INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION DEVELOPMENT BUREAU

ITU-D STUDY GROUPS

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FIRST MEETING OF STUDY GROUP 1: GENEVA, 10 - 12 SEPTEMBER 1998
FIRST MEETING OF STUDY GROUP 2: GENEVA, 7 - 9 SEPTEMBER 1998

Question 9/2: Identify study group Questions in the ITU-T and ITU-R Sectors which are of particular interest to developing countries and systematically, by way of annual progress reports, inform them of the progress of work on the Questions to facilitate their contributions to the work on those Questions as well as, ultimately, to benefit from their outputs in a timely manner

STUDY GROUP 2

SOURCE: ITU-R STUDY GROUP 9

TITLE: LIAISON STATEMENT TO THE TELECOMMUNICATION DEVELOPMENT BUREAU (BDT) AND ITU-D STUDY GROUP 2

The following Questions are brought to the attention of ITU-D Study Group 2.

Title	Rec No.	Attention of
Development of an annex to Recommendation ITU-R F.1247 to facilitate its application in planning and design of new systems in the fixed service in the bands 2 025 - 2 110 MHz and 2 200 - 2 290 MHz	215/9	- ITU-R SG 7 (Working Party 7B) - ITU-D SG 2
Sharing criteria for stratospheric high density systems in the fixed service using the same frequency bands with systems in the fixed-satellite service	218/9	ITU-D SG 2

QUESTION ITU-R 215/9*

DEVELOPMENT OF AN ANNEX TO RECOMMENDATION ITU-R F.1247 TO FACILITATE ITS APPLICATION IN PLANNING AND DESIGN OF NEW SYSTEMS IN THE FIXED SERVICE IN THE BANDS 2 025 - 2 110 MHz AND 2 200 - 2 290 MHz

(1997)

The ITU Radiocommunication Assembly,

considering

a) that Recommendation ITU-R F.1247 was developed in order to establish various technical and operational characteristics of systems in the fixed service operating in the bands 2 025 - 2 110 MHz and 2 200 - 2 290 MHz, which are required for protecting space stations in the space science services, *inter alia*, data relay satellites at certain orbital locations in the geostationary-satellite orbit;

b) that the various technical and operational characteristics established in the above Recommendation are somewhat complex in order to protect sensitive data relay satellites;

c) that it is necessary to develop appropriate text which may be annexed in the referred Recommendation to propose a concise methodology which could be followed in the planning phase of new systems in the fixed service;

d) that this annex is also required for telecommunication operating agencies who wish to possess a procedure necessary to ensure that the design of planned new systems in the fixed service have been carried out properly in accordance with the appropriate ITU-R performance Recommendations;

e) that this annex will be useful for many administrations, *inter alia* developing countries,

decides that the following Question should be studied

1 What is the recommended methodology for application of Recommendation ITU-R F.1247 in the planning and design phases of the new systems in the fixed service operating in the bands 2 025 - 2 110 and 2 200 - 2 290 MHz?

NOTE 1 – This new annex should give a concise and precise methodology (including flow-charts and possibly computer programs) for the application of the subject Recommendation, with regard to both § c) and d).

NOTE 2 – The annex, when completed, should be added as a new annex to the subject Recommendation in cooperation with Radiocommunication Study Group 7.

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* This Question should be brought to the attention of Radiocommunication Study Group 7 (Working Party 7B) and Telecommunication Development Study Group 2.

QUESTION ITU-R 218/9*

SHARING CRITERIA FOR STRATOSPHERIC HIGH DENSITY SYSTEMS IN THE FIXED SERVICE USING THE SAME FREQUENCY BANDS WITH SYSTEMS IN THE FIXED-SATELLITE SERVICE

(1997)

The ITU Radiocommunication Assembly,

considering

a) that new technology utilizing telecommunication stations located at fixed points in the stratosphere is being developed;

b) that systems utilizing one or more stations located at fixed points in the stratosphere may possess desirable attributes for high-speed broadband digital communications with extensive frequency reuse;

c) that such systems would be able to provide coverage to high density metropolitan regions or neighbouring countries with high elevation angles and short path lengths, and to outlying rural areas with low elevation angles but without reducing capacity;

d) that broadband digital services provided by such stratospheric high density systems in the fixed service are intended to provide ubiquitous consumer-oriented communications information infrastructures;

e) that stratospheric systems in the fixed service (FS) may be deployed in bands shared with the fixed-satellite service (FSS);

f) that it is necessary to study sharing criteria between stratospheric systems in the FS and systems in the FSS, particularly taking into account the full range of elevation angles used by such systems,

decides that the following Question should be studied

1 What are the preferred sharing criteria for interference between stratospheric systems in the FS and systems in the FSS using the same frequency bands?

2 What is the nature of interference to be considered and what are the interference calculation methods needed to analyse the potential interference between systems in the FSS and stratospheric systems in the FS using the same frequency bands?

3 How should attenuation by atmospheric gases be taken into account in interference assessment?

4 What are the suitable frequency bands for sharing between stratospheric systems in the FS with systems in the FSS?

NOTE 1 – This Question is complementary and related to Question ITU-R 251/4.

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* This Question should be brought to the attention of Telecommunication Development Study Group 2.