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| **World Radiocommunication Conference (WRC-19) Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Addendum 4 to Document 28-E** |
|  | **27 September 2019** |
|  | **Original: Chinese** |
|  | |
| China (People's Republic of) | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.4 | |

1.4 to consider the results of studies in accordance with Resolution **557 (WRC-15)**, and review, and revise if necessary, the limitations mentioned in Annex 7 to Appendix **30 (Rev.WRC‑15)**, while ensuring the protection of, and without imposing additional constraints on, assignments in the Plan and the List and the future development of the broadcasting-satellite service within the Plan, and existing and planned fixed-satellite service networks;

Introduction

This document presents China’s proposals for agenda item 1.4. Two methods have been identified in the CPM Report to WRC-19 to satisfy this agenda item.

Proposals

China supports Method B in the CPM Report and ITU-R studies to be conducted in this respect. China is of the view that any possible revision to the limitations mentioned in Annex 7 to Appendix **30 (Rev.WRC-15)** to the Radio Regulations under Resolution **557 (WRC-15)** should not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band in Region 3.

APPENDIX 30 (REV.WRC‑15)[[1]](#footnote-1)\*

Provisions for all services and associated Plans and List[[2]](#footnote-2)1 for  
the broadcasting-satellite service in the frequency bands  
11.7-12.2 GHz (in Region 3), 11.7-12.5 GHz (in Region 1)  
         and 12.2-12.7 GHz (in Region 2)    (WRC‑03)

MOD CHN/28A4/1#49974

ANNEX 7     (Rev.WRC‑03)

Orbital position limitationsADD [[3]](#footnote-3)YY, ADD [[4]](#footnote-4)ZZ

MOD CHN/28A4/2#49975

1) No broadcasting satellite serving an area in Region 1 and using a frequency in the band 11.7-12.2  GHz shall occupy a nominal orbital position further east than 146 E.

**Reasons:** It would not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band for Region 3.

MOD CHN/28A4/3#49976

2) No broadcasting satellite serving an area in Region 2 and using a frequency in the band 12.2-12.7 GHz that involves an orbital position different from that contained in the Region 2 Plan shall occupy a nominal orbital position

further west than 175.2° W.

However, modifications necessary to resolve possible incompatibilities during the incorporation of the Regions 1 and 3 feeder-link Plan into the Radio Regulations shall be permitted.

**Reasons:** It would not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band for Region 3.

SUP CHN/28A4/4#49977

3) The purpose of the following orbital position and e.i.r.p. limitations is to preserve access to the geostationary-satellite orbit by the Region 2 fixed-satellite service in the band 11.7‑12.2 GHz. Within the orbital arc of the geostationary-satellite orbit between 37.2° W and 10° E, the orbital position associated with any proposed new or modified assignment in the Regions 1 and 3 List of additional uses shall lie within one of the portions of the orbital arc listed in Table 1. The e.i.r.p. of such assignments shall not exceed 56 dBW, except at the positions listed in Table 2.

**Reasons:** It would not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band for Region 3.

SUP CHN/28A4/5#49978

TABLE 1

Allowable portions of the orbital arc between 37.2°W and 10° E for new or modified   
assignments in the Regions 1 and 3 Plan and List

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Orbital position** | 37.2° W to 36° W | 33.5°W to 32.5° W | 30° W to 29° W | 26° W to 24° W | 20° W to 18° W | 14° W  to 12° W | 8° W  to 6° W | 4° W 1 | 2° W to 0° | 4° E to 6° E | 9° E 1 |
| 1 Proposed new or modified assignments in the List which involve this orbital position shall not exceed the power flux-density limit −138 dB(W/(m2 · 27 MHz)) at any point in Region 2. | | | | | | | | | | | |

**Reasons:** It would not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band for Region 3.

SUP CHN/28A4/6#49979

TABLE 2

Nominal positions in the orbital arc between 37.2° W and 10° E at which the   
e.i.r.p. may exceed the limit of 56 dBW

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Orbital position** | 37° W ± 0.2° | 33.5° W | 30° W | 25° W ± 0.2° | 19° W ± 0.2° | 13° W ± 0.2° | 7° W ± 0.2° | 4° W 1 | 1° W ± 0.2° | 5° E ± 0.2° | 9° E 1 |
| 1 Proposed new or modified assignments in the List which involve this orbital position shall not exceed the power flux-density limit−138 dB(W/(m2 · 27 MHz)) at any point in Region 2. | | | | | | | | | | | |

**Reasons:** It would not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band for Region 3.

NOC CHN/28A4/7#49980

B The Region 2 Plan is based on the grouping of the space stations in nominal orbital positions of ±0.2° from the centre of the cluster of satellites. Administrations may locate those satellites within a cluster at any orbital position within that cluster, provided they obtain the agreement of administrations having assignments to space stations in the same cluster. (See § 4.13.1 of Annex 3 to Appendix **30A**.)

**Reasons:** It would not adversely affect current and future FSS/BSS usage in the 11.7-12.7 GHz frequency band for Region 3.

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1. \* The expression “frequency assignment to a space station”, wherever it appears in this Appendix, shall be understood to refer to a frequency assignment associated with a given orbital position. See also Annex 7 for the orbital limitations.     (WRC‑2000) [↑](#footnote-ref-1)
2. 1 The Regions 1 and 3 List of additional uses is annexed to the Master International Frequency Register (see Resolution **542 (WRC‑2000)**\*\*).     (WRC‑03)

   \*\* *Note by the Secretariat*: This Resolution was abrogated by WRC‑03.

   *Note by the Secretariat*: Reference to an Article with the number in roman is referring to an Article in this Appendix. [↑](#footnote-ref-2)
3. YY See Resolution **[A14-LIMITA3] (WRC‑19)**. [↑](#footnote-ref-3)
4. ZZ Resolution **[C14-LIMITA1A2] (WRC‑19)** applies to broadcasting satellites serving areas in Region 1 in the band 11.7-12.2 GHz from nominal orbital positions further west than 37.2° W and broadcasting satellites serving areas in Region 2 in the band 12.5-12.7 GHz from nominal orbital positions further east than 54° W. [↑](#footnote-ref-4)