



Radiocommunication Bureau

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Administrative Circular
CACE/436

26 October 2007

**To Administrations of Member States of the ITU and Radiocommunication Sector Members
participating in the work of the Radiocommunication Study Groups and the
Special Committee on Regulatory/Procedural Matters**

Subject: Radiocommunication Study Group 1
– **Approval of 3 revised ITU-R Questions**

By Administrative Circular CAR/245 of 12 July 2007, 3 draft revised ITU-R Questions were submitted for approval by correspondence in accordance with Resolution ITU-R 1-4 (§ 3.4).

The conditions governing these procedures were met on 12 October 2007.

The texts of the approved Questions are attached for your reference (Annexes 1 to 3) and will be published in Addendum 5 to Document 1/1 which contains the ITU-R Questions approved by the 2003 Radiocommunication Assembly and assigned to Radiocommunication Study Group 1.

Valery Timofeev
Director, Radiocommunication Bureau

Annexes: 3

Distribution:

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

Annex 1

QUESTION ITU-R 210-2/1*

Power transmission via radio frequency beam

(1997-2006-2007)

The ITU Radiocommunication Assembly,

considering

- a) that technology is under development to transfer power efficiently from one location to another via radio frequency beams;
- b) that such power transmission via radio frequency beam (PTRFB) may be useful in some applications including solar power, airborne platforms and lunar stations;
- c) that no frequency bands have been specifically associated with PTRFB;
- d) that the use of PTRFB may have a significant impact on the operation of radiocommunication services including the radio astronomy service;
- e) that issues of non-ionizing radiation exposure related to systems employing PTRFB will be dealt with by such organizations as the World Health Organization (WHO) and the International Radiation Protection Association (IRPA)/International Commission on Non-ionizing Radiation Protection (ICNIRP),

decides that the following information be gathered

- 1 What applications have been developed for use of PTRFB?
- 2 What are the technical characteristics of the radiation employed in or incidental to applications using PTRFB?

decides that the following Question should be studied

- 1 Under what category of spectrum use should administrations consider PTRFB: ISM, or other?
- 2 What radio frequency bands are most suitable for PTRFB?
- 3 What steps are required to ensure that radiocommunication services, including the radio astronomy service, are protected from PTRFB operations?

further decides

- 1 that the results of the above studies should be included in Report or Recommendation, as appropriate;
- 2 that the above studies should be completed by 2012 at the latest.

Category: S3

* This Question should be brought to the attention of the International Maritime Organization (IMO), the International Civil Aviation Organization (ICAO), the International Electrotechnical Commission (IEC), the International Special Committee on Radio Interference (CISPR), the Inter-Union Commission on Allocation of Frequencies for Radio Astronomy and Space Science (IUCAF) and Radiocommunication Study Group 3.

Annex 2

QUESTION ITU-R 218-1/1

Techniques for measurement of radiation from high data rate telecommunication systems using wired electrical power supply

(2000-2007)

The ITU Radiocommunication Assembly,

considering

- a) that electricity power supply continues to be used for low data rate telemetry or control purposes in LF bands;
- b) that electricity power supply is generally not designed or installed in such a way that radio frequency (RF) radiation will be minimised;
- c) that new telecommunication systems are being designed which will operate with data rates exceeding 1 Mb/s, with carrier frequencies in the HF band;
- d) that any radiation from such systems may affect the use of radiocommunication systems, particularly at LF, MF, HF and VHF,

decides that the following Question shall be studied

1 What techniques are appropriate for the measurement of radiation from telecommunication systems utilising wired electrical power supply ?

further decides

- 1** that the results of the above studies should be included in a Recommendation or a Report;
- 2** that the above studies should be completed by 2010.

NOTE 1 – See also Question ITU-R 221-1/1.

Category: S2

Annex 3

QUESTION ITU-R 221-1/1

Compatibility between radiocommunication systems and high data rate telecommunication systems using wired electrical power supply

(2000-2007)

The ITU Radiocommunication Assembly,

considering

- a) that electricity power supply continues to be used for low data rate telemetry or control purposes in LF bands;
- b) that electricity power supply is generally not designed or installed in such a way that RF radiation will be minimised;
- c) that new telecommunication systems are being designed which will operate with data rates exceeding 1 Mb/s, with carrier frequencies in the HF band;
- d) that any radiation from such systems may affect the use of radiocommunication systems, particularly at LF, MF, HF and VHF,

decides that the following Question shall be studied

- 1** What are the acceptable levels of radiation from telecommunication systems utilising wired electrical power supply so as not to impair the performance of radiocommunication systems?

further decides

- 1** that the results of the above studies should be included in a Recommendation or a Report;
- 2** that the studies should be completed by 2010.

NOTE 1 – See also Question ITU-R 218-1/1.

Category: S2
