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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | | Logo, company name  Description automatically generated |
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| PLENARY MEETING | | **Doc. CPG(23)036 ANNEX V 22D1 Addendum 4 to Document XXXX(Add.22)-E** | |
|  | | **26 April 2023** | |
|  | | **Original: English** | |
|  | | | |
| European Common Proposals | | | |
| Proposals for the work of the conference | | | |
|  | | | |
| Agenda item 7(D1) | | | |

7 to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution **86** **(Rev.WRC‑07)**, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;

7(D1) Topic D1 - Modifications to Appendix 1 to Annex 4 of RR Appendix **30B**

Introduction

Appendix 1 to Annex 4 of Appendix **30B** of the Radio Regulations determines the overall single-entry and aggregate carrier-to-interference (C/I) value averaged over the necessary bandwidth of the modulated carrier.

WRC-19 adopted modifications to sections 1.1 and 1.2 of Annex 4 of RR Appendix **30B** by replacing 10 and 9 degrees as the minimum orbital separation by 7 and 6 degrees, respectively. However, these modifications were not reflected in section 2 of Appendix 1 to Annex 4 of RR Appendix **30B**. Instead, section 2 still refer to the values of 10 and 9 degrees for the calculation of the aggregate C/I ratio at any given downlink test point.

This discrepancy in RR Appendix **30B** has been identified in Annex 5 to Circular Letter CCRR/66 and a rule of procedure has been adopted to align the values of the minimum orbital separation with those adopted by WRC-19, until WRC-23 can incorporate this modification into the Radio Regulations.

Proposals

APPENDIX 30B (REV.WRC‑19)

Provisions and associated Plan for the fixed-satellite service  
in the frequency bands 4 500-4 800 MHz, 6 725-7 025 MHz,  
10.70-10.95 GHz, 11.20-11.45 GHz and 12.75-13.25 GHz

ANNEX 4     (REV.WRC‑19)

Criteria for determining whether an allotment or  
an assignment is considered to be affected[[1]](#footnote-1)15*bis*

MOD EUR/XXXXA22A4/1

APPENDIX 1 TO ANNEX 4     (Rev.WRC‑23)

Method for determination of the overall single-entry and aggregate  
carrier-to-interference value averaged over the necessary  
bandwidth of the modulated carrier

NOC EUR/XXXXA22A4/2

# 1 Single-entry *C*/*I*

MOD EUR/XXXXA22A4/3

# 2 Aggregate *C*/*I*

The aggregate (*C*/*I*)*agg* at a given downlink test point is given by:

          dB

*j* = 1, 2, 3 . . . *n*,

where:

(*C*/*I*)*tj*: overall carrier-to-interference ratio due to interference from the *j*-th allotment or assignment calculated using the method for overall single-entry (*C*/*I*)*t* as provided in § 1 of Appendix **1** to this Annex; and

*n*: total number of interfering allotments or assignments for which the orbital separation with the desired satellite is less than or equal to 7° in the case of the 6/4 GHz band and less than or equal to 6° in the case of the 13/10-11 GHz band.

1. 15*bis* For frequency assignments recorded in the List and brought into use before 23 November 2019, the criteria of § 2.2 of this Annex are not applicable.     (WRC-19) [↑](#footnote-ref-1)