RECOMMENDATION ITU-R SM.575-1

Protection of fixed monitoring stations against interference

(Questions ITU-R 31/1 and ITU-R 32/1)

(1982-2007)

Scope

This Recommendation specifies maximum field-strength levels at monitoring stations to ensure their interference-free operation.

The ITU Radiocommunication Assembly,

considering

a) the benefits that accrue to an administration by operating fixed monitoring stations for domestic purposes as well as in the international monitoring system;

b) that optimum performance can be obtained from a monitoring station operating with a minimum of interference in the monitoring frequency range;

c) that the power radiated from nearby transmitters and other man-made radiating sources has to be taken into account in order to estimate interference level;

d) that it is essential to measure the field strength of discrete radio signals at the location of the planned monitoring station in order to ensure that it will not be disturbed by any transmission,

recommends

1 that administrations consider using the following field-strength criteria as values above which a case-by-case interference analysis should be made, when siting and operating fixed monitoring stations, to help keep them free from interference:

Fundamental frequency, *f*	**Field-strength standard (mV/m)**	**Root-sum-square values of more than one fundamental field strength (mV/m)**
9 kHz < *f* < 174 MHz	10	30
174 MHz < *f* < 960 MHz	50	150
960 MHz < *f* < 3 GHz	5	15

NOTE 1 – The root-sum-square field-strength value applies to multiple signals, but only when all are within the RF passband of the monitoring receiver.