



---

**PLENARY MEETING**

**Addendum 4 to  
Document 6224(Add.22)-  
E  
9 October 2023  
Original: English**

## **African 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**

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<sup>15bis</sup>**

**MOD AFCP/6224A22A4/1**

APPENDIX 1 TO ANNEX 4 (REV.WRC-0723)

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

**NOC AFCP/6224A22A4/2**

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

**MOD AFCP/6224A22A4/3**

**2 Aggregate  $C/I$**

The aggregate  $(C/I)_{agg}$  at a given downlink test point is given by:

$$(C/I)_{agg} = -10 \log_{10} \left( \sum_j^n 10^{-\frac{(C/I)_{t_j}}{10}} \right) \quad \text{dB}$$

$j = 1, 2, 3 \dots n,$

where:

$(C/I)_j$ : overall carrier-to-interference ratio due to interference from the  ~~$j^{\text{th}}$~~  <sup>$j^{\text{th}}$</sup>  allotment or assignment calculated using the method for overall single-entry  $(C/I)_i$  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 ~~74~~<sup>74</sup>° in the case of the 6/4 GHz band and less than or equal to ~~69~~<sup>69</sup>° in the case of the 13/10-11 GHz band.

<sup>15bis</sup> 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)