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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 toDocument 28-E** |
|  | **16 September 2015** |
|  | **Original: English** |
|  |
| African 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)**;

ARTICLE 5

Frequency allocations

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

MOD AFCP/28A13/1

410-460 MHz

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| 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:**

1) This method would allow vehicles approaching the ISS, whether manned or robotic, to communicate over longer distances to ensure safe operations and docking manoeuvres.

2) This method will allow for further development of space facilities to allow for increased support of many of the planned and envisioned space activities.

3) This method will ensure protection for the fixed and mobile service.

NOTE**–**This proposal only applies to the frequency range 410-420 MHz.

MOD AFCP/28A13/2

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)

SUP AFCP/28A13/3

RESOLUTION 652 (WRC‑12)

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

**Reasons:** If the proposed method is agreed at WRC-15, this Resolution will no longer be necessary.

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