



*Radiocommunication Bureau*

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**Administrative Circular  
CAR/317**

23 June 2011

**To Administrations of Member States of the ITU**

**Subject: Radiocommunication Study Group 1 (Spectrum management)**

- **Proposed approval of 1 draft new ITU-R Question and 1 draft revised ITU-R Question**
- **Proposed suppression of 5 ITU-R Questions**

At the meeting of Radiocommunication Study Group 1 held on 2 June 2011, 1 draft new ITU-R Question and 1 draft revised ITU-R Question were adopted and it was agreed to apply the procedure of Resolution ITU-R 1-5 (see § 3.4) for approval of Questions in the interval between Radiocommunication Assemblies. Furthermore, the Study Group proposed the suppression of 5 ITU-R Questions in accordance with Resolution ITU-R 1-5 (§ 3.7).

Having regard to the provisions of § 3.4 of Resolution ITU-R 1-5, you are requested to inform the Secretariat ([brsgd@itu.int](mailto:brsgd@itu.int)) by 23 September 2011, whether your Administration approves or does not approve the proposals above.

After the above-mentioned deadline, the results of this consultation will be notified in an Administrative Circular. If the Questions are approved, they will have the same status as Questions approved at a Radiocommunication Assembly and will become official texts attributed to Radiocommunication Study Group 1 (see: <http://www.itu.int/pub/R-QUE-SG01/en>).

François Rancy  
Director, Radiocommunication Bureau

**Annexes: 3**

- 1 draft new ITU-R Question and 1 draft revised ITU-R Question
- Proposed suppression of 5 ITU-R Questions

**Distribution:**

- Administrations of Member States of the ITU
- 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-R Academia

## **Annex 1**

(Source: Document 1/156(edited))

### **DRAFT NEW QUESTION ITU-R [PWRGRD]/1<sup>1</sup>**

#### **Impact on radiocommunication systems from wireless and wired data transmission technologies used for the support of power grid management systems<sup>2</sup>**

The ITU Radiocommunication Assembly,

*considering*

- a) that there is increasing demand for and use of power grid and power usage management and sensing for efficiency, reliability and economic purposes;
  - b) that data transmission capability is an essential element of power grid management systems;
  - c) that the physical design, data rate, bandwidth and frequency requirements for such data transmission capability may vary according to the physical design and operational requirements of the power grid;
  - d) that such data transmission capability may be satisfied by telecommunication systems, including Power Line Telecommunication (PLT) systems;
  - e) that radiation from such wireless or wired communication systems may cause interference to radiocommunication services;
  - f) that power grid management systems may deploy remote sensors on a widespread basis,
- decides* that the following Questions should be studied

**1** What are the technical and operating features and the characteristics of wireless technologies and devices in support of power grid management systems?

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<sup>1</sup> This Question should be brought to the attention of ITU-R Study Groups 4, 5, 6 and 7 and ITU-T Study Group 15.

<sup>2</sup> The “power grid” in this case is the electricity distribution network that delivers electricity to individual customers in local areas. Power grid management systems are high-capacity, two-way communications networks with embedded sensing that are installed on existing electric distribution networks to transform them into interactive, automated, self-healing smart grids. These grids are managed by monitoring and controlling network elements.

**2** What are the data rates, bandwidths, frequency bands and spectrum requirements needed in support of power grid management systems?

**3** What are the interference considerations to radiocommunications associated with the implementation of wireless and wired technologies and devices used in support of power grid management systems?

**4** How will spectrum availability be affected by interference associated with widespread deployment of such technologies and devices?

*further decides*

**1** that the results of the above studies should be included in Recommendations(s) and/or Report(s);

**2** that the above studies should be completed by 2016.

Category: S3

## Annex 2

(Source: Document 1/164(edited))

### DRAFT REVISION OF QUESTION ITU-R 233/1\*

#### **Measurement of spectrum occupancy**

(2007)

The ITU Radiocommunication Assembly,

*considering*

- a) that frequency management is providing theoretical values, retrieved from planning software regarding field strength values, produced by users of the frequency spectrum;
- b) that monitoring services are tasked to measure the frequency spectrum and compare those values with the theoretical values from the frequency management;
- c) that different types of occupancy measurements are performed worldwide and that it is often difficult to compare the results of those different methods,

*decides* that the following Questions should be studied

- 1 What techniques could be used to perform frequency channel occupancy measurements, including processing and presentation methods?
- 2 What techniques could be used to perform frequency band occupancy measurements, including processing and presentation methods?
- 3 How can “occupancy” defined for both, frequency channel as well as for frequency band measurements, also taking into account, the size of the used filter and the values measured in adjacent channels?
- 4 How can threshold levels be defined and applied in practical situations including dynamic threshold levels?

*further decides*

- 1 that the above studies should be included in Recommendation(s) and/or Report(s);
- 2 that the above studies should be completed by ~~2014~~2015.

Category: ~~S2S3~~

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\* ~~In the year 2009, Radiocommunication Study Group 1 extended the completion date of studies for this Question.~~

### **Annex 3**

(Source: Documents 1/158 and 173(Rev.1))

#### **Questions proposed for suppression**

<b>Question ITU-R</b>	<b>Title</b>	<b>Category</b>	<b>Date of last approval</b>
206/1	Strategies for economic approaches to national spectrum management and their financing	S2	1995
209-1/1	Parameters of radio systems and equipment required for spectrum management and the efficient use of the radio spectrum	S2	2004
218-1/1	Techniques for measurement of radiation from high data rate telecommunication systems using wired electrical power supply	S2	2007
230/1	Improved measurement methods for unwanted emissions of primary radars using magnetrons	S2	2004
234/1	Alternative techniques for radiolocation determination	S2	2007

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