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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Document 96-E** |
|  | **19 October 2015** |
|  | **Original: English** |
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| Turkey | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 7 | |

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

Introduction

Pursuant to the data item C 11.a in Table C of Annex 2 of Appendix 4 to the Radio Regulations related to the service area characteristics, the notifying administrations have to provide a set of a maximum of twenty test points on Earth for each group of frequency assignments for a satellite antenna beam or an earth station or radio astronomy antenna belonging to satellite networks submitted in accordance with Appendices 30/30A/30B. These test points are used as reference locations for those satellite networks in order to compute the level of interference and the associated level of C/I degradation caused by subsequent satellite network filings. Therefore, the number and the proper selection of test points has a critical importance in protecting service areas of satellite networks subject to the provisions of Appendices 30/30A/30B.

Proposal

The Administration of Turkey proposes to remove the limitation on the number of test points for each group of frequency assignments for a satellite antenna beam or an earth station or radio astronomy antenna belonging to satellite networks submitted in accordance with Appendices 30/30A/30B by amending the data item C 11.a in Table C of Annex 2 of Appendix 4 to the Radio Regulations as follows.

APPENDIX 4 (REV.WRC‑12)

Consolidated list and tables of characteristics for use in the  
application of the procedures of Chapter III

ANNEX 2

Characteristics of satellite networks, earth stations  
or radio astronomy stations2      (Rev.WRC‑12)

Footnotes to Tables A, B, C and D

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**TABLE C**

CHARACTERISTICS TO BE PROVIDED FOR EACH GROUP OF FREQUENCY ASSIGNMENTS FOR A SATELLITE ANTENNA BEAM OR AN EARTH STATION OR RADIO ASTRONOMY ANTENNA

| **Items in Appendix** | ***C \_ CHARACTERISTICS TO BE PROVIDED FOR EACH GROUP OF FREQUENCY  ASSIGNMENTS FOR A SATELLITE ANTENNA BEAM OR AN EARTH STATION  OR RADIO ASTRONOMY ANTENNA*** | **Advance publication of a geostationary-satellite network** | **Advance publication of a non-geostationary-satellite network subject to coordination under Section II of Article 9** | **Advance publication of a non-geostationary-satellite network not subject to coordination under Section II  of Article 9** | **Notification or coordination of a geostationary-satellite network (including space operation functions under Article 2A of Appendices 30 or 30A)** | **Notification or coordination of a non-geostationary-satellite network** | **Notification or coordination of an earth station (including notification under Appendices 30A or 30B)** | **Notice for a satellite network in the broadcasting-satellite service under Appendix 30 (Articles 4 and 5)** | **Notice for a satellite network (feeder-link) under Appendix 30A  (Articles 4 and 5)** | **Notice for a satellite network in the fixed-satellite service under Appendix 30B (Articles 6 and 8)** | **Items in Appendix** | **Radio astronomy** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **C.11** | **SERVICE AREA (S)**  *For all space applications except active or passive sensors* |  | | | | | | | | | **C.11** |  |
| C.11.a | the service area or areas of the satellite beam on the Earth, when the associated transmitting or receiving stations are earth stations  For a space station submitted in accordance with Appendix **30**, **30A** or **30B**, the service area identified by a set of test points and by a service area contour on the surface of the Earth or defined by a minimum elevation angle  For advance publication of satellite networks subject to coordination, only a list of countries and geographical areas, using the symbols from the Preface, or a narrative description of the service area shall be supplied | **X** | **X** | **X** | **X** | **X** |  | **X** | **X** | **X** | C.11.a |  |

**Reasons:** Appendix 30/30A/30B Space Plans are principally and essentially developed with service areas covering national territories to guarantee in practice, for all countries, equitable access to the geostationary-satellite orbit in the associated specific frequency bands covered by those appendices to the RR.

On the other hand, it is a tendency to submit Appendix 30/30A/30B satellite network filings with global or sub-global service areas, nowadays. It is thought that a maximum of twenty test points is insufficient to protect a global service area. Therefore, it has been quite a common practice to reproduce a beam or a group many times with slight modifications to the service area, for example, in order to be able to submit new sets of twenty test points for proper protection of the intended service area. As a result of this, Appendix 30/30A/30B Plans and Lists are overgrowing in number of beams and groups in an unrealistic manner.

Removal of the limitation of the maximum number of twenty test points would eliminate filing submissions with excessive number of beams and groups which would eventually result in more realistic and efficient Appendix 30/30A/30B Plans and Lists.

It is also foreseen that the proposed modification to Appendix 4 may require slight changes to some of the ITU Software tools (i.e. SpaceCap, SPS and GIBC). On the other hand, the Administration of Turkey is of the opinion that the proposed modification would eventually result in a better practice in application of Appendices 30/30A/30B Plans and Lists.

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