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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| **PLENARY MEETING** | **Addendum 18 to Document 8-E** |
|  | **5 June 2015** |
|  | **Original: Russian** |
|  | |
| Regional Commonwealth in the field of Communications Common Proposals | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.18 | |

1.18 to consider a primary allocation to the radiolocation service for automotive applications in the 77.5-78.0 GHz frequency band in accordance with Resolution **654 (WRC‑12)**;

Resolution **654 (WRC‑12)**: Allocation of the band 77.5-78 GHz to the radiolocation service to support automotive short-range high-resolution radar operations

Introduction

The RCC Administrations support the worldwide primary allocation to the radiolocation service of the band between 77.5 and 78.0 GHz for the use of short‑range high-resolution radars.

The RCC Administrations note that, in order to avoid possible interference for the RAS operating in the frequency band 77.5‑78 GHz, it is essential to apply methods of mitigating the effects of interference, such as establishing appropriate radiated power limits and restrictions on antenna heights as specified in Recommendation ITU‑R M.2057.

It is proposed that the corresponding amendments be made to Article 5 of the Radio Regulations (on the basis of Method A, Option 1, in the CPM Report) and that Resolution **654 (WRC‑12)** be abrogated.

Proposals

ARTICLE 5

Frequency allocations

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

MOD RCC/8A18/1

66-81 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 76-77.5 RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  Space research (space-to-Earth)  5.149 | | |
| 77.5-78 AMATEUR  AMATEUR-SATELLITE  RADIOLOCATION ADD 5.A118  Radio astronomy  Space research (space-to-Earth)  5.149 | | |
| 78-79 RADIOLOCATION  Amateur  Amateur-satellite  Radio astronomy  Space research (space-to-Earth)  5.149 5.560 | | |
| 79-81 RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  Space research (space-to-Earth)  5.149 | | |

ADD RCC/8A18/2

5.A118 The use of the 77.5-78 GHz frequency band by the radiolocation service is limited to the use of short‑range radars with the following technical characteristics:

– maximum e.i.r.p. 33 dBm

– maximum transmit power to antenna 10 dBm

– antenna height above road 0.3 – 1 m.

**Reasons:** The studies carried out by ITU‑R to assess the compatibility of short‑range radars operating in the 77.5-78 GHz frequency band with existing systems were done only for these technical characteristics.

SUP RCC/8A18/3

RESOLUTION 654 (WRC‑12)

Allocation of the band 77.5-78 GHz to the radiolocation service to support automotive short-range high-resolution radar operations

**Reasons:** The RCC Administrations consider that Resolution 654 (WRC‑15) will be redundant following the completion of studies and allocation of the band to the radiolocation service at WRC‑15 and must be removed.

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