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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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|  | **Addendum 18 to Document 62-E** |
|  | **16 October 2015** |
|  | **Original: Chinese** |
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| China (People’s Republic of) | |
| Proposals for the work of the conference | |
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| 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)**;

Introduction

Agenda item 1.18 calls for consideration of a primary allocation to the radiolocation service for automotive radar applications in the frequency band 77.5-78.0 GHz in accordance with Resolution 654 (WRC-12).

Working Parties 5A and 5B under ITU-R SG 5 have finished technical, operational and regulatory studies as the responsible groups for this agenda item with the help of other concerned groups. Regarding the study on operational characteristics, new Recommendation ITU-R М.2057 “Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications” was published in February 2014. Regarding the sharing and compatibility studies, Report ITU-R M.2322-0 “Systems characteristics and compatibility of automotive radars operating in the frequency band 77.5-78 GHz for sharing studies” has also been published. Based on the technical parameters of automotive radars in Recommendation ITU‑R М.2057, this Report concluded that “in the 77.5-78 GHz band, sharing is feasible between automotive radars and incumbent services”.

In the CPM Report, two methods have been introduced to satisfy this agenda item. Both provide a primary allocation to the RLS in the frequency band 77.5-78 GHz on a worldwide basis, which can be used by automotive applications. While Method A limits the use of the new allocation to automotive radars, Method B puts no constraints on the new allocation.

Views

China is in favour of an additional primary allocation to the RLS on a worldwide basis in the band 77.5-78.0 GHz, limited to short-range radar applications, including automotive applications.

Proposals

ARTICLE 5

Frequency allocations

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

MOD CHN/62A18/1

66-81 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 77.5-78 AMATEUR  AMATEUR-SATELLITE  RADIOLOCATION 5.A118  Radio astronomy  Space research (space-to-Earth)  5.149 | | |

ADD CHN/62A18/2

5.A118 The use of the frequency band 77.5-78 GHz by the radiolocation service is limited to short-range radar applications, including automotive applications.

**Reasons:** Harmonized worldwide band for short range high-resolution radar applications would result in reduced traffic fatalities and injuries on the road, and improved vehicle safety.

SUP CHN/62A18/3

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

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