

UPDATES to the

Rules of Procedure

(Edition of 2017)

Approved by the Radio Regulations Board*

Revision (Circular No.)	Date	Part	AR/AP	RR No. or other reference	Pages to be removed	Pages to be inserted
1 See CR/424	November 2017	A1	AR11	11.14	4	4 (rev.1)
2 See CR/433	July 2018	A1	AR04	4.4	1-3	1(rev.2) - 3(rev.2)
		A1	Receivability ¹		1-2	1(rev.2) - 2bis(rev.2)
		A1	AR09 ²	9.11A-9.15	10	10(rev.2)
			AR09	9.27	21-24	21(rev.2) - 24(rev.2)
		A1	AR11	11.48	28	28(rev.2) - 28bis(rev.2)
		A1	AP30	5.2.2.2	15	15(rev.2)
			AP30A	5.2.2.2	12-13	12(rev.2) - 13(rev.2)
		A10	GE06	5.2.2	13-14	13(rev.2) - 15(rev.2)
	B3			3 6-10	3(rev.2) 6(rev.2) - 10bis(rev.2)	
		Table of content			1-2	1(rev.2) - 2(rev.2)
3 See CR/442	March 2019	A3	GE75		4	4(rev.3)

* The new Rules or modifications to the existing Rules of Procedure take effect immediately or as otherwise indicated.

¹ Effective date of application of the Rule: 1 August 2018.

² Effective date of application of the Rule: 1 January 2017.

An. 2

**Technical data used in the preparation of the Plan and to be used
in the application of the Agreement**

CHAPTER 1

Definitions

Low-power channel (LPC)

Channel used by medium frequency broadcasting stations employing a maximum e.m.r.p. of 1 kW (c.m.f. of 300 V) for analogue modulation or 0.22 kW (c.m.f. of 140 V) for digital modulation.

4.1

Chapter 4 of Annex 2 gives the broadcasting standards applicable to the Agreement. In particular:

4.1 *Class of emission:* The Plan is established for a system with double sideband amplitude modulation with full carrier (A3E).

4.2 *Power:* The power of a transmitter is the carrier power in the absence of modulation.

4.3 *Radiated power:* The radiated power is assumed to be the product of the nominal power of the transmitter and the gain of the antenna (relative to a short vertical antenna) without taking into account any losses¹. It is expressed either by the cymomotive force (c.m.f. in V or in dB relative to 300 V) or by the effective monopole radiated power (e.m.r.p. in kW or in dB relative to 1 kW).

4.4 *Protection ratios:* In applying the Agreement, the values of the co-channel and adjacent channel protection ratios given below should be used unless otherwise agreed between the administrations concerned. In the case of fluctuating wanted or unwanted signals, the values of the protection ratio apply for at least 50% of the nights of the year at midnight.

¹ Not reproduced here.

However, Resolution 8 of the Regional Administrative Conference (Regions 1 and 3) for drawing up frequency assignment plans for LF and MF broadcasting (Geneva, 1975) states:

“1 that broadcasting stations may provisionally use bandwidth saving modulation methods on condition that interference in the same or adjacent channels concerned does not exceed the interference resulting from the application of double sideband modulation with full carrier (A3E);

2 that any administration which envisages using these methods of emission shall seek the agreement of all affected administrations by following the procedure specified in Article 4 of the Agreement.”.

After consideration of the relevant ITU-R studies, the Board decided that an analogue modulated frequency assignment in the Plan may be notified to be recorded in the Master International Frequency Register (MIFR) with digital modulation (transmission system Digital Radio Mondiale², robustness mode³ A or B and spectrum occupancy type 2), provided the radiation is reduced by at least 6.6 dB in all directions, compared to the radiation of the analogue frequency assignment in the Plan.

The power of the transmitter to be notified in case of digital modulation shall be the total power within the necessary bandwidth.

The Board further decided that in the application of Article 4 of the Agreement the protection ratios between analogue and digital assignments (transmission system Digital Radio Mondiale, robustness mode A or B and spectrum occupancy type 2) and between digital and digital assignments in Part B Section B7 shall be used.

In order to enable the determination of the relevant protection ratios and the minimum value of field strength, according to Section B7, which are necessary for the identification of potentially affected administrations according to paragraph 3.2.5 of the GE75 Agreement, the Board also decided to introduce data items Modulation Scheme and Average Code Rate as mandatory for submission of Plan modification proposals concerning digital assignments using notice form T03.

This Rule of Procedure is of a provisional nature until such time that it is confirmed by a competent conference empowered to deal with the subject matter.

² The Digital Radio Mondiale system is described in Recommendation ITU-R BS.1514-2.

³ The DRM robustness modes and spectrum occupancy types are defined in ETSI Standard ES 201 980 "Digital Radio Mondiale (DRM); System Specification" Version 3.1.1 and further detailed in Recommendation ITU-R BS.1615-1