

# ITU-R SG4 회의 기고서

INTERNATIONAL TELECOMMUNICATION UNION

RADIOCOMMUNICATION  
STUDY GROUPS

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**Subject : Question 39/4 and 141/9**

## KOREA (REPUBLIC OF)

PROPOSED AMENDMENTS TO PRELIMINARY DRAFT NEW RECOMMENDATION

TECHNICAL CRITERIA TO BE USED IN EXAMINATIONS RELATING TO THE  
PROBABILITY OF HARMFUL INTERFERENCE BETWEEN NETWORKS IN THE  
FIXED SERVICE AND THE FIXED SATELLITE SERVICE AS REQUIRED IN NOS.  
1354, 1509 AND 1544 OF THE RADIO REGULATIONS

## 1. Introduction

At the meeting of ITU-R SG 4-9S at Zeneva in 1993, Preliminary Draft New Recommendation (Doc.4-9S/TEMP/29) has been prepared, which defines the harmful interference criteria to be used in examinations under provisions RR 1354, 1509 and 1544 of the Radio Regulations.

The Administration of Korea scrutinized that Recommendation, and wishes to propose the amendments represented in the following.

## 2. Proposed Amendments and Comments

(1) Recommendations 356, 357, 558 and 615 explain the allowable interference criteria, not show the evaluation methods of interference criteria. Therefore, it is proposed that Recommends 1.2 be modified as shown in ANNEX 1.

(2) ITU-R SG 4/WG 4A discussed about the harmful interference between networks in the fixed satellite services and refined the Preliminary Draft New Recommendation with Doc. 4A/TEMP/163 (Rev.2). Based on the discussion done by WG 4A at the Zeneva meeting in 1993, it is also proposed that Recommends 1.1 and Notes 1, 2 and 3 be changed as shown in ANNEX 1.

### ANNEX 1

#### PRELIMINARY DRAFT NEW RECOMMENDATION\*

#### TECHNICAL CRITERIA TO BE USED IN EXAMINATIONS RELATING TO THE PROBABILITY OF HARMFUL INTERFERENCE BETWEEN [NETWORKS IN] THE FIXED SERVICE AND THE FIXED SATELLITE SERVICE AS REQUIRED IN NOS. 1354, 1509 AND 1544 OF THE RADIO REGULATIONS

(Question ITU-R 39/4 and 141/9)

[The ITU Radiocommunication Assembly],

considering

a) that the Radio Regulations (RR) 1354, 1509 and 1544 call for examinations by the Radiocommunication Bureau with respect to the probability of harmful interference between frequency assignments in the fixed and the fixed satellite services;

b) that to carry out such examinations guidance is needed to assist in the application of this regulation;

\*This Recommendation should be brought to the attention of SGs 1, 7, 8, 10 and 11.

The Director may also wish to bring this Recommendation to the attention of future WRC.

c) that this is essential to seek to prevent harmful interference from occurring in actual operation even though the examinations are carried out prior to frequency assignments being brought into use;

d) that to coordinate frequency assignments administrations may use criteria of maximum allowable values of interference\*\* which, when satisfied by calculation prior to the frequency assignments being brought into use, ensure compatibility with relevant requirements for quality of service, availability and performance;

e) that an examination pursuant to the provision of RR 1354, 1509 or 1544 should rely on measures, agreements and other factors that have, during coordination, been identified by the administrations as conducive reducing interference and have been communicated to the Radiocommunications Bureau;

f) that while attempting to coordinate frequency assignments administrations may agree to use criteria of accepted interference, as defined in RR 162, that would allow more severe interference than the maximum allowable values of interference to be tolerated yet still ensure compatibility as under d)above;

g) that on the one hand the RB needs a means of quantifying the interference level in cases where a finding is required in accordance with 1354, 1509 and 1544, but on the other hand the term HARMFUL INTERFERENCE is used elsewhere in the Radio Regulations in contexts in which quantification is not appropriate.]

## recommends

### 1.that in examinations pursuant RR 1354, 1509 and 1544:

1.1 where appropriate, the probability of harmful interference should be considered to be negligible if calculation shows that the applicable criteria of accepted interference as provided by administrations [for a particular coordination exercise between the two networks of concern] are satisfied;

1.2 in the absence of information agreed by administrations regarding accepted interference, the probability of harmful interference should be [considered to be negligible if it is found that the interference is less than the single entry interference limits set forth in Recommendations\* 356, 357, 558 and 615 (whichever is appropriate);]

\*\*This can be taken to be permissible interference as defined in RR 161.

\* As additional Recommendations for interference criteria are developed they should be added.

2. that the following [Notes] should be part of this Recommendation;

Note 1-[Recommendation 766 can be used by the RB to assist in evaluating whether or not recommends 1.1 and/or 1.2 are met.]

Note 2-[On a case by case basis, particularly, in those situations where as a result of the RB examination, the calculated results are greater than the appropriate levels in recommend 1.1 and 1.2,] [administrations] are urged to provide the RB [,on request,] with [any additional information which could assist its examination.]

Note 3-[It should be assumed that the interference exceeding the single entry permissible interference levels would result in harmful interference.]

INTERNATIONAL TELECOMMUNICATION UNION

RADIOCOMMUNICATION  
STUDY GROUPS

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## **KOREA (REPUBLIC OF)**

PROPOSED AMENDMENTS TO PRELIMINARY DRAFT NEW RECOMMENDATION

TECHNICAL CRITERIA TO BE USED IN EXAMINATIONS RELATING TO THE  
PROBABILITY OF HARMFUL INTERFERENCE BETWEEN NETWORKS IN THE  
FIXED SATELLITE SERVICE AS REQUIRED IN NO. 1506 OF  
THE RADIO REGULATIONS

### **1. Introduction**

At the meeting of ITU-R WG 4A at Zeneva in 1993, Preliminary Draft New Recommendation (Doc.4A/TEMP/163(Rev.2)) has been prepared, which defines the harmful interference criteria to be used in examinations under provisions RR 1506 of the Radio Regulations.

The Administration of Korea scrutinized that Recommendation, and wishes to propose the amendments represented in the following.

### **2. Proposed Amendments and Comments**

(1) Even though the calculation results done by RB show that the interference is less than the single entry interference limits set forth in the Recommendations 466, 483, 523, 672 and 735, the fact that the probability of harmful interference could be considered to be negligible can be supported by the agreements among the administrations at the appropriate ITU meetings. Therefore, it is proposed that recommends 1.2 be modified as shown in ANNEX 1.

## ANNEX 1

### PRELIMINARY DRAFT NEW RECOMMENDATION \*

#### TECHNICAL CRITERIA TO BE USED IN EXAMINATIONS RELATING TO THE PROBABILITY OF HARMFUL INTERFERENCE BETWEEN [NETWORKS IN] THE FIXED SERVICE AND THE FIXED SATELLITE SERVICE AS REQUIRED IN NOS. 1354, 1509 AND 1544 OF THE RADIO REGULATIONS

(Question ITU-R 39/4 and 141/9)

[The ITU Radiocommunication Assembly],

considering

a) that the Radio Regulations (RR) 1354, 1509 and 1544 call for examinations by the Radiocommunication Bureau with respect to the probability of harmful interference between frequency assignments in the fixed and the fixed satellite services;

b) that to carry out such examinations guidance is needed to assist in the application of this regulation;

c) that this is essential to seek to prevent harmful interference from occurring in actual operation even though the examinations are carried out prior to frequency assignments being brought into use;

d) that to coordinate frequency assignments administrations may use criteria of maximum allowable values of interference\*\* which, when satisfied by calculation prior to the frequency assignments being brought into use, ensure compatibility with relevant requirements for quality of service, availability and performance;

e) that an examination pursuant to the provision of RR 1354, 1509 or 1544 should rely on measures, agreements and other factors that have, during coordination, been identified by the administrations as conducive reducing interference and have been communicated to the Radiocommunications Bureau;

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\*This Recommendation should be brought to the attention of SGs 1, 7, 8, 10 and 11.

The Director may also wish to bring this Recommendation to the attention of future WRC.

\*\*This can be taken to be permissible interference as defined in RR 161.

f) that while attempting to coordinate frequency assignments administrations may agree to use criteria of accepted interference, as defined in RR 162, that would allow more severe interference than the maximum allowable values of interference to be tolerated yet still ensure compatibility as under d) above;

[g) that on the one hand the RB needs a means of quantifying the interference level in cases where a finding is required in accordance with 1354, 1509 and 1544, but on the other hand the term HARMFUL INTERFERENCE is used elsewhere in the Radio Regulations in contexts in contexts in which quantification is not appropriate.]

recommends

1. that in examinations pursuant to RR 1506 :

1.1 where appropriate, the probability of harmful interference should be considered to be negligible if calculation shows that the applicable criteria of accepted interference as provided by administrations for a particular coordination exercise between the two networks of concern are satisfied :

1.2 in the absence of information agreed by administrations regarding accepted interference, the probability of harmful interference would [be considered to] be negligible [if it is found] that the interference [is] less than the single entry interference limits set forth in Recommendations\* 466, 483, 523, 671 and 735 (whichever is appropriate).

2. that the following [Notes] should be part of this Recommendation;

Note 1-Recommendation 741 can be used by the RB to assist in evaluating whether or not recommends 1.1 and/or 1.2 are met.

Note 2-On a case by case basis, particularly, in those situations levels in recommends 1.1 and 1.2 administrations are urged to provide the RB, on request, with any additional information which could assist its examination.

Note 3-It should be assumed that the interference exceeding the single entry permissible interference levels would result in harmful interference.

\* As additional Recommendations for interference criteria are developed they should be added.