



*Radiocommunication Bureau*  
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Circular Letter  
**CCRR/44**

2 July 2012

## **To Administrations of Member States of ITU**

**Subject:** Draft Rules of Procedure to reflect the decisions of WRC-12 and existing rules that may require updates.

### **To the Director General**

Dear Madam/Sir,

At its 59<sup>th</sup> meeting (14-18 May 2012), the Radio Regulations Board considered the impact of WRC-12 decisions on the current Rules of Procedure and agreed on the schedule for considering draft new and modified existing Rules of Procedure on the basis of the document presented by the BR (see Document RRB12-1/4) and other inputs by Board members. The Board instructed the Bureau to proceed accordingly, under the understanding that the schedule may be eventually adjusted on the basis of additional studies (see Revision 3 to Document RRB12-1/4).

The Bureau therefore prepared a first set of draft new or modified Rules of Procedure as a consequence of the decisions of WRC-12 (Annex 1) and draft new Rules of Procedure not related to WRC-12 decisions (Annex 2).

In accordance with No. **13.17** of the Radio Regulations, these draft Rules of Procedure are made available to administrations for comment before being submitted to the RRB pursuant to No. **13.14**. As indicated in No. **13.12A d)** of the Radio Regulations, any comments that you may wish to submit should reach the Bureau not later than **13 August 2012**, in order to be considered at the 60<sup>th</sup> meeting of the RRB, scheduled for 10-14 September 2012. All e-mail comments should be sent to: [brmail@itu.int](mailto:brmail@itu.int).

Yours faithfully,

F. Rancy  
Director, Radiocommunication Bureau

### **Annexes: 2**

#### **Distribution:**

- Administrations of Member States of the ITU
- Members of the Radio Regulations Board
- Director and Heads of Department of the Radiocommunication Bureau

## ANNEX 1

### Rules concerning

#### ARTICLE 5 of the RR

##### SUP

###### 5.316A

*Reason: By modifying the text of No. 5.316A WRC-12 removed all difficulties in the application of this provision by the Bureau.*

*The first paragraph of the RoP dealt with the term “unacceptable interference”. WRC-12 deleted the sentence mentioning “unacceptable interference” from the provision.*

*The second paragraph of the RoP introduced provisional criteria for protection of the aeronautical mobile service operated under No. 5.312 against the mobile service. WRC-12 adopted Resolution 749 (Rev.WRC-12) which contains definitive criteria for the protection of the aeronautical radionavigation service.*

*The third paragraph of the RoP dealt with the obligation for Lithuania and Poland to seek agreement of Belarus and Russian Federation during coordination of the mobile service. WRC-12 deleted this phrase from No. 5.316A.*

*Therefore, the modified text of No. 5.316A, as approved by WRC-12, does not represent any difficulty in application. RoP No. 5.316A is no longer required and can be suppressed.*

*Effective date of suppression of this Rule: 1 January 2013.*

##### MOD

###### 5.327A

1 Appendix 4 does not contain data elements which would enable examination as to whether the notified frequency assignment is associated to a system that operates in accordance with recognized international aeronautical standards or to a system that operates under other standards. As the Bureau has no means to make such differentiation, the Board decided that the Bureau shall make no examination of the notified frequency assignment to a station in the aeronautical mobile (R) service (AM(R)S) from the view point of its conformity with this provision.

2 ~~On the other hand, given the indications in *resolves 2* of Resolution **417 (WRC-07)**, the recording of any such assignment in the MIFR will be associated with the symbol “R” in column 13B2 (“*Finding observation*”) and with symbol “RS417” in column 13B1 (“*Finding reference*”)\*. With respect to the requirements contained in *resolves 2* and *3* of Resolution 417 (Rev.WRC-12), the Board decided that the Bureau shall make no examination of the notified frequency assignment to a station in the AM(R)S from the view point of its conformity with these provisions since Appendix 4 does not contain data elements which would enable to determine whether the notification is related to a Universal Access Transceiver system or to another system in the AM(R)S.~~

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\* ~~The meaning of these data items is provided in the Preface to the BR International Frequency Information Circular.~~

3 With respect to the power limits contained in *resolves* 6 of Resolution 417 (Rev.WRC-12), the Board decided that the Bureau shall check the e.i.r.p. limits for the ground based and airborne stations only for the band 960 – 1164 MHz since frequency assignments to stations in the AM(R)S notified in the band 960 – 1164 MHz do not contain any information concerning out-of-band emissions in the frequency band 1164 – 1215 MHz.

*Reason: WRC-12 revised Resolution 417 (WRC-07). Former resolves 2 imposing a non-interference basis on all AM(R)S systems has been replaced by new resolves 2, which introduced the obligation for all AM(R)S systems, except Universal Access Transceiver, to effect coordination with aeronautical radionavigation systems of some countries. Consequently, it is proposed to delete the last sentence of the current Rule of Procedure on No. 5.327A. The proposed additions are self-explanatory.*

*Effective date of application of the modified Rule: immediately after its approval.*

#### SUP

**5.397**

*Reason: Consequential to suppression of No. 5.397 by WRC-12.*

*Effective date of suppression of this Rule: immediately after its approval.*

#### MOD

**5.399**

~~1 — This provision does not indicate the frequency band in which it is applicable. The Board concluded that it applies in the band 2.483.5-2.500 MHz.~~

2\_ The comments made under the Rules of Procedure concerning No. **5.164** apply.

*Reason: WRC-12 included the frequency band in provision No.5.399.*

*Effective date of application of the modified Rule: immediately after its approval.*

#### SUP

**5.410**

*Reason: The content of this Rule was transferred to No. 5.410 of the Radio Regulations. Consequently, the Rule is no longer required.*

*Effective date of suppression of this Rule: 1 January 2013*

## MOD

### 5.444B

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

2 With respect to the submissions in the aeronautical mobile (R) service, including the ones referred to in the first indent of this provision, and given the indications in *resolves* 1 of Resolution 748 (**Rev.WRC-1207**), the recording of any such assignment in the MIFR will be associated with the symbol “R” in column 13B2 (“*Finding observation*”) and with symbol “RS748” in column 13B1 (“*Finding reference*”). The Board also considered that the indications in *resolves* 3 of Resolution 748 (**Rev.WRC-1207**), including the reference to No. 4.10, are intended for administrations and the Bureau shall make no examination of frequency assignments from the view point of their conformity with the conditions set forth in *resolves* 3 of Resolution 748 (**Rev.WRC-1207**).

3 With respect to the submissions related to aeronautical telemetry transmissions referred to in the second indent of this provision, and in addition to the considerations in § 1 of this Rule of Procedure which are also applicable for aeronautical telemetry applications, the Board considered that the indications in *resolves* 1 and in *resolves* 2 of Resolution 418 (**Rev.WRC-1207**) are intended for administrations and the Bureau shall make no examination of the notified frequency assignment to a station in the aeronautical mobile service from the view point of its conformity with the conditions set forth in Annex 1 to Resolution 418 (**Rev.WRC-1207**).

~~4 With respect to the submissions related to aeronautical security transmissions referred to in the third indent of this provision, and in addition to the considerations in paragraph 1 of this Rule of Procedure which are also applicable for aeronautical security transmissions, the Board considered that the indications in Resolution 419 (WRC-07) are intended for administrations and the Bureau shall make no examination of the notified frequency assignment to a station in the aeronautical mobile service from the view point of its conformity with Resolution 419 (WRC-07).~~

*Reason: The modification of paragraph 1 and deletion of paragraph 4 are consequential to the suppression of the last sentence of No. 5.444B and abrogation of Resolution 419 (WRC-07) by WRC-12. The proposed modifications in paragraphs 2 and 3 are editorial updates.*

*Effective date of application of the modified Rule: 1 January 2013.*

## MOD

### **Rules concerning the Receptibility of forms of notice generally applicable to all notified assignments submitted to the Radiocommunication Bureau in application of the Radio Regulatory Procedures relating to space services**

#### **1 Submission of information in electronic format**

##### 1.1 Space services

The Board noted the requirement for mandatory electronic filing, submission of comments/objections and request for inclusion or exclusion specified in the *resolves* in the context of the associated *considering* and *recognizing* of Resolution 55 (Rev.WRC-1207). It noted also that capture and validation software had been made available to administrations by the Bureau, including software to submit information required in Annex 2 of Resolution 552 (WRC-12). Accordingly, all information indicated in the *resolves* of Resolution 55 (Rev.WRC-12) and in Annex 2 of the Resolution 552 (WRC-12) shall be submitted to the Bureau in electronic format (except graphical data which can still be submitted in paper form), which is compatible with the BR electronic notice form capture software (SpaceCap, SpaceCom ).

~~a) submissions in accordance with Annex 2 to Appendix 4;~~

~~b) due diligence information in accordance with Annex 2 to Resolution 49 (Rev.WRC-07);~~

~~e)\* — comments under the following provisions to the corresponding publications:~~

~~— under No. 9.3 with respect to API published in accordance with No. 9.2B;~~

~~— under § 4.1.7, 4.1.9, 4.1.10, 4.2.10, 4.2.13 or 4.2.14 of Article 4 of Appendices 30 and 30A with respect to the Special Sections published in accordance with § 4.1.5 and § 4.2.8;~~

~~— Article 2A of Appendices 30 and 30A with respect to the request for coordination for the use the guardbands published in Special Section AP30-30A/F/C in accordance with the same provision;~~

~~d)\* — disagreements under No. 9.52 in respect of coordination requests under Nos. 9.11 to 9.14, 9.21 or § 2.1 of Section A of Resolution 33 (Rev.WRC-03)~~

*Reason: WRC-12 updated the Resolution 55(Rev.WRC-12) and included the content of the Rules above into it. Further, WRC-12 introduced a new Resolution 552, which entered into force on 18.02.2012, that requires submission of due diligence information. However, this specific requirement has not been included in the Resolution 55(Rev.WRC-12). In view of the fact that the capture and validation tool for submission of Annex 2 information of Resolution 552 is now available to administrations, it is proposed to make submission of this due diligence information mandatory through the rules of procedure proposed above.*

*Effective date of application of the modified Rule: 1 October 2012*

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\* — *Effective date of application: 1 July 2009.*

## **ADD**

### **1.2 Terrestrial services**

Submission of frequency assignment/allotment notices for terrestrial services in the context of Articles 9, 11, 12 and Appendix 25 of the Radio Regulations and various regional agreements shall be made exclusively via the ITU web interface WISFAT (Web Interface for Submission of Frequency Assignments/allotments) available at <http://www.itu.int/ITU-R/go/wisfat/en>.

## **MOD**

### **2 Receipt of notices<sup>1</sup>**

It is incumbent on all administrations to meet deadlines established in the Radio Regulations and, accordingly, to take account of possible mail delays, holidays or periods during which ITU may be closed<sup>2</sup>.

Having regard to the various means available for transmission and delivery of notices and other related correspondence, the Board has decided that:

- a) Mail received through the postal service<sup>3</sup> shall be recorded as received on the first working day on which it is delivered to the ITU/BR's offices in Geneva. Where the mail is subject to a regulatory time limit that occurs on a date on which the ITU is closed, the mail should be accepted if it has been recorded as received on the first working day following the period of closure.
- b) E-mail, ~~or~~ telefax documents or WISFAT submissions shall be recorded as received on the actual date of receipt, irrespective of whether or not that is a working day at the ITU/BR's offices in Geneva.

## **NOC**

c), d), e), f) and g)

*Reason: WRC-07 adopted Resolution 906 (WRC-07), which resolved that as from 01.01.2009 the submission of notices for terrestrial services shall be in electronic format only. Following this decision the Bureau developed web interface WISFAT for submission of notifications by administrations and informed the Membership about the implementation of this tool by Circular Letter CR/297 of 22.01.2009. WRC-12 updated Resolution 906 (Rev.WRC-12) and confirmed that all electronic submissions for terrestrial services shall be made via secured ITU web interface WISFAT.*

*Effective date of application of the modified Rule: immediately after its approval.*

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<sup>1</sup> ~~Whilst this Rule of Procedure applies to space services, the arrangements referred to in § 2 apply equally to submissions relating to terrestrial services.~~

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

<sup>3</sup> Includes courier, messenger or other services.

**SUP**

**Rules concerning  
APPENDIX 18 to the RR**

*Reason: The content of this RoP was transferred to Appendix 18 to the Radio Regulations. Consequently, the Rules concerning AP18 are no longer required and can be suppressed.*

*Effective date of suppression of this Rule: 1 January 2013*

**Rules concerning  
APPENDIX 30B to the RR**

**Art. 6**

**Procedure for the conversion of an allotment into assignment,  
for the introduction of an additional system or for  
the modification of an assignment in the List**

**ADD**

**6.16**

1. When the Bureau receives an objection to being included in a service area of an assignment from an administration in accordance with §6.16 of Appendix **30B**, the Bureau publishes the modified service area for exclusion of its territory from the service area if the assignment has already been included in the List. If the assignment is at the stage of coordination and not yet included in the List (i.e. published in an AP30B/A6A/ -- Special Section only), the Bureau takes that objection into account in the examination under §6.19 a) when the assignment is submitted by the notifying administration under §6.17. The final characteristics of the assignment in the List (i.e. those published in an AP30B/A6B/-- Special Section) shall not include the territory and test points that are within the territory of the objecting administration in the service area.
2. However, an administration can object to the inclusion of its territory in the service area of an assignment of the other administrations not yet entered in the List and explicitly request that the objection should be taken into account in the examination of its own network submitted under §6.17 of Appendix **30B** in order to facilitate inclusion of the assignments of its own network to be included in the List. In this case, the objection should be considered definitive. The Bureau shall then, in accordance with §6.16 of Appendix **30B**, exclude the territory and test points that are within the territory of that objecting administration from the service area of the assignment objected and publish the modified service area in a modification to the corresponding AP30B/A6A/-- Special Section. The modification to the service area and the deletion of test points shall then be taken into account in the subsequent examinations including examinations under §6.21 and 6.22 of Appendix **30B** of the network submitted by the objecting administration under §6.17 of Appendix **30B**.

*Reason: Similarly to the application of No. 23.13C with respect to assignments under Articles 9 and 11, and Article 4 of Appendix 30, exclusion of the territories of the objecting administrations from the service areas in accordance with §6.16 of Appendix 30B is applied to the final characteristics of the network, i.e. those included in the List, after the coordination process is completed. In view of the work load of the Bureau, it is not practical to publish modifications to the corresponding AP30B/A6A Special Section each time when the Bureau receives an objection under §6.16. In addition, the information of a network published in an AP30B/A6A Special Section in accordance with §6.7 of Appendix 30B is used for coordination among administrations and is subject to changes and the objection to being included in the service area may be withdrawn after the coordination.*

*Before an assignment is entered into the List of Appendix 30B, the notifying administration has to either obtain an agreement from the objecting administrations or exclude the territories of those administrations from the service area in its submission under §6.17 of Appendix 30B. Otherwise, the Bureau will give an unfavourable finding in its examination under §6.19 a) of Article 6 of Appendix 30B and return the submission to the notifying administration. Therefore, it is certain that the territories of the objecting administrations will be excluded from the service area of the assignment in question when it is included in the List of Appendix 30B.*

*As the interference contribution from assignments published in an AP30B/A6A Special Section is not taken into account in the calculation of the reference situations of other assignments, until they are entered in the List, a modification of the service area of assignments published in an AP30B/A6A Special Section has no impact on the identification of affected assignments except those modified.*

*However, an administration might wish to enter an assignment into the List although the required agreement of other administration whose assignment is identified as being affected by the former assignment is still missing. If the objection to include its territory in the service area of the identified assignment can remove this requirement of agreement, it is reasonable to take into account its objection in the examination of the request for inclusion of the assignment in the List because in this case the objection should be definitive in order to establish the compatibility between assignments to be included in the List and those identified as being affected. As the objection is considered definitive and is taken into account in the Bureau's examination, it is appropriate to publish the modification of the service area and the modified characteristics should also be used in all subsequent examinations.*

*This issue was discussed during WRC-12 (see Document 450) and WRC-12 instructed the Bureau to submit to the Radio Regulations Board a detailed description of the Bureau's practices and actions, especially with respect to applying § 6.16 of Article 6 of Appendix 30B and the Radio Regulations Board to develop the relevant Rules of Procedure (see paragraph 1.1-1.7 of Document 555).*

*The draft Rule is prepared in accordance with the instruction of WRC-12.*

*Effective date of application of the new Rule: immediately after the approval of the Rule.*

**ADD**

**Art. 8**

**Procedure for notification and recording in the Master Register  
of assignments in the Planned bands for the  
fixed-satellite service**



**ADD**

**8.17**

In accordance with the decision of WRC-12 recorded in the minutes of the 12th Plenary Meeting, an administration may request, as of 1 January 2013, for suspension of the use of a frequency assignment to a space station for a period not exceeding three years and §8.17 of Appendix **30B** shall be applied as follows:

- Wherever the use of a frequency assignment to a space station recorded in the Master Register is suspended for a period exceeding six months, the notifying administration shall, as soon as possible, but no later than six months from the date on which the use was suspended, inform the Bureau of the date on which such use was suspended. When the recorded assignment is brought back into use, the notifying administration shall so inform the Bureau, as soon as possible. The date on which the recorded assignment is brought back into use shall be no later than three years from the date of suspension.
- If the recorded frequency assignment is not brought back into use within three years from the date of suspension, the Bureau shall cancel the assignment from the Master Register and apply the provisions of §6.33.
- The date of bringing back into use of a frequency assignment to a space station shall be understood as the same as that described in footnote *20bis* to §5.2.10 of Appendix **30** (Rev.WRC-12) and in footnote *24bis* to §5.2.10 of Appendix **30A** (Rev.WRC-12).

*Reason: WRC-12 introduced new provisions in the Appendices **30** and **30A** for suspension of a frequency assignment to a space station for not more than three years. WRC-12 also approved the extension of the suspension period from two years to three years in regard to Appendix **30B** as well as the approach proposed by the Bureau to implement that extended period via a Rule of procedure (see paragraph 9 of Document 553). In view of the above and considering the same nature of the suspension of a frequency assignment to space stations in Appendix **30B** and Appendices **30/30A**, the draft Rule is prepared in order to align the application of the provision §8.17 of Appendix **30B** with that of §5.2.10 and 5.2.11 in Appendices **30** and **30A** (Rev.WRC-12).*

*Effective date of application of the new Rule: 01.01 2013.*

**Rules concerning**

**APPENDIX 30B to the RR**

**Art. 6**

**Procedure for the conversion of an allotment into assignment,  
for the introduction of an additional system or for  
the modification of an assignment in the List**

**MOD**

**6.3 a)**

**NOC**

1

**NOC**

2

**NOC**

2.1

**NOC**

2.2

**MOD**

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

**NOC**

2.4

**NOC**

2.5

**Rules concerning**

**ARTICLE 21 of the RR**

**MOD**

**21.16**

**Application of power flux-density (PFD) limits to steerable beams**

**NOC**

1

**NOC**

2

**MOD**

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

.....

**NOC**

*Reason: The Radiocommunication Bureau reported to WRC-12 a drawback in application of the Rules of Procedure relating to No. 21.16 to submissions under Appendix 30B and suggested that the Rules of Procedure concerning the pfd limits to steerable beams should not be applied in the examination under Appendix 30B (see paragraph 3.8.3 of Revision 1 to Addendum 2 to Document 4 of WRC-12). WRC-12 agreed with the Bureau's view to no longer apply the RoP on steerable beams in the examinations under Appendix 30B (see Annex of Document 526 and Paragraph 3.38 - 3.40 of Document 554). The draft Rule is prepared in order to incorporate the decision of WRC-12 in the current rules.*

*Effective date of application of the modified Rule: immediately after the approval of the Rule.*

## ANNEX 2

### Rules concerning APPENDIX 30 to the RR

#### An. 1

#### Limits for determining whether a service of an administration is affected by proposed modifications to the Region 2 Plan or by proposed new or modified assignments to the Regions 1 and 3 List

#### MOD

#### 1

#### NOC

a)

#### MOD

b) Implementation of the power flux-density limit referred to in the first paragraph of Section 1 of Annex 1 to Appendix 30

1 The power flux-density limit of  $-103.6 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  which is indicated in the first paragraph of Section 1 of Annex 1 to Appendix 30 was established in order to protect BSS assignments from interference that may be caused by BSS networks located outside an arc of  $\pm 9^\circ$  around a wanted BSS network, under worst-case station-keeping conditions. Therefore, this power flux-density limit was intended to be considered as a hard-limit that shall not be exceeded.

2 In order for the Bureau to practically implement this provision in a reasonable time period, i.e. without having to capture and process the relevant Appendix 4 data, which is currently done several months after the data submission, the Board concluded that the power flux density limit of  $-103.6 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  could be converted into two e.i.r.p. limits as follows:

2.1 "First e.i.r.p. limit":

An e.i.r.p. value of 58.4 dBW, which corresponds to the maximum e.i.r.p. level below which the power flux density limit is never exceeded, i.e. this e.i.r.p. value corresponds to a power flux density value of  $-103.6 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  produced by a satellite pointing at its sub-satellite point (the shortest distance from the GSO to the Earth).

2.2 "Second e.i.r.p. limit":

An e.i.r.p. value of 59.8 dBW, which corresponds to the minimum e.i.r.p. level above which the power flux density limit is always exceeded, i.e. this e.i.r.p. value corresponds to a power flux density value of  $-103.6 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  produced by a satellite pointing at the edge of the visible part of the Earth (the longest distance from the GSO to the Earth).

3 The Board therefore decided that the power flux density limit of  $-103.6 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  shall be implemented by the Bureau by checking the e.i.r.p. value of each assignment of a given network against the e.i.r.p. limits defined in § 2 above.

4 To this aim, the Board instructed the Bureau to apply the following course of action:

4.1 — If the “first e.i.r.p. limit” of 58.4 dBW is not exceeded by any assignment of a given network, the power flux density limit of  $-103.6 \text{ dB}(W/(m^2 \cdot 27 \text{ MHz}))$  would be considered to be met.

4.2 — If the e.i.r.p. value of at least one assignment of a given network exceeds the “second e.i.r.p. limit” of 59.8 dBW, the Bureau shall then consult with the administration responsible for this network in order for it to reduce this e.i.r.p. value at least below 59.8 dBW and preferably below 58.4 dBW. This consultation would have to be carried out according to the Rules of Procedure on the Receivability of Forms of Notice, i.e. within the 30 + 15 days referred to in § 3.2 of these Rules.

Should the responsible administration insist on keeping the original e.i.r.p. value(s) of the assignment(s) in question for this network, the assignment(s) would then be considered as exceeding the power flux density limit referred to in the first paragraph of Section 1 of Annex 1 to Appendix 30 (i.e.  $-103.6 \text{ dB}(W/(m^2 \cdot 27 \text{ MHz}))$ ), and thus not being in conformity with Article 4 of Appendix 30. The assignment(s) would then be deleted from the network and the responsible administration would be informed accordingly.

4.3 — Otherwise, if the e.i.r.p. value of at least one assignment of a given network is in the range between both above mentioned e.i.r.p. limits (i.e. 58.4 dBW and 59.8 dBW), the Bureau should proceed further with this network and study more deeply the conformity with the power flux density limit of  $-103.6 \text{ dB}(W/(m^2 \cdot 27 \text{ MHz}))$  at the time of the other regulatory and technical examinations.

Should it be found at that time that the assignment(s) in question exceed(s) the above mentioned power flux density limit, a Note would be included in the corresponding Special Section drawing the attention of the responsible administration to the need to take necessary action at the stage of Part B publication (application of § 4.1.12 of Appendix 30) to ensure that the e.i.r.p. level of the assignment(s) satisfies the power flux density limit of  $-103.6 \text{ dB}(W/(m^2 \cdot 27 \text{ MHz}))$ , otherwise the assignment(s) shall be considered not to be in conformity with Article 4 of Appendix 30 and shall not be thus included in the List even if all other paragraphs of Article 4 were successfully applied.

5 — The Board noted that considering the level of e.i.r.p. of current BSS satellite networks, this power flux density limit was unlikely to be exceeded and therefore the Bureau might face a limited number of cases of this nature.

NOC

c)

NOC

d)

*Reason: The Bureau has developed software to precisely determine when the  $-103.6 \text{ dB}(W/(m^2 \cdot 27 \text{ MHz}))$  power flux-density limit is exceeded. The software has been made available to administrations since 20 March 2012 (BR IFIC 2715). As the Bureau is now in a position to conduct precise calculation shortly after receipt of submission of the data, the above-mentioned interim measure is no longer necessary and is proposed to be deleted.*

*Effective date of application of the modified Rule: immediately after the approval of the Rule.*

## **Rules concerning**

### **APPENDIX 30A to the RR**

An. 1

**Limits for determining whether a service of an administration is affected by proposed modifications to the Region 2 Plan or by proposed new or modified assignments to the Regions 1 and 3 feeder-link Lists**

NOC

3

MOD

4

NOC

a)

MOD

b) *Implementation of the power flux-density limit referred to in the first paragraph of Section 4 of Annex 1 to Appendix 30A*

1\_ The power flux-density limit of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  which is indicated in the first paragraph of Section 4 of Annex 1 to Appendix 30A was established in order to protect BSS feeder-link assignments from interference which may be caused by BSS feeder-link networks located outside an arc of  $\pm 9^\circ$  around the wanted BSS feeder-link network, under worst-case station-keeping conditions. Therefore, this power flux-density limit was intended to be considered as a hard-limit that shall not be exceeded.

2— In order for the Bureau to practically implement this provision in a reasonable time period, i.e. without having to capture and process the relevant Appendix 4 data which is currently done several months after the data submission, the Board concluded that the power flux-density limit of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  could be converted into two e.i.r.p. limits as follows:

2.1— “First e.i.r.p. limit”:

An e.i.r.p. value of 86 dBW which corresponds to the maximum e.i.r.p. level below which the power flux-density limit is never exceeded, i.e. this e.i.r.p. value corresponds to a power flux-density value of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  produced by a transmitting earth station located at the sub-satellite point (the shortest distance from the Earth to the GSO).

2.2— “Second e.i.r.p. limit”:

An e.i.r.p. value of 87.4 dBW which corresponds to the minimum e.i.r.p. level above which the power flux-density limit is always exceeded, i.e. this e.i.r.p. value corresponds to a power flux-density value of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  produced by a transmitting earth station located at the edge of the visible part of the Earth (the longest distance from the Earth to the GSO).

3— The Board therefore decided that the power flux-density limit of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  shall be implemented by the Bureau by checking the e.i.r.p. value of each assignment of a given network against the e.i.r.p. limits defined in § 2 above, together with the compliance of the relative off-axis e.i.r.p. of the associated feeder-link antenna with Fig. A (WRC-97 curves) of Annex 3 to Appendix 30A.

4— To this aim, the Board further instructed the Bureau to apply the following course of action:

4.1— If the “first e.i.r.p. limit” of 86 dBW is **not exceeded** by any assignment of a given network and if the relative off-axis e.i.r.p. of the associated feeder-link antenna is in compliance with Fig. A

(WRC-97 curves) of Annex 3 to Appendix 30A, the power flux density limit of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  would be considered to be met.

4.2 — If the e.i.r.p. value of at least one assignment of a given network exceeds the “second e.i.r.p. limit” of 87.4 dBW or if the relative off-axis e.i.r.p. of the associated feeder link antenna is not in compliance with Fig. A (WRC-97 curves) of Annex 3 to Appendix 30A, the Bureau shall then consult with the administration responsible for this network in order for it to reduce this e.i.r.p. value at least below 87.4 dBW and preferably below 86 dBW, and/or to ensure that the relative off-axis e.i.r.p. of the associated feeder link antenna is in conformity with Fig. A (WRC-97 curves) of Annex 3 to Appendix 30A. This consultation would have to be carried out according to the Rules of Procedure on the Receivability of Forms of Notice, i.e. within the 30 + 15 days referred to in § 3.2 of these Rules.

Should the responsible administration insist on keeping the original characteristics of the assignment(s) in question for this network, the assignment(s) would then be considered as being not in conformity with the first paragraph of Section 4 of Annex 1 to Appendix 30A, and thus not in conformity with Article 4 of Appendix 30A. The assignment(s) would then be deleted from the network and the responsible administration would be informed accordingly.

4.3 — Otherwise, if the e.i.r.p. value of at least one assignment of a given network is in the range between both above-mentioned e.i.r.p. limits (i.e. 86 dBW and 87.4 dBW) and if the relative off-axis e.i.r.p. of the associated feeder link antenna is in conformity with Fig. A (WRC-97 curves) of Annex 3 to Appendix 30A, the Bureau should proceed further with this network and study more deeply the conformity with the power flux density limit of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$  at the time of the other regulatory and technical examinations.

Should it be found at that time that the assignment(s) in question exceeds the above-mentioned power flux density limit, a Note would be included in the corresponding Special Section drawing the attention of the responsible administration to the need to take necessary action at the stage of Part B publication (application of § 4.1.12 of Appendix 30A) to ensure that the e.i.r.p. level of the assignment(s) satisfies the power flux density limit of  $-76 \text{ dB(W/(m}^2 \cdot 27 \text{ MHz))}$ , otherwise the assignment(s) shall be considered not to be in conformity with Article 4 of Appendix 30A and shall not be thus included in the List even if all other paragraphs of Article 4 were successfully applied.

5 — The Board noted that considering the level of feeder link e.i.r.p. of current BSS satellite networks, this power flux density limit was unlikely to be exceeded and therefore the Bureau might face a limited number of cases of this nature.

NOC

c)

NOC

d)

*Reason: The Bureau has developed software to precisely determine when the  $-76 \text{ dB (W/(m}^2 \cdot 27 \text{ MHz))}$  power flux-density limit is exceeded. The software has been made available to administrations since 20 March 2012 (BR IFIC 2715). As the Bureau is now in a position to conduct precise calculation shortly after receipt of submission of the data, the above-mentioned interim measure is no longer necessary and is proposed to be deleted.*

*Effective date of application of the modified Rule: immediately after the approval of the Rule.*

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