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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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| Source Document: APG23-6/OUT-31 | | **Addendum 19 to Document xx-E** | |
|  | | **19 August 2023** | |
|  | | **Original: English** | |
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| Asia-Pacific Telecommunity Common Proposals | | | |
| Proposals for the work of the conference | | | |
|  | | | |
| Agenda item 1.19 | | | |

1.19to consider a new primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2, while protecting existing primary services in the band, in accordance with Resolution **174 (WRC‑19)**;

1. **Introduction**

APT Members have considered agenda item 1.19 and drafted a Preliminary APT Common Proposal on the matter. In addition, APT Members have agreed on the following view(s) on the agenda item 1.19:

* APT Members are of the view that protection to the existing services in Region 3 in the 17.3-17.7 GHz and adjacent bands, including BSS feeder link AP30A receiving space station, shall be ensured.
* APT Members are of the view to support the proposed New Method, modification of Method B Alternative 2, as described in the PACP document.
* It is acknowledged that there is potential interference path from Region 2 FSS downlink into an Appendix 30A BSS feeder link receiver.

1. **Proposal**

CHAPTER II

Frequencies

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD ACP/xxA19/1

15.4-18.4 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 15.4-15.43 RADIOLOCATION 5.511E 5.511F  AERONAUTICAL RADIONAVIGATION | | |
| 15.43-15.63 FIXED-SATELLITE (Earth-to-space) 5.511A  RADIOLOCATION 5.511E 5.511F  AERONAUTICAL RADIONAVIGATION  5.511C | | |
| 15.63-15.7 RADIOLOCATION 5.511E 5.511F  AERONAUTICAL RADIONAVIGATION | | |
| 15.7-16.6 RADIOLOCATION  5.512 5.513 | | |
| 16.6-17.1 RADIOLOCATION  Space research (deep space) (Earth-to-space)  5.512 5.513 | | |
| 17.1-17.2 RADIOLOCATION  5.512 5.513 | | |
| 17.2-17.3 EARTH EXPLORATION-SATELLITE (active)  RADIOLOCATION  SPACE RESEARCH (active)  5.512 5.513 5.513A | | |
| 17.3-17.7  FIXED-SATELLITE (Earth-to-space) 5.516 (space-to-Earth) 5.516A 5.516B  Radiolocation | 17.3-17.7  FIXED-SATELLITE (Earth-to-space) 5.516  (space-to-Earth) ADD 5.XXX MOD 5.516A MOD 5.517  BROADCASTING-SATELLITE  Radiolocation | 17.3-17.7  FIXED-SATELLITE (Earth-to-space) 5.516  Radiolocation |
| 5.514 | 5.514 5.515 | 5.514 |
| 17.7-18.1  FIXED  FIXED-SATELLITE (space-to-Earth) 5.484A 5.517A (Earth-to-space) 5.516  MOBILE | 17.7-17.8  FIXED  FIXED-SATELLITE (space-to-Earth) 5.517 5.517A (Earth-to-space) 5.516  BROADCASTING-SATELLITE  Mobile  5.515 | 17.7-18.1  FIXED  FIXED-SATELLITE (space-to-Earth) 5.484A 5.517A (Earth-to-space) 5.516  MOBILE |
|  | 17.8-18.1  FIXED  FIXED-SATELLITE (space-to-Earth) 5.484A 5.517A (Earth-to-space) 5.516  MOBILE  5.519 |  |
| 18.1-18.4 FIXED  FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B 5.517A  (Earth-to-space) 5.520  MOBILE  5.519 5.521 | | |

ADD ACP/xxA19/2

5.XXX The use of the band 17.3-17.7 GHz in Region 2 by systems in the fixed-satellite service (space-to-Earth) is limited to geostationary satellites.     (WRC‑23)

MOD ACP/xxA19/3

5.516A In the band 17.3-17.7 GHz, earth stations of the fixed-satellite service (space-to-Earth) in Regions 1 and 2 shall not claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix 30A, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder-link earth stations anywhere within the service area of the feeder link. In Region 2, the use of the fixed-satellite service in the band 17.3-17.7 GHz shall not cause unacceptable interference to the space station receivers of the broadcasting-satellite service feeder link in Regions 1 and 3 operating and those to be operated in the future under Appendix **30A**; upon receipt of a report of unacceptable interference, the notifying administration of the fixed-satellite service shall immediately eliminate or reduce interference to an acceptable level. In order to implement the commitment with regard to fixed-satellite service allocation in Region 2, the notifying administration of the fixed-satellite service at the time of notification under Article **11** of the Radio Regulations, submitting Appendix **4** information to the BR shall also submit a firm measurable, objective and enforceable commitment that in the case of unacceptable interference undertake to immediately cease emission or reduce the interference to an acceptable level and that the fixed-satellite service system is capable to make this commitment immediately.      (WRC‑23)

MOD ACP/xxA19/4

5.517 In Region 2, use of the fixed-satellite (space-to-Earth) service in the band 17.3-17.8 GHz shall not cause harmful interference to nor claim protection from assignments in the broadcasting-satellite service operating in conformity with the Radio Regulations.     (WRC‑23)

MOD ACP/xxA19/5

APPENDIX 5 (REV.WRC‑23)

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

MOD ACP/xxA19/6

TABLE 5-1     (Rev.WRC‑23)

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 (*cont.*) |  | 2*bis*) 13.4-13.65 GHz (Region 1) | i) Bandwidth overlap, and  ii) any network in the space research service (SRS) or any network in the FSS and any associated space operation functions (see No. **1.23**) with a space station within an orbital arc of ±6° of the nominal orbital position of a proposed network in the FSS or SRS |  |  |
|  | 3) 17.7‑19.7 GHz, (Region 3),  17.3-19.7 GHz  (Regions 1 and 2) and 27.5‑29.5 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 ±8° of the nominal orbital position of a proposed network in the FSS |  |  |
|  | 3*bis*)19.7-20.2 GHz and 29.5-30 GHz | i) Bandwidth overlap, and  ii) any network in the FSS or in the mobile-satellite service (MSS) and any associated space operation functions (see No. **1.23**) with a space station within an orbital arc of ±8° of the nominal orbital position of a proposed network in the FSS or in the MSS. |  |  |
|  |  |  |  |  |

…

APPENDIX 30A (REV.WRC‑19)\*

Provisions and associated Plans and List1 for feeder links for the broadcasting-satellite service (11.7-12.5 GHz in Region 1, 12.2-12.7 GHz  
in Region 2 and 11.7-12.2 GHz in Region 3) in the frequency bands  
14.5-14.8 GHz2 and 17.3-18.1 GHz in Regions 1 and 3,  
and 17.3-17.8 GHz in Region 2     (WRC‑03)

MOD ACP/xxA19/7

ARTICLE 7     (Rev.WRC‑23)

Coordination, notification and recording in the Master International   
Frequency Register of frequency assignments to stations in the fixed-satellite service (space-to-Earth) in Regions 1 and 2 in the frequency band 17.3-18.1 GHz and in Region 3 in the frequency band 17.7-18.1 GHz, to stations in the fixed‑satellite service (Earth-to-space) in Region 2 in the frequency bands 14.5‑14.8 GHz and 17.8‑18.1 GHz, to stations in the fixed-satellite service (Earth-to-space) in countries listed in Resolution 163 (WRC‑15) in the frequency band 14.5‑14.75 GHz and in countries listed in Resolution 164 (WRC‑15) in the frequency band 14.5-14.8 GHz where those stations are not for feeder links for the broadcasting-satellite service, and to stations in the broadcasting-satellite service in Region 2 in the frequency band 17.3-17.8 GHz when frequency assignments to feeder links for broadcasting-satellite stations in the frequency bands 14.5-14.8 GHz and 17.3-18.1 GHz in Regions 1 and 3 or in the   
frequency band 17.3-17.8 GHz in Region 2 are involved28     (Rev.WRC‑23)

Section I – Coordination of transmitting space or earth stations in the fixed-satellite   
service or transmitting space stations in the broadcasting-satellite service  
with assignments to broadcasting-satellite service feeder links

MOD ACP/xxA19/8

7.1 The provisions of No. 9.7[[1]](#footnote-1)29 and the associated provisions under Articles 9 and 11 are applicable to transmitting space stations in the fixed-satellite service in Regions 1 and 2 in the frequency band 17.3-18.1 GHz, to transmitting space stations in the fixed-satellite service in Region 3 in the frequency band 17.7-18.1 GHz, to transmitting earth stations in the fixed-satellite service in Region 2 in the frequency bands 14.5-14.8 GHz and 17.8‑18.1 GHz, to transmitting earth stations in the fixed-satellite service in countries listed in Resolution **163 (WRC‑15)** in the frequency band 14.5-14.75 GHz and in countries listed in Resolution **164 (WRC‑15)** in the frequency band 14.5-14.8 GHz where those stations are not for feeder links for the broadcasting-satellite service, and to transmitting space stations in the broadcasting-satellite service in Region 2 in the frequency band 17.3-17.8 GHz.     (WRC‑23)

ADD ACP/xxA19/9

7.2.3 For the fixed-satellite service (space-to-Earth) in the bands 17.3-17.7 GHz (in Region 2), the course of action described in Nos. **9.60** to **9.62** and the provision No. **11.41** do not apply with respect to feeder links of an assignment in the Plan, List or proposed new or modified assignments in the List or an assignment intended to enter in the Regions 1 and 3 Plan.     (WRC‑23)

SUP ACP/xxA19/10

RESOLUTION 174 (WRC‑19)

Primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2

1. 29 (SUP – WRC-19) [↑](#footnote-ref-1)