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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 2 to Document 43-E** |
|  | **3 October 2019** |
|  | **Original: English** |
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| Bulgaria (Republic of) | |
| Proposals for the work of the conference | |
| Request to WRC-19 to consider the inclusion in the Appendix 30 and 30A Plans of 10 assignments, in replacement of Bulgaria’s assignments appearing in the Plans, pursuant to paragraph 4.1.27 of Article 4 of Appendices 30 and 30A. | |
| Agenda item 9.3 | |

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

9.3 on action in response to Resolution **80 (Rev.WRC-07)**;

WRC-19 Agenda item 9.3 references to Resolution **80** **(Rev.WRC-07)**. *Resolves* 1and 2 of this Resolution refer to the application of the basic principles contained in Article 44 of the ITU Constitution and No. 0.3 of the Radio Regulations Preamble for the use of the spectrum-orbital resources, for better application of which in view of the difficulties described in Annex 1 to Resolution **80**, considerations are given in Annex 2 to Resolution **80**.

Introduction

In fulfilment of the decision of WRC-12 Plenary Meeting included in Annex A to Document 552, the Administration of the Republic of Bulgaria is requesting WRC-19 to consider the inclusion in the RR Appendix **30** and **30A** Plans of 10 assignments at orbital position 1.9° E, in replacement of Bulgaria’s assignments appearing in the current Plans at 1.2° W, pursuant to paragraph 4.1.27 of Article 4 of RR Appendices **30** and **30A** and according to paragraph d) of the WRC-12 decision:

“d) that upon successful completion of the procedure of Article 4 of RR Appendix **30** for the above-mentioned assignments, the Administration of Bulgaria shall request the subsequent WRC, without any changes to Annex 7 of RR Appendix **30**, to consider the inclusion in the Appendix **30** and **30A** Plans of up to 10 assignments, in replacement of its assignments appearing in the Plans, pursuant to paragraph 4.1.27 of Article 4 of RR Appendix **30** and paragraph of Article 4.1.27 of Article 4 of RR Appendix **30A**.”

Background

The Bulgarian assignments at 1.2° W in the current Regions 1 and 3 BSS Plan in RR Appendix **30** are impossible, from a practical standpoint, to be used for the deployment of a real and effective BSS network despite of the relatively high EPM values at the test points due to some notified and already in operation Article 4 BSS satellite networks at a very close orbital position. The Administration of the Republic of Bulgaria did not want, as well, to cause any operational difficulties to already established satellite operators and disruption of services to an existing large community of users. That is why the Administration of the Republic of Bulgaria asked in Addendum 3 to Document 58 WRC-12 to consider the possibility to allow, on an exceptional basis, to use the 1.9° E orbital position to submit assignments in the 11.7-12.2 GHz band for coordination under RR Appendix **30** Article 4 with subsequent notification. The Bulgarian proposal was supported with detailed technical analyses in documents of various ITU-R and CEPT meetings demonstrating and proving that even if the 1.9° E orbital position is in a forbidden orbital arc for Region 1 BSS systems in the 11.7-12.2 GHz band according to the existing provisions in Section A3 of Annex 7 of RR Appendix **30**, the interference impact into the existing Region 2 FSS networks will be negligible at maximum e.i.r.p. 56 dBW and 45 dB side-lobe suppression of the BSS satellite transmitting antenna diagram into Region 2.

The conditions agreed at WRC-12 (Document 517) and confirmed as WRC-12 decision (Annex A to Document 552) were applied by the Bulgarian administration as a basis of submission under Article 4 of the RR Appendix **30**[[1]](#footnote-1) and after successful completion of the procedure were notified and included in the Part B List of BSS networks for additional uses[[2]](#footnote-2). The corresponding FL assignments were also submitted under Article 4 of the RR Appendix **30A** and included in the Part B List of Appendix **30A**[[3]](#footnote-3) after successful coordination and subsequent notification.

The Bulgarian request to WRC-19

Based on the results of the activities conducted after WRC-12 and the successful completion of the procedure of Article 4 of RR Appendix **30** and notification of the RR Appendix **30** Article 4 filing for BSS channels in the band 11.7-12.2 GHz at the orbital position 1.9° E, the Bulgarian Administration is seeking at WRC-19 a decision to include 10 of these channels together with the corresponding feeder-link channels in the BSS/feeder-link Plans as Bulgarian assignments in these Plans in replacement of the existing Bulgarian BSS/feeder-link Plans assignments at orbital position 1.2°W.

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It is proposed to WRC-19 that in implementation of the decision of WRC-12, stipulated in paragraph d) of Annex A to Document 552, and taking into account the results of the work done by the Administration of Bulgaria referred above on submission, coordination and notification under the provisions of RR Appendix **30**, of BSS assignments at 1.9° E in the band 11.7-12.2 GHz with the technical characteristics specified in paragraphs a) and b) of Annex A to Document 552, as well as for the corresponding feeder-link assignments, the provisions in paragraph 4.1.27 of Article 4 of Appendix **30** to be applied, as well as the corresponding provisions in paragraph 4.1.27 of Article 4 of Appendix **30A**, transferring 10 BSS assignments (channels 1, 2, 3, 4, 5, 6, 7, 8, 17 and 18) and the corresponding feeder-link assignments (channels 1, 2, 3, 4, 5, 6, 7, 8, 17 and 18) at 1.9° E from the BSS and feeder-link Lists to BSS and feeder-link Plans as Bulgarian Plan assignments at 1.9° E replacing those at 1.2°W.

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1. Special Section AP30/E/599 (Part A) annexed to BR IFIC No.2725/07.08.2012 [↑](#footnote-ref-1)
2. Special Section AP30/E/599 (Part B) annexed to BR IFIC No.2818/26.04.2018 [↑](#footnote-ref-2)
3. Special Section AP30A/E/542 (Part A) annexed to BR IFIC No.2690/22.03.2011 and Special Section AP30A/E/542 (Part B) annexed to BR IFIC No.2780/14.10.2014 [↑](#footnote-ref-3)