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| **World Radiocommunication Conference (WRC-19) Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Addendum 7 to Document 28(Add.21)-E** |
|  | **27 September 2019** |
|  | **Original: Chinese** |
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| China (People's Republic of) | |
| Proposals for the work of the conference | |
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| Agenda item 9.1(9.1.7) | |

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

9.1 on the activities of the Radiocommunication Sector since WRC-15;

9.1 (9.1.7) Resolution **958 (WRC-15)** – Annex item 2) Studies to examine: a) whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. **18.1**; b) the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management programme, in accordance with Resolution ITU-R 64 (RA-15);

Introduction

While the 2015 ITU Radiocommunication Assembly (RA-15) addressed this matter through the establishment of Resolution ITU-R 64 *Guidelines for the management of unauthorized operation of earth station terminals*, WRC-15 subsequently included further studies under Issue 2) in Annex to Resolution **958 (WRC-15)**.

The first session of the Conference Preparatory Meeting for WRC-19 (CPM19-1) has identified Working Party (WP) 1B as the responsible group to carry out the studies requested in Resolution **958 (WRC-15)** Annex item 2) (also numbered by CPM19-1 as issue 9.1.7 under WRC‑19 agenda item 9.1) and WPs 1C and 4A as contributing groups (see Administrative Circular [CA/226](http://www.itu.int/md/R00-CA-CIR-0226/en)).

In relation to an enquiry from WP 1B on requests of application of No. **18.1** of the Radio Regulations with respect to any unauthorized uplink from earth station terminals, the Bureau reviewed all correspondences from administrations between November 2007 and April 2017 and has not found any administration request (Document [1B/147](https://www.itu.int/md/R15-WP1B-C-0147/en)).

WP 1B at its November 2016 meeting decided to issue a Questionnaire for the studies on issue 9.1.7. The Questionnaire was sent in BR Circular Letter [1/LCCE/99](https://www.itu.int/md/R00-SG01-CIR-0099/en) of 16 December 2016. The files containing twenty-eight responses from the ITU Member States are attached to [Doc. 1B/148](https://www.itu.int/md/R15-WP1B-C-0148/en) from the Director of the BR and were also uploaded on the CG Share Point Site at:  
<https://extranet.itu.int/rsg-meetings/sg1/wp1b/cg-q-9-1-7/default.aspx>.

WP 1C, in reply to a liaison statement from WP 1B, came to the conclusion that, in the absence of reported cases of interference, there are no spectrum monitoring techniques and methods to identify emissions and locations of unauthorised earth station terminals in FSS frequency bands. In cases when FSS network operators identify unauthorised use of their satellites and report to the relevant radio monitoring service, geolocation methods are available to determine the location of a transmitter (Document [1B/190](https://www.itu.int/md/R15-WP1B-C-0190/en)).

The Second Session of the Conference Preparatory Meeting for WRC-19 (CPM19-2) was held from 18 to 28 February 2019 in Geneva. CPM19-2 approved the CPM text on WRC-19 agenda item 9.1, issue 9.1.7 (see Document [R15-CPM19.02-R-0001](https://www.itu.int/md/R15-CPM19.02-R-0001/en)).

With respect to *Issue 2a*) in the Annex of Resolution **958 (WRC-15)**, two options have been identified:

– Option 1: no change to the Radio Regulations as current measures are sufficient. The Radio Regulations, specifically the provisions of Article **18**, contain a clear and unambiguous requirement to operate an earth station only if duly authorized. New provisions in the Radio Regulations will not help address unlawfully operated earth stations.

– Option 2: to develop a new WRC Resolution to assist administrations with the application of RR No. **18.1**.

With respect to *Issue 2b)* in the Annex of Resolution 958 (WRC-15), one option has been identified:

– to provide necessary guidelines on satellite monitoring capabilities, along with possible revision and/or further development of ITU-R Reports or Handbooks to assist administrations with managing unauthorized operation of earth stations deployed within their territory, as a tool to guide their national spectrum management.

Proposals

NOC CHN/28A21A7/1

ARTICLES

**Reasons:** The current provisions of RR Article **18** are sufficient for addressing the issue of unauthorized uplink transmissions of earth stations.

RESOLUTION 958 (WRC-15)

Urgent studies required in preparation for the  
2019 World Radiocommunication Conference

MOD CHN/28A21A7/2

ANNEX TO RESOLUTION 958 (WRC-15)

Urgent studies required in preparation for the   
2019 World Radiocommunication Conference

1) Studies concerning Wireless Power Transmission (WPT) for electric vehicles:

a) to assess the impact of WPT for electric vehicles on radiocommunication services;

b) to study suitable harmonized frequency ranges which would minimize the impact on radiocommunication services from WPT for electrical vehicles.

These studies should take into account that the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO) and the Society of Automotive Engineers (SAE) are in the process of approving standards intended for global and regional harmonization of WPT technologies for electric vehicles.

3) Studies on the technical and operational aspects of radio networks and systems, as well as spectrum needed, including possible harmonized use of spectrum to support the implementation of narrowband and broadband machine-type communication infrastructures, in order to develop Recommendations, Reports and/or Handbooks, as appropriate, and to take appropriate actions within the ITU Radiocommunication Sector (ITU-R) scope of work.

**Reasons:** The item 2) in Annex to Resolution **958 (WRC-15)** is no longer necessary after WRC‑19.

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Issue 2b) in Annex to Resolution 958 (WRC-15)

To provide necessary guidelines on satellite monitoring capabilities, along with possible revision and/or further development of ITU-R Reports or Handbooks to assist administrations with managing unauthorized operation of earth stations deployed within their territory, as a tool to guide their national spectrum management.

**Reasons:** The possible revision and/or further development of ITU-R Reports or Handbooks should be considered, such as Report ITU-R SM.2424-0, so as to provide guidance and support for administrations in managing the unauthorized operation of earth stations deployed within their territory.

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