INTERNATIONAL TELECOMMUNICATION UNION

Radiocommunication Bureau
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Administrative Circular
CACE/590

30 October 2012

To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates participating in the work of the Radiocommunication Study Group 7 and ITU-R Academia

Subject: **Radiocommunication Study Group 7 (Science services)**

– **Approval of 1 new ITU-R Question**

– **Suppression of 3 ITU-R Questions**

By Administrative Circular CACE/582 of 17 August 2012, 1 draft new ITU-R Question was submitted for approval by correspondence in accordance with Resolution ITU-R 1-6 (§ 3.1.2). In addition, the Study Group proposed the suppression of 3 ITU-R Questions.

The conditions governing this procedure were met on 17 October 2012.

The text of the approved Question is attached for your reference (Annex 1) and will be published in Revision 1 to Document 7/1 which contains the ITU-R Questions approved by the 2012 Radiocommunication Assembly and assigned to Radiocommunication Study Group 7.
The suppressed ITU-R Questions are indicated in Annex 2.

François Rancy
Director, Radiocommunication Bureau

Annexes: 2

Distribution:

- Administrations of Member States and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 7
- ITU-R Associates participating in the work of Radiocommunication Study Group 7
- ITU-R Academia
- 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
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

Annex 1

QUESTION ITU-R 254/7

Characteristics and spectrum requirements of satellite systems using nano and pico satellites

(2012)

The ITU Radiocommunication Assembly,

considering

a) that nano and pico satellites, commonly described as ranging in mass from 0.1 to 10 kg and measuring less than 0.5 m in any linear dimension excluding deployable antennas and booms, have physical characteristics that differ from those of larger satellites;

b) that as with any space station operations, it is important to ensure that operations are under positive control for purposes of avoiding interference, for purposes of any necessary collision avoidance operations, and for purposes of successful mission execution;

c) that such satellites are used increasingly, particularly in low Earth orbit, in studies of the Earth, the Earth's atmosphere, the near Earth space environment, other fields of science, educational activities and many other applications;

d) that for some activities, it may be desirable to make simultaneous use of several nano and pico satellites forming a satellite system;

e) that to date many of these nano and pico satellites have used spectrum allocated to the meteorological-satellite or the amateur-satellite service;

f) that nano and pico satellites for scientific applications may use bands that are allocated to the science services, consistent with those allocations,

decides that the following Questions should be studied

1 What are the distinctive characteristics of nano and pico satellites and satellite systems in terms of their use of the radio spectrum as defined by data rates, transmissions time and bandwidths?

2 Taking into account such distinctive characteristics, what are the spectrum requirements for nano and pico satellite systems?

3 Under which radiocommunication services can satellite systems using nano and pico satellites operate?

further decides

1 that the results of the above studies should be included in one or more Recommendation(s) and/or Report(s);

2 that the above studies should be completed by 2015.

Category: C2

Annex 2

Suppressed ITU-R Questions

Question ITU-R	Title
232-1/7	Frequency sharing between spaceborne passive sensors and other services in the bands 10.60-10.68 GHz, 31.5-31.8 GHz and 36-37 GHz
235-1/7	Technical and operational characteristics of applications of science services operating above 275 GHz
243/7	Characterization of technical parameters and interference effects and possible interference mitigation techniques for passive sensors operating in the Earth exploration-satellite service (passive)