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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | |  |
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|  | | **Doc. CPG(23)060 ANNEX V-21** | |
| PLENARY MEETING | | **Addendum 2 to Addendum 21 to Document XXXX-E** | |
|  | | **30 August 2023** | |
|  | | **Original: English** | |
|  | | | |
| European Common Proposals | | | |
| Proposals for the work of the conference | | | |
|  | | | |
| Agenda item 4 | | | |

4 in accordance with Resolution **95 (Rev.WRC‑19)**, to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

Part 2: Review of Resolutions and Recommendations of previous Conferences

Introduction

The review of Resolutions and Recommendations of previous Conferences is a standing agenda item. Based on membership proposals WRC-23 shall conclude on whether there is a need for any modification or suppression of Resolutions or Recommendations from previous Conferences. CEPT reviewed Resolutions and Recommendations of previous conferences and concluded to make proposals for modification, suppression or reasoned decision to abstain from changes as follows.

Proposals

ARTICLE 48

Personnel

Section II − Class and minimum number of personnel for ship stations  
and ship earth stations

MOD EUR/XXXXA21A2/1

48.7 § 5 The personnel of ship stations and ship earth stations for which a radio installation is not compulsory either under international agreements or national regulations and which use the frequencies and techniques prescribed in Chapter **VII** shall be adequately qualified and certificated in accordance with the administration’s requirements. Guidance concerning appropriate qualifications and certification is provided in Resolution **343 (Rev.WRC‑12)**. That Resolution describes two appropriate certificates for use by personnel of ship stations and ship earth stations for which a radio installation is not compulsory.

**Reasons:** Editorial change of reference to the up-to-date version of Resolution 343, after which the Note by the Secretariat becomes obsolete.

MOD EUR/XXXXA21A2/2

RESOLUTION 49[[1]](#footnote-2)1 (Rev.WRC‑23)

Administrative due diligence applicable to some   
satellite radiocommunication services

The World Radiocommunication Conference (Dubai, 2023),

*…*

resolves

that the administrative due diligence procedure contained in Annex 1 to this Resolution shall be applied for a satellite network or satellite system of the fixed-satellite service, mobile-satellite service or broadcasting-satellite service for which the advance publication information under Nos. **9.1A** or **9.2B**, or for which the request for modifications of the Region 2 Plan under Article 4, § 4.2.1 *b)* of Appendices **30** and **30A** that involve the addition of new frequencies or orbital positions, or for which the request for modifications of the Region 2 Plan under Article 4, § 4.2.1 *a)* of Appendices **30** and **30A** that extend the service area to another country or countries in addition to the existing service area, or for which the request for additional uses in Regions 1 and 3 under § 4.1 of Article 4 of Appendices **30** and **30A**, or for which the submission under Appendix **30B** is received, with the exception of submissions of new Member States seeking the acquisition of their respective national allotments[[2]](#footnote-3)2 for inclusion in the Appendix **30B** Plan,

*…*

ANNEX 1 TO RESOLUTION 49 (Rev.WRC‑23)

1 Any satellite network or satellite system of the fixed-satellite service, mobile-satellite service or broadcasting-satellite service with frequency assignments that are subject to coordination under Nos. **9.7**, **9.11**, **9.12**, **9.12A** and **9.13** shall be subject to these procedures.

2 Any request for modifications of the Region 2 Plan under the relevant provisions of Article 4 of Appendices **30** and **30A** that involve the addition of new frequencies or orbital positions or for modifications of the Region 2 Plan under the relevant provisions of Article 4 of Appendices **30** and **30A** that extend the service area to another country or countries in addition to the existing service area or request for additional uses in Regions 1 and 3 under the relevant provisions of Article 4 of Appendices **30** and **30A** shall be subject to these procedures.

3 Any submission of information under Article 6 of Appendix **30B**, with the exception of submissions of new Member States seeking the acquisition of their respective national allotments[[3]](#footnote-4)3 for inclusion in the Appendix **30B** Plan, shall be subject to these procedures.

4 For any satellite network subject to § 1 above, administrations shall send to the Radiocommunication Bureau (BR) no later than 30 days following the end of the period established as a limit to bringing into use in No. **11.44**, the due diligence information relating to the identity of the satellite network, the spacecraft manufacturer and the launch service provider specified in Annex 2 to this Resolution.

5 An administration requesting a modification of the Region 2 Plan or additional uses in Regions 1 and 3 under Appendices **30** and **30A** under § 2 above shall send to BR no later than 30 days following the end of the period established as a limit to bringing into use in accordance with the relevant provisions of Article 4 of Appendix **30** and the relevant provisions of Article 4 of Appendix **30A**, the due diligence information relating to the identity of the satellite network, the spacecraft manufacturer and the launch service provider specified in Annex 2 to this Resolution.

6 An administration applying Article 6 of Appendix **30B** under § 3 above shall send to BR no later than 30 days following the end of the period established as a limit to bringing into use in § 6.1 of that Article, the due diligence information relating to the identity of the satellite network, the spacecraft manufacturer and the launch service provider specified in Annex 2 to this Resolution.

7 The information to be submitted in accordance with § 4, 5 or 6 above shall be signed by an authorized official of the notifying administration or of an administration that is acting on behalf of a group of named administrations.

8 On receipt of the due diligence information under § 4, 5 or 6 above, BR shall promptly examine that information for completeness. If the information is found to be complete, BR shall publish the complete information in a special section of the International Frequency Information Circular (BR IFIC) within 30 days.

9 If the information is found to be incomplete, BR shall immediately request the administration to submit the missing information. In all cases, the complete due diligence information shall be received by BR within the appropriate time period specified in § 4, 5 or 6 above.

10 Six months before expiry of the period specified in § 4, 5 or 6 above and if the administration responsible for the satellite network has not submitted the due diligence information under § 4, 5 or 6 above, BR shall send a reminder to the responsible administration.

11 If the complete due diligence information is not received by BR within the time limits specified in § 4, 5 or 6, as appropriate, the networks covered by § 1, 2 or 3 above shall be cancelled by BR. The provisional recording in the MIFR shall be deleted by BR after it has informed the concerned administration. BR shall publish this information in the BR IFIC.

With respect to the request for modification of the Region 2 Plan or for additional uses in Regions 1 and 3 under Appendices **30** and **30A** under § 2 above, the modification shall lapse if the complete due diligence information is not submitted in accordance with § 5.

With respect to the request for application of Article 6 of Appendix **30B** under § 3 above, the network shall also be deleted from the Appendix **30B** List if the complete due diligence information is not submitted in accordance with § 6. When an allotment under Appendix **30B** is converted into an assignment, the assignment shall be reinstated in the Plan in accordance with § 6.33 *c)* of Article 6 of Appendix **30B**.

12 When an administration has completely fulfilled the due diligence procedure but has not completed coordination, this does not preclude the application of No. **11.41** by that administration.

ANNEX 2 TO RESOLUTION 49 (Rev.WRC‑23)

**A Identity of the satellite network**

*a)* Identity of the satellite network

*b)* Name of the administration

*c)* Country symbol

*d)* Reference to the advance publication information or to the request for modification of the Region 2 Plan or for additional uses in Regions 1 and 3 under Appendices **30** and **30A**; or reference to the information processed under Article 6 of Appendix **30B**

*e)* Reference to the request for coordination (not applicable for Appendices **30**, **30A** and **30B**)

*f)* Frequency band(s)

*g)* Name of the operator

*h)* Name of the satellite

*i)* Orbital characteristics.

**B Spacecraft manufacturer[[4]](#footnote-5)\***

*a)* Name of the spacecraft manufacturer

*b)* Date of execution of the contract

*c)* Contractual “delivery window”

*d)* Number of satellites procured.

**C Launch services provider**

*a)* Name of the launch vehicle provider

*b)* Date of execution of the contract

*c)* Launch or in-orbit delivery window

*d)* Name of the launch vehicle

*e)* Name and location of the launch facility.

**Reasons:** Language correction introducing the correct form of the adjective in English: “orbital”. Furthermore, “**(Rev.WRC-19)**”removed from references to Appendix **30B** for consistency.

SUP EUR/XXXXA21A2/3

RESOLUTION 75 (REV.WRC‑12)

Development of the technical basis for determining the coordination area   
for coordination of a receiving earth station in the space research service   
(deep space) with transmitting stations of high-density applications   
in the fixed service in the 31.8-32.3 GHz and 37-38 GHz bands

**Reasons:** Technical elements requested by this Resolution have been developed by ITU-R (Recommendations ITU-R F.1760, F.1765), and no recent activity has been performed since then. Therefore, this Resolution could be considered as implemented.

MOD EUR/XXXXA21A2/4

RESOLUTION 85 (REV.WRC‑23)

Application of Article 22 of the Radio Regulations to the protection of geostationary fixed-satellite service and broadcasting-satellite service networks from non-geostationary fixed-satellite service systems

The World Radiocommunication Conference (Dubai, 2023),

considering

*a)* that WRC-2000 adopted, in Article **22**, single-entry limits applicable to non‑geostationary (non-GSO) fixed-satellite service (FSS) systems in certain parts of the frequency range 10.7-30 GHz to protect geostationary-satellite (GSO) networks operating in the same frequency bands;

*b)* that, taking into account Nos. **22.5H** and **22.5I**, wherever the limits referred to in *considering a)* are exceeded by a non-GSO FSS system to which the limits apply without the agreement of the concerned administrations, this constitutes a violation of the obligations under No. **22.2**;

*c)* that ITU‑R has developed Recommendation ITU‑R S.1503 to provide a functional description to be used in developing software tools for determining the conformity of non‑GSO FSS networks with limits contained in Article **22**, and revisions to this Recommendation are ongoing;

*d)* that there was no software tool available to the Radiocommunication Bureau for epfd examinations until the publication of the Circular Letter CR/414 on 6 December 2016 informing administrations that the final version of the software for implementing Recommendation ITU-R S.1503-2 is available;

*e)* that the software may not adequately model certain non-GSO FSS systems and further improvements to Recommendation ITU-R S.1503 may be necessary;

*f)* that, when no epfd validation software was available, the Bureau has requested commitments from the notifying administrations that they will meet the epfd limits in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3**, and that under these commitments the Bureau gave qualified favourable findings to their systems;

*g)* that the Bureau was not in a position to perform its duties in relation to Nos. **9.7A** and **9.7B** due to the lack of epfd validation software;

*h)* that during the examination under Nos. **9.35** and **11.31**, the Bureau examines non‑GSO FSS systems to ensure their compliance with the single-entry epfd limits given in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3**,

resolves

1 that when the Bureau is unable to examine non-GSO FSS systems subject to Nos. **22.5C**, **22.5D** and **22.5F** under Nos. **9.35** and/or **11.31**, the notifying administration shall send to the Bureau a commitment that the non-GSO FSS system complies with the limits given in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3** in addition to the information submitted under Nos. **9.30** and **11.15,** as well as detailed technical description including the results of epfd calculation using existing epfd validation software and the results of epfd calculation using simulation software with adequate modelling of the non-geostationary satellite FSS system;

1bis that the Bureau shall promptly make available on the ITU website the information referred to in *resolves* 1 (results of epfd calculation using existing epfd validation software, results of epfd calculation using simulation software with adequate modelling of the non-geostationary satellite FSS system and identification of particular areas of the latest version of Recommendation ITU-R S.1503 that fail to adequately model the non-geostationary system shall be provided) it has received from the administration of the non-geostationary satellite system and publish it in the BR IFIC;

2 that the Bureau shall issue either a qualified favourable finding under No. **9.35** or a favourable finding with a date of review under No. **11.31** with respect to the limits contained in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3**, if *resolves*1 is satisfied, otherwise the non-GSO FSS system will receive a definitive unfavourable finding;

3 that if an administration believes that a non-GSO FSS system, for which the commitment referred to in *resolves*1 was sent, has the potential to exceed the limits given in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3**, it may request from the notifying administration additional information with regard to the compliance with the limits mentioned above. Both administrations shall cooperate to resolve any difficulties, with the assistance of the Bureau, if so requested by either of the parties, and may exchange any additional relevant information that may be available;

4 that the Bureau shall determine coordination requirements between GSO FSS earth stations and non-GSO FSS systems under Nos. **9.7A** and **9.7B** based on bandwidth overlap, and GSO FSS earth station antenna maximum isotropic gain, *G*/*T* and emission bandwidth;

5 that *resolves* 1 to 4 shall no longer be applied since, as per *considering d),* the Bureau has communicated to all administrations via a Circular Letter that the epfd validation software is available and the Bureau is able to verify compliance with the limits in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3** and to determine the coordination requirements under Nos. **9.7A** and **9.7B;**

6 that notwithstanding *resolves* 5, *resolves* 1 to 4 shall continue to apply to non-GSO systems that cannot be adequately modelled by the version of the software available until a new version of the software which adequately modelled the non-GSO system is made available,

further resolves

that those provisions of the Radio Regulations that have been amended by WRC-03 and that are referred to in *resolves*5 shall provisionally apply as from 5 July 2003,

invites the ITU-R

1 to amend, as a matter of urgency, and taking into account the information referred to in *resolves* 1, as appropriate, the algorithm of Recommendation ITU-R S.1503 to ensure that the epfd validation software available to the BR for epfd examinations can adequately model non-geostationary satellite FSS systems while maintaining the existing level of protection for GSO satellite networks;

2 to continue to review, as a matter of urgency, the procedures defined in this Resolution to ensure that an indefinite application of a qualified favourable finding for a given non-GSO FSS system is avoided,

instructs the Director of the Radiocommunication Bureau

1 to encourage administrations to develop the epfd validation software;

2 to review, once the epfd validation software or a version adequately modelling the non-GSO systems referred to in *resolves* 6 is available, its findings made in accordance with Nos. **9.35** and**11.31**;

3 to review, once the epfd validation software or a version adequately modelling the non-GSO systems referred to in *resolves* 6 is available, the coordination requirements under Nos. **9.7A** and **9.7B**.

**Reasons:** CEPT reviewed Resolution **85 (WRC-03)** and concluded to propose the above modification.

MOD EUR/XXXXA21A2/5

RESOLUTION 140 (REV.WRC-23)

Measures and studies associated with the equivalent power flux-density (epfd) limits in the frequency band 19.7-20.2 GHz

The World Radiocommunication Conference (Dubai, 2023),

considering

*a)* that, after several years of study, WRC‑2000 adopted epfd limits in a number of frequency bands to give practical effect to No. **22.2**, in order to facilitate non-geostationary-orbit (non‑GSO) systems in the fixed-satellite service (FSS) to operate while still ensuring protection of GSO FSS networks from unacceptable interference;

*b)* that in Resolution **76 (Rev.WRC‑15)**, WRC‑2000 also adopted aggregate epfd↓ limits in the same frequency bands for the protection of GSO FSS systems;

*c)* that a small number of systems based on constellations of satellites in highly elliptical orbits (HEOs), in certain FSS bands, have been operating for many years;

…

**Reasons:** Resolution **76 (Rev.WRC-15)** is the up-to-date version. With the proposed edit adopted, note by the Secretariat becomes obsolete.

SUP EUR/XXXXA21A2/6

RESOLUTION 160 (WRC‑15)

Facilitating access to broadband applications delivered   
by high-altitude platform stations

**Reasons:** This Resolution should have been deleted at WRC-19 since it was related to WRC-19 agenda item 1.14.

SUP EUR/XXXXA21A2/7

RESOLUTION 161 (WRC‑15)

Studies relating to spectrum needs and possible allocation of the   
frequency band 37.5-39.5 GHz to the fixed-satellite service

**Reasons:** This Resolution should have been deleted at WRC-19 since it was related to WRC-23 preliminary agenda item 2.4 and not kept in the finalised WRC-23 Agenda.

MOD EUR/XXXXA21A2/8

RESOLUTION 163 (REV.WRC-23)

Deployment of earth stations in some Regions 1 and 2 countries in the frequency band 14.5-14.75 GHz in the fixed-satellite service (Earth-to-space)   
not for feeder links for the broadcasting-satellite service

The World Radiocommunication Conference (Dubai, 2023),

…

resolves

that earth stations in Regions 1 and 2 in the frequency band 14.5-14.75 GHz in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall be operated only in the following countries: Algeria, Saudi Arabia, Argentina, Armenia, Azerbaijan, Bahrain, Belarus, Brazil, Bulgaria, Cuba, Egypt, El Salvador, the Russian Federation, Iraq, Jordan, Kazakhstan, Kuwait, Mauritania, Mexico, Morocco, Nicaragua, Norway, Oman, Uzbekistan, Qatar, Kyrgyzstan, Sudan, Türkiye, Uruguay and Venezuela; such operation is subject to the technical and operational limitations contained in Nos. 5.509B, 5.509C, 5.509D, 5.509E and 5.509F.

**Reasons:** Following an official letter submitted by the Republic of Türkiye, the country's name has been officially changed to Türkiye at the United Nations. “Türkiye” shall be used instead of “Turkey” for all affairs. The change became effective from 1 July 2022.

MOD EUR/XXXXA21A2/9

RESOLUTION 608 (REV.WRC‑23)

Use of the frequency band 1 215-1 300 MHz by systems of the   
radionavigation-satellite service (space-to-Earth)

The World Radiocommunication Conference (Dubai, 2023),

…

recognizing

*a)* that the ITU Radiocommunication Bureau (ITU‑R) carried out studies related to the protection of the radiodetermination systems operating in the frequency band 1 215-1 300 MHz and that these studies should continue pursuant to relevant ITU‑R Questions, such as Questions ITU‑R 62/5 and ITU‑R 217/4, so as to prepare, as appropriate, ITU‑R Recommendations;

*b)* that, up to the end of WRC‑2000, use of the RNSS in the frequency band 1 215‑1 260 MHz was subject only to the constraint that no harmful interference was caused to the radionavigation service in Algeria, Germany, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Burundi, Cameroon, China, Croatia, Denmark, United Arab Emirates, France, Greece, India, Iran (Islamic Republic of), Iraq, Kenya, Liechtenstein, Luxembourg, North Macedonia, Mali, Mauritania, Norway, Oman, Pakistan, Netherlands, Portugal, Qatar, Serbia and Montenegro[[5]](#footnote-7)\*, Senegal, Slovenia, Somalia, Sudan[[6]](#footnote-8)\*\*, Sri Lanka, Sweden, Switzerland and Türkiye, and, furthermore, that No. **5.43** was applied,

…

**Reasons:** Following an official letter submitted by the Republic of Türkiye, the country's name has been officially changed to Türkiye at the United Nations. “Türkiye” shall be used instead of “Turkey” for all affairs. The change became effective from 1 July 2022.

MOD EUR/XXXXA21A2/10

RESOLUTION 731 (REV.WRC‑23)

Consideration of sharing and adjacent-band compatibility   
between passive and active services above 71 GHz

The World Radiocommunication Conference (Dubai, 2023),

*…*

recognizing

*a)* that several frequency bands above 71 GHz are subject to No. **5.340**, and all emissions are prohibited in these bands;

*b)* that, to the extent practicable, the burden of sharing among active and passive services should be equitably distributed among the services to which allocations are made,

resolves

to invite a future competent world radiocommunication conference to consider the results of ITU-R studies referred to in *invites the ITU Radiocommunication Sector* below with a view to taking the necessary action, as appropriate, in order to accommodate the emerging requirements of active services, taking into account the requirements of the passive services, in frequency bands above 71 GHz,

urges administrations

to note the possibility of changes to Article **5** to accommodate emerging requirements for active services, as indicated in this Resolution, and to take this into account in the development of national policies and regulations,

invites the ITU Radiocommunication Sector

1 to continue its studies to determine if and under what conditions sharing is possible between active and passive services in the frequency bands above 71 GHz, such as, but not limited to, 116‑122.25 GHz, 174.8‑182 GHz, 185-190 GHz, and 235‑238 GHz, taking into account *recognizing* *a)*;

2 to continue its studies to determine if and under what conditions, adjacent band compatibility is possible between active and passive services in the frequency bands above 71 GHz;

3 to conduct studies to determine the specific conditions to be applied to the land-mobile and fixed-service applications to ensure the protection of EESS (passive) applications in the frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz;

4 to study means of avoiding adjacent-band interference from space services (downlinks) into radio astronomy frequency bands above 71 GHz;

5 to take into account the principles of burden-sharing to the extent practicable in their studies;

6 to complete the necessary studies when the technical characteristics of the active services in these frequency bands are known;

7 to develop Recommendations specifying sharing criteria for those frequency bands where sharing is feasible,

…

**Reasons:** This revision is required to clarify that several frequency bands above 71 GHz are subject to No. **5.340** which designates frequency bands where all emissions are prohibited and to make consequential revisions to the *invites* part.

MOD EUR/XXXXA21A2/11

RESOLUTION 762 (REV.WRC‑23)

Application of power flux-density criteria to assess the potential for harmful interference under No. 11.32A for fixed-satellite and broadcasting-satellite service networks in the 6 GHz and 10/11/12/14 GHz   
frequency bands not subject to a Plan

The World Radiocommunication Conference (Dubai, 2023),

*…*

resolves

*…*

4 that as of 1 January 2017 the Bureau and administrations shall apply this Resolution.

**Reasons:** The clause has been completed at WRC-19.

MOD EUR/XXXXA21A2/12

RECOMMENDATION 34 (REV.WRC‑23)

Principles for the allocation of frequency bands

The World Radiocommunication Conference (Dubai, 2023),

*…*

recognizing

that Resolution **26 (Rev.WRC‑19)** provides guidelines for the use of footnotes, including additions, modifications or deletions,

recommends that future world radiocommunication conferences

1 should, wherever possible, allocate frequency bands to the most broadly defined services with a view to providing the maximum flexibility to administrations in spectrum use, taking into account safety, technical, operational, economic and other relevant factors;

2 should, wherever possible, allocate frequency bands on a worldwide basis (aligned services, categories of service and frequency band limits) taking into account safety, technical, operational, economic and other relevant factors;

3 should, wherever possible, keep the number of footnotes in Article **5** to a minimum when allocating frequency bands through footnotes, in line with Resolution **26 (Rev.WRC‑19)**;

4 should take into account relevant studies by the Radiocommunication Sector and report(s) of the relevant Conference Preparatory Meeting(s) (CPM), as appropriate, considering also contributions by members, including technical and operational developments, forecasts and usages as per the agenda of the WRC,

…

**Reasons:** Resolution **26** was revised by WRC-19.

1. 1 This Resolution does not apply to satellite networks or satellite systems of the broadcasting-satellite service in the frequency band 21.4-22 GHz in Regions 1 and 3. [↑](#footnote-ref-2)
2. 2 See § 2.3 of Appendix **30B (Rev.WRC‑19)**. [↑](#footnote-ref-3)
3. 3 See § 2.3 of Appendix **30B**. [↑](#footnote-ref-4)
4. \* NOTE − In cases where a contract for satellite procurement covers more than one satellite, the relevant information shall be submitted for each satellite. [↑](#footnote-ref-5)
5. \* *Note by the Secretariat:* Serbia and Montenegro became independent States in 2006. [↑](#footnote-ref-7)
6. \*\* *Note by the Secretariat:* Sudan was partitioned into two independent States in 2011 (Sudan and South Sudan). [↑](#footnote-ref-8)