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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Addendum 7 to Document 130-E** |
|  | **16 October 2015** |
|  | **Original: English** |
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| Angola (Republic of)/Botswana (Republic of)/Lesotho (Kingdom of)/ Madagascar (Republic of)/Malawi/Mauritius (Republic of)/ Mozambique (Republic of)/Namibia (Republic of)/Democratic Republic  of the Congo/Seychelles (Republic of)/South Africa (Republic of)/ Swaziland (Kingdom of)/Tanzania (United Republic of)/ Zambia (Republic of)/Zimbabwe (Republic of) | |
| Proposals for the work of the conference | |
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| Agenda item 1.7 | |

1.7 to review the use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth-to-space) (limited to feeder links of the non-geostationary mobile-satellite systems in the mobile-satellite service) in accordance with Resolution **114 (Rev.WRC‑12)**;

Introduction

Resolution 114 (Rev.WRC-12) calls for a review of allocations to both the aeronautical radionavigation service (ARNS) and the fixed-satellite service (FSS) in the band 5 091-5 150 MHz.

In particular, studies are called for in *resolves* 3 between any new ARNS and the systems of the FSS providing feeder links of non-GSO systems in the mobile-satellite service (MSS) (Earth-to-space). In the *invites*, ICAO was asked to supply technical and operational criteria suitablefor sharing studies for new aeronautical systems. ICAO indicated during the study cycle that it does not foresee or plan any new ARNS (non MLS) systems, in the band 5 091-5 150 MHz. On this basis, no new studies in that band were required.

On this basis, no new studies were required in the band 5 091-5 150 MHz and ITU-R concluded that the regulatory conditions contained in Resolution 114 (Rev.WRC-12) and the technical and operational requirements contained in Recommendation ITU-R S.1342 will continue to ensure the compatibility of the FSS providing Earth-to-space feeder links in the band 5 091-5 150 MHz and international standard MLS operating in the adjacent band 5 030-5 091 MHz.

The 5 030-5 091 MHz core MLS band supports 200 internationally standardized channels for use by MLS systems. Channels may be re-used within a Region or country, whenever sufficient geographic separation exists between MLS systems.

Proposals

SADC proposes:

– that the use of the band 5 091-5 150 MHz by systems of the FSS providing Earth-to-space feeder links of non-GSO systems in the MSS be maintained as a primary allocation;

– that each of the time limits on this allocation given in RR No. 5.444A, i.e. after 1 January 2016 no new assignments shall be made, and after 1 January 2018 the FSS will become secondary to the ARNS, be suppressed;

– that the text specifying that “use of the band 5 091-5 150 MHz by FSS feeder links shall be made in accordance with Resolution 114 (Rev.WRC-15)” be added to the footnote;

– that coordination between FSS earth stations and ARNS ground stations is required under certain circumstances to ensure that the ARNS is protected from harmful interference and that a fixed distance be used in determining the coordination area; and

– that flexibility for AM(R)S be improved while ensuring protection of the FSS.

An improved flexibility would be possible for managing the interference contribution from AM(R)S by allowing its contribution to ΔTs/Ts to increase beyond the 2% limit, set forth in Recommendation ITU-R M.1827-1, whenever the ARNS contribution is below 3%. When the ARNS contribution is above 3%, the current hard limit of 2% on the AM(R)S contribution still applies.

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A7/1

4 800-5 570 MHz

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| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 5 091-5 150 FIXED-SATELLITE (Earth-to-space) 5.444A  AERONAUTICAL MOBILE 5.444B  AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA  AERONAUTICAL RADIONAVIGATION  5.444 | | |
| 5 150-5 250 FIXED-SATELLITE (Earth-to-space) 5.447A  MOBILE except aeronautical mobile 5.446A 5.446B  AERONAUTICAL RADIONAVIGATION  5.446 5.446C 5.447 5.447B 5.447C | | |

**Reasons:** The FSS allocation has been moved from footnote 2 RR No. 5.444A to the Table of frequency allocations as a consequence of rendering the FSS allocation without time limits.

MOD AGL/BOT/LSO/MDG/MWI/MAU/MOZ/NMB/COD/SEY/AFS/SWZ/TZA/ZMB/  
ZWE/130A7/2

5.444A The use of the allocation to the fixed‑satellite service (Earth-to-space) in the band 5 091-5 150 MHz is limited to feeder links of non‑geostationary satellite systems in the mobile-satellite service and is subject to coordination under No. **9.11A**. The use of the band 5 091-5 150 MHz by feeder links of non‑geostationary satellite systems in the mobile-satellite service shall be subject to application of Resolution **114 (Rev.WRC‑15)**. Moreover, to ensure that the aeronautical radionavigation service is protected from harmful interference, coordination is required for feeder-link earth stations of the non-geostationary satellite systems in the mobile-satellite service which are separated by less than 450 km from the territory of an administration operating ground stations in the aeronautical radionavigation service.

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