

EUROPEAN COMMON PROPOSALS

PART 11

Agenda Item 1.11 AMSS (Earth-to-space) secondary allocation at 14 GHz

Introduction

Agenda item 1.11 requests the conference to consider the possible extension of the allocation to the mobile-satellite service (MSS) (Earth-to-Space) on a secondary basis in the band 14-14.5 GHz to permit operation of the aeronautical mobile-satellite service (AMSS).

All or parts of the band 14-14.5 GHz are allocated on a primary basis to the fixed-satellite service (Earth-to-space), radionavigation, fixed and mobile services (except aeronautical mobile service). Secondary services allocated in all or parts of the band include: mobile-satellite service (Earth-space) (except AMSS), space research, radio astronomy, and radionavigation-satellite service.

MSS systems have been in operation for many years offering land and maritime mobile-satellite services with a proven ability to operate in co-existence with all other services having primary or secondary allocation in the same band. The AMSS in the 14-14.5 GHz band is being proposed to meet a growing demand for two-way broadband communications by passengers and operators of commercial aircraft.

Resolution 216 (Rev. WRC-2000) called for *inter alia* studies to assess the feasibility of sharing the band 14 – 14.5 GHz between primary services in the band and the AMSS, with the latter service on a secondary basis. Studies were performed with all services including those on a secondary basis (where operating parameters were available). These studies determined that these services will be adequately protected provided that the AMSS operates within a defined operating characteristics, as included in the DNR ITU-R M.[AMSS].

CEPT supports the extension of the allocation to the MSS uplink on a secondary basis in the band 14.0 – 14.5 GHz for the aeronautical mobile-satellite service (Earth-to-space) provided that the technical and operational limitations specified in the DNR ITU-R M [AMSS] are applied to the AMSS in order to provide adequate protection of the terrestrial, space services and the radioastronomy service in the band from harmful interference due to stations operating in the aeronautical mobile-satellite service.

In addition, CEPT recognises that some CEPT Administrations operate FS or Radioastronomy systems in the 14.25-14.5 GHz band and accepts that some of these Administrations will propose to WRC-03, on a national basis, country footnotes that would specify the necessary protection in the RR as detailed in Recommendation ITU-R M[AMSS] in order to make the technical and operational constraints imposed to AMSS stations that could impact the stations on their territory.

Proposals

1. To extend the secondary allocation to include the aeronautical mobile-satellite service (Earth-to-Space) in the 14 – 14.5 GHz band by removing the phrase “except aeronautical mobile-satellite” from the allocation.
2. Suppress the Resolution 216 (WRC-2000) following an AMSS allocation at 14 GHz at WRC-03.

Taking into account the above proposals, Article 5 would be amended as follows:

MOD EUR/1.11/1

11.7-14.25 GHz

Allocation to services		
Region 1	Region 2	Region 3
14-14.25 research	FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.505	Space

Reason: *Conclusion has been reached that the exception concerning the aeronautical mobile satellite is no longer needed.*

MOD EUR/1.11/2

14.25-15.63 GHz

Allocation to services		
Region 1	Region 2	Region 3
14.25-14.3	FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) Space research 5.505 5.508 5.509	
14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) Radionavigation-satellite	14.3-14.4 FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 Mobile-satellite (Earth-to-space) Radionavigation-satellite	14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to- space) Radionavigation-satellite

14.4-14.47	FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) Space research (space-to-Earth)
14.47-14.5	FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) Radio astronomy 5.149

Reason: *Conclusion has been reached that the exception concerning the aeronautical mobile satellite is no longer needed.*

SUP **EUR/1.11/3**

RESOLUTION 216 (REV.WRC-2000)

Possible broadening of the secondary allocation to the mobile-satellite service (Earth-to-space) in the band 14-14.5 GHz to cover aeronautical applications

Reason: *The studies called for in this Resolution have been completed.*