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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Addendum 11 to Document 107-E** |
|  | **19 October 2015** |
|  | **Original: English** |
|  | |
| India (Republic of) | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.11 | |

1.11to consider a primary allocation for the Earth exploration-satellite service (Earth-to-space) in the 7-8 GHz range, in accordance with Resolution **650 (WRC‑12)**;

Introduction

A sizable number of future EESS missions will require to uplink to the spacecraft a large amount of data for operations plans and dynamic spacecraft software modifications.

An EESS (Earth-to-space) allocation in the 7-8 GHz frequency range would cater to this requirement without placing undue burden in the 2 GHz band traditionally being used for telecommand by numerous satellites.

India considers that it is necessary to allocate 7 190-7 250 MHz to the Earth exploration-satellite service (Earth-to-space) on a global primary basis. India is also of the view that the allocated services in this band should be adequately protected from potential interference due to the possible new allocation to the Earth exploration-satellite service (Earth-to-space), in accordance with Resolution 650 (WRC-12), and no constraints should be placed on these services.

Accordingly, India submits a proposal with a variation to Method A of the CPM Report.

Proposals

ARTICLE 5

Frequency allocations

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

MOD IND/107A11/1

5 570-7 250 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 7 145-7 190 FIXED  MOBILE  SPACE RESEARCH (deep space) (Earth-to-space)  5.458 MOD 5.459 | | |
| 7 190-7 235 EARTH EXPLORATION-SATELLITE (Earth-to-space) ADD 5.A111 ADD 5.B111  FIXED  MOBILE  SPACE RESEARCH (Earth-to-space) MOD 5.460  5.458 MOD 5.459 | | |
| 7 235-7 250 EARTH EXPLORATION-SATELLITE (Earth-to-space) ADD 5.A111  FIXED  MOBILE  5.458 | | |

MOD IND/107A11/2

5.459 *Additional allocation:*in the Russian Federation, the frequency bands 7 100-7 155 MHz and 7 190-7 235 MHz are also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. **9.21**. In the frequency band 7 190-7 235 MHz, No. **9.21** with respect to the Earth exploration-satellite service (Earth-to-space) does not apply.     (WRC-15)

**Reasons:** In the frequency band 7 190-7 235 MHz RR No. 9.21 is applied to the space operation service in order to provide protection for the existing radio services and shall not be applied with respect to a new service (the EESS) not to impose new constraints on the existing radio service.

MOD IND/107A11/3

5.460 No emissions to spacecraft operating in deep space shall be effected in the frequency band 7 190-7 235 MHz. Geostationary satellites in the space research service operating in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the fixed and mobile services and No. 5.43Adoes not apply.     (WRC-15)

**Reasons:** Deletion of first sentence as consequential changes. Addition of words “spacecraft operating in” to be more precise.

ADD IND/107A11/4

5.A111 The use of the frequency band 7 190-7 250 MHz by the Earth exploration-satellite service shall be limited to tracking, telemetry and command for the operation of the spacecraft, and that Earth exploration-satellite service geostationary satellites in this frequency band shall not claim protection from existing and future stations of the fixed and mobile services, and No. **5.43A** does not apply.     (WRC‑15)

**Reasons:** To provide a new allocation to the EESS (Earth-to-space) in the frequency band 7 190-7 250 MHz. The TT&C function could be implemented by pairing this new allocation with the already existing EESS (space-to-Earth) allocation in the frequency band 8 025-8 400 MHz. It restricts the usage of the frequency band 7 190-7 250 MHz to the operation of the EESS spacecraft, because the aim for the Resolution 650 (WRC-12) is to obtain a new allocation in the frequency range 7-8 GHz for the TT&C operations and no studies regarding other purpose except for TT&C function have been performed. If there were no restriction, this new allocation might be used for other purposes (e.g. data dissemination).

ADD IND/107A11/5

5.B111 Space stations in the Earth exploration-satellite service (Earth-to-space) operating in the geostationary-satellite orbit shall not claim protection from emissions from the space research service in the frequency band 7 190-7 235 MHz.     (WRC‑15)

**Reasons:** No constraints should be placed on the allocated space research service in the frequency band 7 190-7 235 MHz due to the possible new allocation to the Earth exploration-satellite service (Earth-to-space), in accordance with Resolution 650 (WRC-12).

SUP IND/107A11/6

RESOLUTION 650 (WRC‑12)

Allocation for the Earth exploration-satellite service   
(Earth-to-space) in the 7-8 GHz range

**Reasons:** The studies under this Resolution has been completed and no longer necessary.

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