

RESOLUTION 554 (WRC-12)

Application of pfd masks to coordination under No. 9.7 for broadcasting-satellite service networks in the band 21.4-22 GHz in Regions 1 and 3

The World Radiocommunication Conference (Geneva, 2012),

considering

- a) that more precise criteria to apply No. 9.7 have the potential to reduce undue protection requirements for assignments in respect of incoming assignments in their vicinity;
- b) that reduction of undue protection requirements will facilitate coordination of submissions of new networks;
- c) that the use of pfd thresholds to identify coordination requirements will encourage use of more homogeneous technical parameters and support efficient spectrum usage,

resolves

1 that coordination of assignments for a broadcasting-satellite service (BSS) space station in Regions 1 and 3 in the 21.4-22 GHz band with respect to other BSS networks is not required if the pfd produced under assumed free space propagation conditions, does not exceed the threshold values shown below, anywhere within the service area of the potentially affected assignment:

-149.88	dB(W/(m ² · MHz))	for	0° ≤ θ < 0.6°
-153.2 + 9.3 θ ²	dB(W/(m ² · MHz))	for	0.6° ≤ θ < 1.05°
-143.5 + 27.2 log θ	dB(W/(m ² · MHz))	for	1.05° ≤ θ < 2.65°
-141.1 + 1.3 θ ²	dB(W/(m ² · MHz))	for	2.65° ≤ θ < 4.35°
-133.2 + 26.1 log θ	dB(W/(m ² · MHz))	for	4.35° ≤ θ < 12°
-105	dB(W/(m ² · MHz))	for	12° ≤ θ

where θ is the minimum nominal geocentric orbital separation, in degrees, between the wanted and interfering space stations, taking into account the respective East-West station-keeping accuracies;

2 that when the Bureau, under No. 11.32, conducts its examination of notifications of satellite networks in respect of compliance with the coordination procedures, it shall base its findings on the coordination requirements set by No. 9.7 in Table 5-1 of Appendix 5 as revised by WRC-12 for those networks received under No. 9.30 before 18 February 2012.