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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Addendum 13 to Document 32-E** |
|  | **29 September 2015** |
|  | **Original: English** |
|  | |
| Asia-Pacific Telecommunity Common Proposals | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.13 | |

1.13 to review No. **5.268** with a view to examining the possibility for increasing the 5 km distance limitation and allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle, in accordance with Resolution **652 (WRC‑12)**;

Introduction

APT Members support the single Method to satisfy this agenda item as presented in the CPM Report to WRC-15.

The single Method removes the 5 km distance limitation of RR No. 5.268while maintaining the pfd limits of this footnote for use of space research service (space-to-space) space vehicles communicating with an orbiting manned space vehicle. APT Members noted that the addition of pfd limits by WRC-97 assures the protection of systems operating in the fixed and mobile services and technically rendered the distance limit unnecessary. APT Members also note that vehicles approaching the International Space Station (ISS), whether manned or robotic, need to communicate over somewhat longer distances to ensure safe operations and docking manoeuvres.

APT Members therefore agree with the single Method and propose that RR No. 5.268 be modified to remove the 5 km distance limitation and not solely limit the use of the band for extra-vehicular activities.

Proposals

ARTICLE 5

Frequency allocations

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

MOD ASP/32A13/1

410-460 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 410-420 FIXED  MOBILE except aeronautical mobile  SPACE RESEARCH (space-to-space) MOD 5.268 | | |

**Reasons:** RR No. 5.268 is modified.

MOD ASP/32A13/2

5.268 Use of the frequency band 410-420 MHz by the space research service is limited to space-to-space communications with an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from transmitting stations of the space research service (space-to-space) in the frequency band 410-420 MHz shall not exceed –153 dB(W/m2) for 0 ≤ δ ≤ 5, ‑153  0.077 (δ – 5) dB(W/m2) for 5 ≤ δ ≤ 70 and –148 dB(W/m2) for 70 ≤ δ ≤ , where δ is the angle of arrival of the radio-frequency wave and the reference bandwidth is 4 kHz. In this frequency band stations of the space research (space-to-space) service shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. No. **4.10** does not apply.     (WRC‑15)

**Reasons:** To remove the 5 km distance limitation and not solely limit the use of the band to extra-vehicular activities.

SUP ASP/32A13/3

RESOLUTION 652 (WRC‑12)

Use of the band 410-420 MHz by the space research service (space-to-space)

**Reasons:** Resolution 652 (WRC-12) is no longer required.

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