

# WRC-07 Agenda item 1.12 – ECPs

## PART A

### Provisions of No. 9.11A

#### 1. Introduction

Europe considers that the Radio Regulations should ideally be self-contained (i.e. any Rules of Procedure should be avoided), as far as possible and WRC-07 agenda item 1.12 should be used as an opportunity to incorporate relevant and suitable Rules of Procedure into the Radio Regulations. In the case of the provisions of No. 9.11A, two elements contained in the Rules of Procedure have been considered as suitable for transfer into the Radio Regulations (RR).

#### 1.1 Application of the provisions of No. 9.14

The Rule of Procedure on No. 9.14 specifies that “No. 9.14 applies to space-to-Earth frequency allocations only, i.e. coordination of a transmitting space station in respect of receiving terrestrial stations when the threshold value is exceeded. In the absence of threshold value, the provisions of No. 9.50.1 could apply (see also Appendix 5)”.

Considering that this Rule has not raised difficulties and can be translated in RR text, it is proposed to amend the wording of No. 9.14 to reflect the Rule of Procedure. Consequently, the Rules of Procedure on No. 9.14 related to this aspect would not need to be retained.

#### 1.2 Application of No. 9.11A regarding the category of services

§1 of Appendix 5 stipulates that “For the purpose of effecting coordination under Article 9, except in the case under No. 9.21, and for identifying the administrations with which coordination is to be effected, the frequency assignments to be taken into account are those in the same frequency band as the planned assignment, pertaining to the same service or to another service to which the band is allocated with equal rights or a higher category of allocation, which might affect or be affected, as appropriate.”\*

However, footnote 1 stipulates that “the coordination between an earth station and terrestrial stations under Nos. 9.15, 9.16, 9.17, 9.18 and 9.19, or between earth stations operating in opposite directions of transmission under 9.17A, applies only to assignments in bands allocated with equal rights”\*.

In addition, the Rules of Procedure on No 9.11A (see §2.3) specify that “the Board concluded that the procedure is applicable to all other space and terrestrial services with respect to those satellite services having allocations with equal rights and mentioned in the specific footnotes to which this provision applies”\*. These Rules have been in force since 2001 but, since 1992, the practice of the BR has been to examine coordination under Nos. 9.11A-9.14 between services with equal status only. This discrepancy between the Radio Regulations and the Rules of Procedure has been brought to the attention of WRC-03 under agenda item 7.1, but, due to *inter alia* the lack of proposals from the Member States, the Conference did not consider the issue.

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It is therefore proposed to reflect in the Radio Regulations that coordination under No. 9.11A only applies between services allocated with equal rights.

## 2. Proposals

Below are proposed modifications to Article 9 and Appendix 5 to reflect the proposals above.

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9.14 i) for a transmitting space station of a satellite network for which the requirement to coordinate is included in a footnote to the Table of Frequency Allocations referring to this provision or to No. 9.11A in respect of receiving stations of terrestrial services where the threshold value is exceeded; (WRC-07)

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*Reasons: to incorporate the Rule of Procedure on No. 9.14 which specifies that No. 9.14 applies in the space-to-Earth direction only.*

Also, appropriate ways should be studied to reflect in the Radio Regulations that the provisions of No. 9.11A only apply between services allocated with equal rights. Footnote 1 of §1 of Appendix 5 is proposed to be modified as follows:

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<sup>1</sup> The coordination procedures under Nos. 9.11A to 9.19, apply only between assignments in services to which the band is allocated with equal rights.

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*Reasons:*

- to transfer the Rules of Procedure on No. 9.11A to indicate that the provisions of No. 9.11A (i.e. Nos. 9.11A to 9.16) apply only between services allocated with equal rights
- the reference to “stations operating in opposite direction of transmission under No. 9.17A” is not needed as the wording of No. 9.17A is already explicit.

## Coordination arc

### **1. Introduction**

WRC-03 adopted a provisional value of  $\pm 16^\circ$  as the coordination arc applicable for the BSS and between the BSS and the FSS in bands above 17.3 GHz.

Resolution 901 (WRC-03) invites ITU-R “to recommend, as appropriate, the orbital separation required for triggering inter-service and intra-service coordination concerning the satellite services in frequency bands above 3.4 GHz for geostationary-satellite (GSO) networks not subject to a Plan and not already covered by the coordination arc concept specified in No. 9.7 (GSO/GSO) of Table 5-1 (Appendix 5), under items 1), 2) and 3) of the frequency band column, and subject to Section II of Article 9”.

Pursuant to this Resolution, the studies performed within ITU-R have led to the conclusion that:

- a coordination arc value of  $\pm 16^\circ$  is appropriate among GSO BSS networks serving Region 2 in the band 17.3-17.8 GHz and associated feeder-link networks in the band 24.75-25.25 GHz;
- a coordination arc value of  $\pm 8^\circ$  is sufficient between GSO BSS networks serving Region 2 and GSO FSS (space-to-Earth) networks serving Region 1 in the band 17.3-17.8 GHz.

Since the second conclusion (coordination arc value of  $\pm 8^\circ$ ) essentially relies on the natural geographic separation between the land masses of Regions 1 and 2, it is possible to extend it to the case of coordination between GSO BSS networks serving Region 2 and GSO FSS networks serving Region 3 in the band 17.7-17.8 GHz.

In addition, considering footnote No. 5.517, after 1 April 2007, the FSS (space-to-Earth) in Region 2 shall not claim protection from, nor cause harmful interference to the BSS serving Region 2 in the band 17.7-17.8 GHz. It is therefore possible to introduce a coordination arc value of  $\pm 8^\circ$  between GSO BSS networks serving Region 2 and GSO FSS (space-to-Earth) networks serving the three Regions, while noting that No. 5.517 applies in Region 2.

### **2. Proposal**

It is proposed:

- to introduce a coordination arc value of  $\pm 8^\circ$  between GSO BSS networks serving Region 2 and GSO FSS (space-to-Earth) networks serving Region 1 in the band 17.3-17.7 GHz,
- to introduce a coordination arc value of  $\pm 8^\circ$  between GSO BSS networks serving Region 2 and GSO FSS (space-to-Earth) networks in the band 17.7-17.8 GHz, while noting that No. 5.517 applies in Region 2.

Below are proposed modifications to Appendix 5 and Article 9:

#### APPENDIX 5 (Rev.WRC-03)

#### **Identification of administrations with which coordination is to be effected or agreement sought under the provisions of Article 9**

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TABLE 5-1 (REV.WRC-03)

**Technical conditions for coordination**  
(see Article 9)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.7 GSO/GSO	A station in a satellite network using the geostationary-satellite orbit (GSO), in any space radiocommunication service, in a frequency band and in a Region where this service is not subject to a Plan, in respect of any other satellite network using that orbit, in any space radio-communication service in a frequency band and in a Region where this service is not subject to a Plan, with the exception of the coordination between earth stations operating in the opposite direction of transmission	1) 3 400-4 200 MHz 5 725-5 850 MHz (Region 1) and 5 850-6 725 MHz 7 025-7 075 MHz  2) 10.95-11.2 GHz 11.45-11.7 GHz 11.7-12.2 GHz (Region 2) 12.2-12.5 GHz (Region 3) 12.5-12.75 GHz (Regions 1 and 3) 12.7-12.75 GHz (Region 2) and 13.75-14.5 GHz	i) Bandwidth overlap, and  ii) any network in the fixed-satellite service (FSS) and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 10^\circ$ of the nominal orbital position of a proposed network in the FSS  i) Bandwidth overlap, and  ii) any network in the FSS or broadcasting-satellite service (BSS), not subject to a Plan, and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 9^\circ$ of the nominal orbital position of a proposed network in the FSS or BSS, not subject to a Plan		With respect to the space services listed in the threshold/condition column in the bands in 1), 2), 3), 4), <del>5), 6) and 7)</del> , an administration may request, pursuant to No. 9.41, to be included in requests for coordination, indicating the networks for which the value of $\Delta T/T$ calculated by the method in § 2.2.1.2 and 3.2 of Appendix 8 exceeds 6%. When the Bureau, on request by an affected administration, studies this information pursuant to No. 9.42, the calculation method given in § 2.2.1.2 and 3.2 of Appendix 8 shall be used

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TABLE 5-1 (CONTINUED) (REV.WRC-03)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.7 GSO/GSO (cont.)		3) 17.7-20.2 GHz, (Regions 2 and 3), 17.3-20.2 GHz (Region 1) and 27.5-30 GHz	i) Bandwidth overlap, and ii) any network in the FSS and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 8^\circ$ of the nominal orbital position of a proposed network in the FSS		
		4) <u>17.3-17.7 GHz (Regions 1 and 2)</u>	i) <u>Bandwidth overlap, and</u> ii) a) <u>any network in the FSS and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of <math>\pm 8^\circ</math> of the nominal orbital position of a proposed network in the BSS</u>  <u>or</u> b) <u>any network in the BSS and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of <math>\pm 8^\circ</math> of the nominal orbital position of a proposed network in the FSS</u>		
		5) <u>17.7-17.8 GHz</u>	i) <u>Bandwidth overlap, and</u> ii) a) <u>any network in the FSS and any associated space operation</u>		

			<p><u>functions (see No. 1.23) with a space station within an orbital arc of <math>\pm 8^\circ</math> of the nominal orbital position of a proposed network in the BSS.</u></p> <p><i>or</i></p> <p><u>b) any network in the BSS and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of <math>\pm 8^\circ</math> of the nominal orbital position of a proposed network in the FSS.</u></p> <p>NOTE – No. 5.517 applies in Region 2.</p>		
		<p>6) Bands above 17.3 GHz, except those defined in § 3)</p>	<p>i) Bandwidth overlap, and</p> <p>ii) any network in the FSS and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of <math>\pm 8^\circ</math> of the nominal orbital position of a proposed network in the FSS (see also Resolution <b>901 (WRC-03)</b>)</p>		Deleted: 4
		<p>7) Bands above 17.3 GHz <u>except those defined in § 4) and 5)</u></p>	<p>i) Bandwidth overlap, and</p> <p>ii) any network in the FSS or BSS, not subject to a Plan, and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of <math>\pm 16^\circ</math> of the nominal orbital position of a proposed network in the FSS or BSS, not subject to a Plan, except in the case of a network in the FSS with respect</p>		Deleted: 5

to a network in the FSS (see also Resolution **901 (WRC-03)**)

TABLE 5-1 (CONTINUED) (REV.WRC-03)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.7 GSO/GSO (cont.)		<p>8) All frequency bands, other than those in 1), 2), 3), 4), 5), 6) and 7), allocated to a space service, and the bands in 1), 2), 3), 4), 5), 6) and 7) where the radio service of the proposed network or affected networks is other than the space services listed in the threshold/condition column, or in the case of coordination of space stations operating in the opposite direction of transmission</p>	<p>i) Bandwidth overlap, and</p> <p>ii) Value of <math>\Delta T/T</math> exceeds 6%</p>	Appendix 8	<p>In application of Article 2A of Appendix 30 for the space operation functions using the guardbands defined in § 3.9 of Annex 5 of Appendix 30, the threshold/condition specified for the FSS in the bands in 2) applies.</p> <p>In application of Article 2A of Appendix 30A for the space operation functions using the guardbands defined in § 3.1 and 4.1 of Annex 3 of Appendix 30A, the threshold/condition specified for the FSS in the bands in 4) applies</p>

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## ARTICLE 9

### Procedure for effecting coordination with or obtaining agreement of other administrations<sup>1, 2, 3, 4, 5, 6, 7, 8</sup> (WRC-03)

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**9.41** Following receipt of the BR IFIC referring to requests for coordination under Nos. **9.7** to **9.7B**, an administration believing that it should have been included in the request or the initiating administration believing that an administration identified under No. **9.36** in accordance with the provisions of No. **9.7** (GSO/GSO) (items 1) to 8, of the frequency band column), No. **9.7A** (GSO earth station/non-GSO system) or No. **9.7B** (non-GSO system/GSO earth station) of Table 5-1 of Appendix 5 should not have been included in the request, shall, within four months of the date of publication of the relevant BR IFIC, inform the initiating administration or the identified administration, as appropriate, and the Bureau, giving its technical reasons for doing so, and shall request that its name be included or that the name of the identified administration be excluded, as appropriate. (WRC-2000)

*Reasons:*

- to introduce with § 4) a coordination arc value of  $\pm 8^\circ$  in the band 17.3-17.7 GHz to trigger the coordination between FSS networks serving Region 1 and BSS networks serving Region 2.
- To introduce with § 5) a coordination arc value of  $\pm 8^\circ$  in the band 17.7-17.8 GHz to trigger the coordination between BSS networks serving Region 2 and FSS networks while recalling footnote No. **5.517** which specifies that, after April 2007 in Region 2, use of the FSS (space-to-Earth) shall not claim protection from and shall not cause harmful interference to operating systems in the BSS.

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## Provisions of No. 11.47

### 1. Introduction

WRC-03 suppressed

- the possibility of extension of the notified date of bringing into use previously mentioned in No. 11.44 by specifying a fixed maximum period of 7 years from the date of receipt of the API for bringing into use of an assignment; and
- the conditions for the extension previously mentioned in Nos. 11.44B to 11.44I.

WRC-03 also revised a number of provisions in Articles 9 and 11 to take into account these suppressions; however WRC-03 may have omitted to review the provisions of No. 11.47 in light of these decisions.

In addition, No. 11.47 states that “*Any frequency assignment provisionally recorded under this provision shall be brought into use by the date specified in the notice”\*. It is recognized that the date of bringing into use specified in the notice is an anticipated date, subject to change. In fact, the Rule of Procedure on No. 11.47 provides the notifying administration with the possibility to modify this expected date of bringing into use without any justification, within the limits prescribed in No. 11.44. Therefore, the assignment should not be cancelled if it is not brought into use by this expected date, but only the non-respect of the 7-year period should lead to cancellation.*

No. 11.47 also refers to the provisional recording of assignments to terrestrial stations, as it mentions the extension provided under No. 11.45, as well as earth stations. It is proposed that no change should be made in this area.

### 2. Proposal

It is proposed to modify the provisions of No. 11.47 to suppress the reference to any extension granted under No. 11.44, pursuant to WRC-03 decision to modify No. 11.44.

It is also proposed to remove the requirement to bring into use assignments to space stations provisionally recorded in the Master Register by the date specified in the notice, as this date is considered as a planned date of bringing into use and the only regulatory deadline is the latest date provided by No. 11.44. Under this approach, the Bureau sends a reminder only when the administration fails to advise the Bureau that the provisionally recorded assignment have been brought into use in accordance with No. 11.44.

Finally, it is proposed not to amend the provisions of No. 11.47 in respect of earth stations and terrestrial services.

A proposed modification of No. 11.47 is provided below.

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**11.47** All frequency assignments notified in advance of their being brought into use shall be entered provisionally in the Master Register. Any frequency assignment to a space station provisionally recorded under this provision shall be brought into use no later than the end of the

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period provided under No. 11.44. Any other frequency assignment provisionally recorded under this provision shall be brought into use by the date specified in the notice, or by the extension granted under No. 11.45, as the case may be. Unless the Bureau has been informed by the notifying administration of the bringing into use of the assignment, it shall, no later than fifteen days before the notified date of bringing into use, in the case of an earth station, or the end of the regulatory period established under No. 11.44 or No. 11.45, as appropriate, send a reminder requesting confirmation that the assignment has been brought into use within the regulatory period. If the Bureau does not receive that confirmation within thirty days following the notified date of bringing into use, in the case of an earth station, or the period provided under No. 11.44 or No. 11.45, as the case may be, it shall cancel the entry in the Master Register. The Bureau shall inform the administration concerned before taking such action.

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**Deleted:** Within thirty days of such an assignment being brought into use, the notifying administration shall so inform the Bureau. If the Bureau does not receive that confirmation within the above period, after sending a reminder, it shall cancel the entry.

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With the proposed modification, the relevant Rules of Procedure that may become unnecessary should be proposed for suppression.

*Reasons:*

- there is a need to make No. 11.47 consistent with the decision of WRC-03 to suppress the extension previously granted under No. 11.44;
- because the notified date of bringing into use is only a planned date that can be changed, but only within the period provided for in No. 11.44, and the end point of that period shall be used in relation to the cancellation of an assignment;
- the procedure to be followed by the administrations and the Bureau needs to be clarified in the Radio Regulations, taking into account the practice contained in the Rules of Procedure.

## Footnote 5.538

### 1. Introduction

Footnote 5.538 makes reference to the application of pfd limits contained in Table 21-4 of Article 21 in the band 27.500-27.501 GHz whereas Table 21-4 does not contain this frequency band.

It is proposed to add the band 27.500-27.501 GHz in Table 21-4 of Article 21 to make it consistent with the provisions of No. 5.538. It is also proposed that the pfd limits applicable in this specific band be those applicable in the 25.25-27.5 GHz band. This approach has been followed by the Radiocommunication Bureau and agreed by the ITU-R groups concerned. Also, this has confirmed that they use the pfd limits in the 25.25-27.5 GHz band to examine the assignments in the FSS (space-to-Earth) in the 27.5-27.501 GHz band.

### 2. Proposals

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TABLE 21-4 (continued) (WRC-03)

Frequency band	Service*	Limit in dB(W/m <sup>2</sup> ) for angle of arrival ( $\delta$ ) above the horizontal plane			Reference bandwidth
		0°-5°	5°-25°	25°-90°	
...					
19.3-19.7 GHz	Fixed-satellite (space-to-Earth)	-115	$-115 + 0.5(\delta - 5)$	-105	1 MHz
22.55-23.55 GHz	Earth exploration-satellite (space-to-Earth)				
24.45-24.75 GHz	Inter-satellite				
25.25-27.5 GHz	Space research (space-to-Earth)				
27.500-27.501 GHz	Space research (space-to-Earth)				

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**5.538** *Additional allocation:* the bands 27.500-27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit.

**Deleted:** In the band 27.500-27.501 GHz, such space-to-Earth transmissions shall not produce a power flux-density in excess of the values specified in Article 21, Table 21-4 on the Earth's surface.

*Reasons:* the limits in Table 21-4 apply, irrespective of whether they are mentioned in a footnote to Article 5. Therefore, their mention in this footnote is considered redundant and unnecessary.

## Provisions of No. 22.2

### 1. Introduction

No. 22.2 is the provision that governs the sharing between non-geostationary satellite (non-GSO) systems vis-à-vis geostationary satellite (GSO) networks in the fixed-satellite service (FSS) and the broadcasting-satellite service (BSS), unless otherwise specified in the Radio Regulations. However, it does not fully clarify the respective status of non-GSO systems and GSO networks.

The application of No 22.2 has been reviewed by various WRCs in specific cases and the approach retained by WRCs has always been consistent: either non-GSO systems and GSO networks are put on an equal footing (i.e. non-application of No 22.2 and introduction of a coordination mechanism), or non-GSO systems shall not cause unacceptable interference to nor claim protection from GSO networks (No 22.2 continues to apply). This latter case is not a new concept in the Radio Regulations and fully clarifies the status of non-GSO systems vis-à-vis GSO networks in those specific cases where No 22.2 applies.

### 2. Proposal

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**22.2** § 2 1) Non-geostationary-satellite systems shall not cause unacceptable interference to, ~~and shall not claim protection from geostationary-satellite networks in the fixed-satellite service~~ and the broadcasting-satellite service operating in accordance with these Regulations, No. 5.43A ~~does not apply in this case.~~ (WRC-07)

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*Reason*

It is proposed to modify No 22.2 so that non-GSO systems shall not cause unacceptable interference to GSO FSS and BSS networks (as already stipulated), and shall not claim protection from these GSO networks.

## **Resolution 86 (WRC-03)**

### **1. Introduction**

After considering different proposals relating to Resolution 86 (Rev. Marrakech, 2002), including proposed suppression and updating, the 2006 Plenipotentiary Conference concluded its discussions by retaining unchanged the text of this Resolution and invited WRC-07 to consider further the matter of inviting future WRCs to implement the objective of this Resolution.

Resolution 86 (Rev. Marrakech, 2002) deals with the review and update of the various procedures (advance publication, coordination, notification and recording in the MIFR) for frequency assignments pertaining to satellite networks. This Resolution was adopted by the 1998 Plenipotentiary Conference after an in-depth review of these procedures was conducted by the VGE (Voluntary Group of Experts), which led to profound modifications in the Radio Regulations. The main purpose of this Resolution is to invite the WRCs to review and update the various steps in the regulatory procedures for space networks/systems.

PP-02 modified this Resolution by settling the global framework of the review of the space procedures, including aspects related to equitable access to the orbit/spectrum resource and to cost savings in BR and the administrations. PP-02 also invited WRC-03 to determine the scope and criteria to be used for the implementation of Resolution 86 (Rev. Marrakesh, 2002).

In response to this invitation, WRC-03 adopted Resolution 86 (WRC-03) which contains the various criteria to be used in the context of the corresponding WRC agenda item.

It is considered that Resolution 86 of the Plenipotentiary Conference is necessary in order that WRCs continuously update the space procedures and pursue their review within the framework established by the Plenipotentiary Conference. This Resolution is necessary for administrations to study these procedures and make necessary/relevant proposals to remove deficiencies and inconsistencies in the corresponding provisions of the Radio Regulations.

It is necessary that WRCs continuously update the procedures for satellite networks/systems and pursue their review within the framework established by Resolution 86 of the Plenipotentiary Conference. Such framework is necessary for administrations to study these procedures and submit necessary/relevant proposals to WRCs in order to remove deficiencies and inconsistencies in the corresponding provisions of the Radio Regulations. Retaining a Resolution at the level of the Plenipotentiary Conference ensures a permanent item on WRC agendas, by adequately taking care of the issue of the orbit/spectrum access, as referred to in Article 44 of the ITU Constitution. In addition, Resolution **86 (WRC-03)** provides a suitable framework for the implementation of Resolution 86 (Rev. Marrakesh, 2002) by defining the scope of the agenda item and listing the various criteria to be applied. Combining this agenda item with the permanent item dealing with the report of the Director of the BR would deprive the administrations of their rights to submit their own proposals, as the Director is free to include in his report only the issues he wishes to raise at the WRC.

### **2. Proposals**

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**NOC**

## RESOLUTION 86 (WRC-03)

### SCOPE AND CRITERIA TO BE USED FOR THE IMPLEMENTATION OF RESOLUTION 86 (REV. MARRAKESH, 2002) OF THE PLENIPOTENTIARY CONFERENCE

#### EUR/1.12/XX

It is also proposed that, in response to the request by PP-06, PP-10 be informed that it is essential that administrations should have the possibility to make proposals to WRCs in order to correct anomalies/inconsistencies in the space procedures, as well as update these procedures. Therefore WRC-07 should invite PP-10 to retain the possibility for future WRCs “to review and update the advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, including the associated technical characteristics, and the related appendices of the Radio Regulations etc.” as in Resolution 86 (rev Marrakesh, 2002).

#### *Reasons:*

- Europe is of the view that administrations should be given the opportunity at each WRC to make proposals of their own with a view to correcting anomalies/inconsistencies in the space procedures. A permanent item should therefore be retained on every WRC agenda, allowing administrations to make such proposals.
- Europe is of the view that the invitation to future WRCs should be retained at the level of the Plenipotentiary Conference and considers that Resolution 86 (WRC-03) provides suitable criteria in the implementation of PP Resolution 86. Therefore Resolution 86 (WRC-03) doesn't need to be modified.
- Europe is of the view that the issue of orbit/spectrum access, as referred to in Article 44 of the ITU Constitution, should continue to be handled at the level of a PP Resolution, as it is the only way for WRCs to keep reviewing the space procedures without being jeopardized by a decision by a WRC.
- Furthermore, merging this permanent agenda item with agenda item 7.1 would imply that the Director would be in a position to filter the proposals brought by the administrations and decide to include or not them in his report; such merger would thus deprive the administrations of their rights to submit their own proposals to WRCs.

## Contiguous satellite bandwidth

### 1. Introduction

Item C.8.d.2 "Contiguous satellite bandwidth" was introduced in Appendix 4 in order to cover the specific cases where a transmitting satellite transponder would operate in a multi-carrier mode, where the aggregate bandwidth of the transmitted carriers would be different and lower than the transponder bandwidth. Indeed, in order to take into account out-of-band filtering efficiency of receiving equipments, carriers have to be transmitted with a sufficient frequency separation between themselves.

This item was introduced in Appendix 4 in order to help administrations to conduct coordination in these cases of multi-carrier transmissions.

However, after about two years of practice (revised Appendix 4 entered into force on 1st of January 2004), it appears that the values provided by administrations for this item is most of the time equal to the bandwidth of the assigned frequency band (i.e. transponder bandwidth, item C.3.a). A survey in published data in BR circulars shows that, among the 13201 published groups of assignments, around 84% of the filed values for these two items are identical. Among the 16% of the cases where the values are different, around 19% show a contiguous bandwidth higher than the assigned frequency band. This shows that this item C.8.d.2 may not be clearly understood by all notifying administrations.

### 2. Proposals

#### **EUR/1.12/XX**

It is proposed to modify Annex 2 to Appendix 4, in order to request the submission of item C.8.d.2 only if it is different from the item C.3.a.

Below is provided such a proposal:

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APPENDIX 4 (Rev.WRC-07)

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### ANNEX 2

#### **Characteristics of satellite networks, earth stations or radio astronomy stations** (WRC-07)

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C.8.d.2	each contiguous satellite bandwidth For the maximum saturated peak envelope power of the satellite transponder, this corresponds to the bandwidth of each transponder Required only for a space-to-Earth or space-to-space link, if different from item C.3.a
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#### *Reasons:*

- Alleviate the task of administrations to fill in twice the same values, in 84% of the cases,

- Avoid a burden on the BR to request the missing information to administrations (this frequently appears when administrations submit a copy of a filing that was submitted before 1st of January 2004, thus without this item C.8.d.2),
- Diminish the appearance of inexact entries in the ITU database, in up to 3% of the cases,

## Provisions of No. 22.2

### 1. Introduction

No. 22.2 is the provision that governs the sharing between non-geostationary satellite (non-GSO) systems vis-à-vis geostationary satellite (GSO) networks in the fixed-satellite service (FSS) and the broadcasting-satellite service (BSS), unless otherwise specified in the Radio Regulations. However, it does not fully clarify the respective status of non-GSO systems and GSO networks.

The application of No 22.2 has been reviewed by various WRCs in specific cases and the approach retained by WRCs has always been consistent: either non-GSO systems and GSO networks are put on an equal footing (i.e. non-application of No 22.2 and introduction of a coordination mechanism), or non-GSO systems shall not cause unacceptable interference to nor claim protection from GSO networks (No 22.2 continues to apply). This latter case is not a new concept in the Radio Regulations and fully clarifies the status of non-GSO systems vis-à-vis GSO networks in those specific cases where No 22.2 applies.

### 2. Proposal

EUR/1.12/XX

MOD

**22.2** § 2 1) Non-geostationary-satellite systems shall not cause unacceptable interference to, ~~and shall not claim protection from geostationary-satellite networks~~ in the fixed-satellite service and the broadcasting-satellite service operating in accordance with these Regulations. No. 5.43A ~~does not apply in this case.~~ (WRC-07)

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*Reason*

It is proposed to modify No 22.2 so that non-GSO systems shall not cause unacceptable interference to GSO FSS and BSS networks (as already stipulated), and shall not claim protection from these GSO networks.