

RECOMMENDATION ITU-R S.1065*

**Power flux-density values to facilitate the application
of RR Article 14 for the FSS in Region 2 in relation
to the BSS in the band 11.7-12.2 GHz**

(Question ITU-R 68-1/4)

(1994)

The ITU Radiocommunication Assembly,

considering

- a) that systems in the fixed-satellite service (FSS) and the broadcasting-satellite service (BSS) share the band 11.7-12.2 GHz;
- b) that the use of this band by the FSS is subject to prior agreement under the Radio Regulations (RR) Article 14 (edition of 1994) procedure with administrations whose BSS systems are considered to be affected;
- c) that the ITU has no criteria to determine whether a FSS network affects a BSS assignment in the application of RR Article 14 (edition of 1994) in the band 11.7-12.2 GHz;
- d) that it was never intended to introduce any power flux-density limits in this band due to the nature of the fixed-satellite services that are to be provided in this band in Region 2,

further considering

- e) that Annex 4 to RR Appendix S30 provides criteria for the need to coordinate FSS networks in Region 2 with respect to assignments in the Regions 1 and 3 BSS Plan in the band 11.7-12.2 GHz,

recommends

1 that in the frequency band 11.7-12.2 GHz, the values of power flux-density, produced by space stations in the FSS in Region 2 on the territory of an affected administration in Regions 1 or 3 having systems in the BSS, which would be used by the ITU and administrations provisionally to identify these administrations to facilitate the application of RR Article 14 (edition of 1994), should be:

-147	dB(W/m ²) in 27 MHz	for $0^\circ \leq \varphi < 0.44^\circ$
-138 + 25 log φ	dB(W/m ²) in 27 MHz	for $0.44^\circ \leq \varphi < 19.1^\circ$
-106	dB(W/m ²) in 27 MHz	for $\varphi \geq 19.1^\circ$

where φ is the difference (degrees) between the longitudes of the FSS satellite in Region 2 and the BSS satellite in Regions 1 or 3;

- 2** that the above values relate to power flux-density which would be obtained under free-space propagation conditions;
- 3** that the following Note should be regarded as part of the Recommendation:

NOTE 1 – The values in § 1 are intended to facilitate the application of RR Article 14 (edition of 1994) and are not intended as pfd limits. _____

* Radiocommunication Study Group 4 made editorial amendments to this Recommendation in 2001 in accordance with Resolution ITU-R 44 (RA-2000).