the time of that assignment entering into the List. At the same time, the Bureau shall identify any other administrations whose feeder-link Equivalent Protection Margin is reduced due to the use of power control by the subject assignment.
2. The Bureau shall consult the notifying administration of the subject assignment as to which value of power control should be used if the submitted value is less than the calculated one.
3. The Bureau shall then include the final value of power control for the subject assignment in a Part B Special Section published in accordance with § 4.1.15 of Article 4 of Appendix 30A.

4. When the above-mentioned Part B Special Section is published, the Bureau shall inform the other administrations identified under 1 above of the reduction of their feeder-link Equivalent Protection Margin. (MOD RRB17/74)

Note: WRC-15 took the decision related to the RoP on Annex 3 of Appendix **30A** during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, approval of Doc. CMR15/416 in relation to Section 3.2.6.2 of Doc. 4 (Add2) (Rev1), as follows:

“WRC-15 clarified that the use of power control should be extended to assignments in the Region 1 and 3 List and the corresponding RoP should be modified accordingly.” (ADD RRB16/58)

An. 4

(ADD RRB17/74)

Criteria for sharing between services

Note: WRC-15 took the decision related to the power density used for the calculation of $\Delta T/T$ under § 2 of Annex 4 to RR Appendix **30A** during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, approval of Doc. CMR15/416 in relation to Section 3.2.6.11 of Doc. 4 (Add2) (Rev1), as follows:

*“In Section 3.2.6.11 of Doc. 4 (Add2) (Rev1), the Director sought confirmation by the conference to use the maximum power density per hertz averaged over the worst 1 MHz in the $\Delta T/T$ calculation specified in Section 2 of Annex 4 to Appendix **30A**.”*

WRC-15 considered and confirmed the approach presented in this section.”

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.

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-07)** 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

(ADD RRB17/74)

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 obtaining an explicit agreement from that administration, 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

(ADD RRB12/60)

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.

6.25 to 6.29

(ADD RRB17/74)

Note: WRC-15 took the decision related to the provisional entry of converted assignment in RR Appendix **30B** List during the 8th Plenary, Par. 1.39 to 1.42 of Doc. CMR15/505, approval of Doc. CMR15/416 in relation to Section 3.2.7.1 of Doc. 4 (Add2) (Rev1), as follows:

“In Section 3.2.7.1 of Doc. 4 (Add2) (Rev1), the Director sought confirmation by the conference of the following course of action:

*When an assignment converted from an allotment of Appendix **30B** Plan enters in the List provisionally, the initial allotment will not be suppressed from the Plan until the entry in the List of the assignment becomes definitive. When the converted assignment is reinstated, the notifying administration should choose either to keep its initial allotment in the Plan or reinstate with characteristics in the List to replace the initial allotment. In the latter case, the conditions described in § 6.26 to § 6.29 of Article 6 of Appendix **30B** shall continue to be applied to the reinstated allotment (i.e. has the same status of the cancelled assignment).*

WRC-15 considered and confirmed the course of action presented in this section.”

Art. 7**Procedure for the addition of a new allotment to the Plan
for a new Member State of the Union****7.3****New allotment to the Plan for a new Member State of the Union**

1 Provision § 7.3 of Appendix **30B** requests the Bureau to identify appropriate technical characteristics and associated orbital locations for a prospective national allotment upon receipt of a request from a new Member State.

The Bureau shall apply the procedures described below to find an appropriate orbital position for an allotment in the Appendix **30B** Plan for a new Member State.

2 The Bureau shall ensure that all submitted test-points are located within the national territory of the new Member State. Test-point locations shall be verified using the ITU Digitized World Map. In addition, in the absence of a height above sea level, a value of zero metres shall be assumed by the Bureau.

PART B

SECTION B6

(MOD RRB17/74)

Rules concerning criteria for applying the provisions of No. 9.36 to a frequency assignment in the terrestrial services whose allocation or identification is governed by Nos. 5.292, 5.293, 5.295, 5.296A, 5.297, 5.308, 5.308A, 5.309, 5.323, 5.325, 5.326, 5.341A, 5.341C, 5.346, 5.346A, 5.429D, 5.429F, 5.430A, 5.431A, 5.431B, 5.432B and 5.434¹

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

2 For identification of the administrations whose agreement may need to be obtained, in the context of the provisions of Nos. **5.292, 5.293, 5.295, 5.296A, 5.297, 5.308, 5.308A, 5.309, 5.323, 5.325, 5.326, 5.341A, 5.341C, 5.346, 5.346A, 5.429D** and **5.429F**, the following criteria are applied:

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

¹ See also Rules of Procedure to Nos. **5.312A, 5.316B, 5.341A** and **5.346**.

TABLE 1

Applicability of No. 9.21 (MOD RRB17/74)

Footnote	Frequency band (MHz)	Allocated service (No. 9.21)	Protected service
5.292 ¹	470-512	FS, MS	BS
5.293 ¹	470-512 and 614-806	FS, MS	BS
5.295	470-512	LMS (IMT)	BS, FS
	512-608	LMS (IMT)	BS
5.296A	470-698	LMS (IMT)	BS, FS
	585-610	LMS (IMT)	RNS
5.297	512-608	FS, MS	BS
5.308	614-698	MS	BS
5.308A	614-698	MS (IMT)	BS
5.309 ¹	614-806	FS	BS, MS
5.323	862-960	ARNS	FS, MS
5.325 ¹	890-942	RLS	FS, MS
5.326 ¹	903-905	LMS, MMS	FS
5.341A ²	1 429-1 452	LMS (IMT)	AMS
	1 492-1 518		
5.341C	1 429-1 452	LMS (IMT)	AMS
	1 492-1 518		
5.346 ²	1 452-1 492	LMS (IMT)	AMS
5.346A	1 452-1 492	LMS (IMT)	AMS
5.429D	3 300-3 400	LMS (IMT)	RLS
5.429F	3 300-3 400	LMS (IMT)	RLS
5.430A	3 400-3 600	LMS, MMS	FS, FSS
5.431A and 5.432B	3 400-3 500	LMS, MMS	FS, FSS
5.431B	3 400-3 600	LMS (IMT)	FS, FSS
5.434	3 600-3 700	LMS (IMT)	FS, FSS

¹ Different category of service.

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

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

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

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

TABLE 2

Coordination trigger field strengths for protection of BS

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

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

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

3.4 For the protection of the fixed and mobile services, from the radionavigation and radiolocation services, in the context of the provisions of Nos. **5.323** and **5.325**, propagation curves from Recommendation ITU-R P.528-3 are used in connection with the following data:

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

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

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

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

3.7 For protection of the radiolocation service in the frequency band 3 300-3 400 MHz from IMT in the context of the provisions of Nos. **5.429D** and **5.429F**, the coordination distance is contained in Table 3.

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

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

NOTE – The coordination distance was calculated using the propagation curves of Recommendation ITU-R P.528-3 for 1% of time and 50% of locations with the interference level of -107 dBm for protection of the airborne radar at the height of 10 000 m derived from Recommendation ITU-R M.1465-2. A reference IMT Advanced station was assumed as having radiated power of 31 dBW (e.i.r.p.) and a bandwidth of 10 MHz as used in Report ITU-R M.2292-0.

3.8 For the protection of the fixed and fixed-satellite services in the frequency bands between 3 400 MHz and 3 700 MHz from the mobile, except aeronautical mobile, service in the context of the provisions of Nos. **5.430A**, **5.431A** and **5.432B**, and from IMT in the context of the provisions of Nos. **5.431B** and **5.434**, the power flux density of $-154.5 \text{ dB(W/m}^2 \cdot 4 \text{ kHz)}^2$ produced at the height of 3 m above ground level is used.

Based on the above pfd value the coordination distances are calculated using Recommendation ITU-R P.452-16 for 20% of time with smooth Earth terrain profile. (ADD RRB17/74)

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