



## Radiocommunication Bureau (BR)

Administrative Circular  
**CACE/782**

2 September 2016

**To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates participating in the work of the Radiocommunication Study Group 1 and ITU Academia**

**Subject: Radiocommunication Study Group 1 (Spectrum Management)**  
**– Approval of 1 new ITU-R Question**

By Administrative Circular CACE/775 of 24 June 2016, 1 draft new ITU-R Question was submitted for approval by correspondence in accordance with Resolution ITU-R 1-7 (§ A2.5.2.3).

The conditions governing this procedure were met on 24 August 2016.

The text of the approved Question is attached for your reference in the Annex to this letter and will be published by the ITU.

A handwritten signature in black ink, appearing to read 'FRANCIS RANCY'.

François Rancy  
Director

### **Annex: 1**

#### **Distribution:**

- Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 1
- ITU-R Associates participating in the work of Radiocommunication Study Group 1
- ITU Academia
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

## Annex

### QUESTION ITU-R 239/1\*

#### **Electromagnetic field measurements to assess human exposure**

The ITU Radiocommunication Assembly,

*considering*

- a)* ITU Plenipotentiary Resolution 176 ([Rev. Busan, 2014](#)) on “Human exposure to and measurement of electromagnetic fields”;
- b)* ITU WTDC-14 [Resolution 62](#) (Rev. Dubai, 2014) on “Measurement concerns related to human exposure to electromagnetic fields”;
- c)* ITU WTSA-12 [Resolution 72](#) (Johannesburg, 2008; Dubai, 2012) on “Measurement concerns related to human exposure to electromagnetic fields”;
- d)* ITU-T Study Group 5 (Environment and Climate Change) Question [7/5](#) on “Human exposure to electromagnetic fields (EMFs) due to radio systems and mobile equipment”;
- e)* the ITU [Handbook on Spectrum Monitoring](#) (Edition 2011), section 5.6 on “Non-ionizing radiation measurements”;

*noting*

- a)* that Electromagnetic Field (EMF) exposure limits are implemented at a national level;
- b)* that the exposure limits are different for the general public and workers accessing areas close to wireless installations;
- c)* that the ITU and the World Health Organization encourage Member States to adopt the EMF exposure guidelines developed by the International Commission for Non-Ionizing Radiation Protection (ICNIRP);
- d)* that compliance with EMF limits should be assessed;
- e)* that power density and field strength are aggregated from different sources;
- f)* that exposure levels in the close proximity of wireless installations may occur in the near-field;
- g)* that there may be a need to measure exposure levels in the main beam;

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\* This Question should be brought to the attention of ITU-T Study Group 5 and ITU-D Study Group 2.

- h) that there may be a need for separate measurements of both the E and the H fields, especially when in the near-field domain, which behaves differently to the far field;
- i) that wireless installations may not transmit with their maximum power at the time of measurement;
- j) that the results of the measurements may be presented in a variety of formats with reference to the intended use and potential audience;
- k) the work already covered by existing ITU-T K-series Recommendations or IEC 62232 or IEC 62311,

*noting further*

- a) the proliferation of wireless installations of all types around the world;
- b) that compliance of portable wireless devices intended for use close to the head or body is outside the scope of this question,

*decides* that the following Questions should be studied

- 1 What are the measurements techniques to assess the human exposure from wireless installations of all types?
- 2 How can measurement results be presented?

*further decides*

- 1 that the results of the above studies shall be included in (a) Recommendation(s) and/or (a) Report(s);
- 2 that the above studies should be completed by 2018.

Category: