



Circular Letter  
CR/178

20 May 2002

**To Administrations of Member States of the ITU**

**Subject: Application of Article 12 of the Radio Regulations:**

- 1) Closing date for receipt of High Frequency Broadcasting schedules for the season **B02 (27 October 2002 – 30 March 2003)**
- 2) Replacing of old antenna codes (1-75)
- 3) Regional coordination meetings, 2002

To the Director General

Dear Sir / Madam

1. Closing date of receipt of HF broadcasting schedules for the season B02

1.1 In accordance with provision No. 12.31 of the Radio Regulations, I wish to inform you that the Radiocommunication Bureau has set **8 August 2002** as the closing date for the receipt of the HFBC schedules for the season B02.

1.2 In order to issue the Tentative Schedule and dispatch it to subscribers two months ahead of the implementation date (No. 12.34 of the Radio Regulations), administrations and authorized organisations are urged to send in their tentative schedules

**before the closing date and, if possible, before 19 July 2002.**

1.3 Requirements are to be submitted by administrations or authorized organizations, such as broadcasters. In the latter case, administrations that have not yet advised the Bureau, shall do so in writing, stating the names of the authorized organizations, their three-letter code for ease of identification and the scope of the authorizations (see 12.1); otherwise the requirements will not be accepted by the Bureau.

1.4 Submission of requirements must be **in electronic format only**. Broadcasting requirements can be submitted to the Bureau using a 3 ½" computer diskette or can be sent electronically to brmail@itu.int (Resolution 535 of WRC-97 refers.).

1.5 A common electronic format shall be used. A description of the fields to be submitted for a requirement and their specifications is given in Annex 2. The format of the electronic file of requirements is described in Annex 1.

1.6 The foreseen dates of dispatch to subscribers of the CD-ROMs containing the updated schedule are indicated in Annex 3 together with the dates by which updated schedules need to be received by the Bureau in order to be incorporated.

1.7 The Bureau wishes to emphasize that submission of requirements before the closing date is necessary in order to obtain a complete and accurate tentative schedule together with compatibility analysis for effective coordination process.

## 2. Replacing of old antenna codes (1-75)

2.1 The Bureau wishes to advise that as from the season A02, old antenna codes 1-75 are no longer valid and only new antenna codes 100-999 will be used. A list of all old antenna codes and their corresponding new codes is at Annex 4. The use of one common code system should facilitate coordination among administrations, broadcasters and other users of the HF spectrum.

## 3. Regional coordination meetings

3.1 The Bureau has been informed of an HFCC/ASBU and ABU-HFC B02 joint coordination meeting organized by HFCC/ASBU regional coordination group established in accordance with Article 12.11. The joint meeting will take place during 26 – 30 August 2002 in Bangkok, Thailand. Administrations are encouraged to participate in the meeting, which has proved effective in coordinating HFBC schedules among all HF users. For additional information please contact the Regional Coordination Groups (see Annex 5).

Yours faithfully,

Robert W. Jones  
Director  
Radiocommunication Bureau

## Annexes: 5

### Distribution:

- Administrations of Member States of the ITU
- Members of the Radio Regulations Board

**ANNEX 1**

**ELECTRONIC FORMAT OF THE TEXT FILE TO BE USED FOR NOTIFICATION OF HF BROADCASTING**

**Line 1**

Item	Format	Start col.	Stop col.	Range	Examples	Note
;	A1	1	1		;	
Season	A3	3	5	Ref. table season.txt	B02	
Notifying organization	A3	7	9	Ref. table admin.txt or Ref. table authoris.txt	AFS or SNT	Administration or Authorized organization
Date sent	A11	11	21	dd-MMM-yyyy format	19-JUL-2002	(in English)

**then, one line for each requirement:**

Item	Format	Start col.	Stop col.	Range	Examples	Note
Frequency/Band (kHz)	I5	1	5	Ref. table Rngfreq.txt	9895 or 6	Frequency in kHz or Band in MHz (6,7, etc.)
Start time (UTC)	I4	7	10	0000-2359	0125	
Stop time (UTC)	I4	12	15	0001-2400	0027	
Target Service Area	A30	17	46	1-85	27, 28SW, 18-20	Caution: Some CIRAF zones are not divided into quadrants: 1-5,17,19-26,67,69-75
Station code	A3	48	50	Ref. table Site.txt	SMG	
Power (kW)	I4	52	55	1-5000	250	Caution: for less than 1 kW use 1
Azimuth of Maxim. Radiation	I3	57	63	0 - 359	87	
Antenna Slew Angle	I3	65	67	>=-30, =< +30	-15	
Antenna Code	I3	69	71	Ref. table Antenna.txt	211	Caution: Old antenna codes 1-75 are no longer valid.
Days of operation	A7	73	79	1-7	56 or 1234567	Sunday=1
Start date	A6	81	86	>= Start date of the season	271002	(27 October 2002)
Stop date	A6	88	93	<= Stop date of the season	300303	(30 March 2003)
Modulation	A1	95	95	D=DSB, S=SSB -12, T=SSB -6 dB N=Digital.	D	
Antenna design frequency (kHz)	I5	97	101	2000-30000	7200	If blank or zero operating freq. is assumed
Language (o)	A10	103	112	Free format	English	
Administration Code	A3	114	116	Ref. table Admin.txt	USA	
Broadcaster Code(r)	A3	118	120	Ref. table Broadcas.txt	TWR	
Frequency Manager Organ. Code (r)	A3	122	124	Ref. table FMOrg.txt	FCC	If blank, identical to Administration code.
Identification (br)	I5	126	130			BR or coordination group generated.
Old data (br)	I1	132	132	1 if no info is received	1	BR generated, output file only.
Alternate. Frequency 1/ Alternate. Band 1 (o)	I5	134	138	Ref. table Rngfreq.txt	7150	Frequency in kHz or band in MHz (6,7, etc.)
Alternate. Frequency 2/ Alternate. Band 2 (o)	I5	140	144	Ref. table Rngfreq.txt	9	Frequency in kHz or band in MHz (6,7, etc.)
Alternate. Frequency	I5	146	150	Ref. table Rngfreq.txt	11	Frequency in kHz or

3/ Alternate. Band 3 (o)						band in MHz (6,7, etc.)
Notes (o)	A7	152	158			

- (r) Recommended
- (o) Optional
- (br) BR generated

## **ANNEX 2**

### **INPUT DATA TO BE SUBMITTED FOR A REQUIREMENT**

#### **Administration Code (3-character string)**

Mandatory, a three-letter administration code in accordance with the ITU's designation. An up-to-date reference list is included with the HFBC software package.

#### **Alternate Frequencies/Bands (5-digit integer)**

Optional. Up to three alternate frequencies/Bands can be notified. If notified, the Bureau will carry out necessary analysis to select the most suitable frequency amongst the indicated frequencies. For SSB operation, the nominal carrier frequency has to be notified.

#### **Antenna Code (up to 3-digit integer)**

Mandatory, a unique code representing transmitting antenna of specific technical parameters. A list including antenna codes and antenna definitions, based on ITU-R BS 705, is maintained by the Bureau. A new antenna code can be added upon request of administrations or organization authorized to notify. An up-to-date reference list is included with the HF software package.

For new antenna system, please use the code 991 and provide a complete description in a separate file.

Old antenna codes between 1 and 75 have been replaced by corresponding antenna codes in the range 100 to 999 (Annex 4).

#### **Antenna Design Frequency (up to 5-digit integer)**

Mandatory, design frequency will be in kHz, within the range between 2 000 kHz and 30 000 kHz. The use of symbol 0 or blank means that the antenna is designed for the operating frequency.

#### **Antenna slew angle (up to 2-digit integer)**

Antenna slew angle is the difference between the azimuth of maximum radiation and the physical orientation of the antenna. If a slewed antenna is in use, the slew angle must be notified. The value notified must be in the range -30 to 30. Default value is 0.

#### **Azimuth of maximum radiation (up to 3-digit integer)**

Mandatory. If the transmitting antenna is directional, the value for the azimuth of maximum radiation must be notified. This must be in the range 0 to 359 degrees (from True North). If the antenna is non-directional, 0 shall be notified.

#### **Broadcaster Code (3-character string)**

Recommended. An up-to-date reference list containing codes, names and contact information of broadcasting organizations is included with the HFBC software package.

**Days of operation (up to 7-character string)**

Mandatory. Each day is indicated by a number where 1 indicates Sunday and 7 indicates Saturday.

**Frequency/Band (5-digit integer)**

Mandatory. The frequency or Band on which this requirement is intended to operate. The value, expressed in kHz shall be an integer multiple of 5 kHz and within the frequency bands below. For SSB usage, the nominal carrier frequency is to be notified.

<b>Available Bands [kHz]</b>
5 950 - 6 200
7 100 - 7 300*
9 500 - 9 900
11 650 - 12 050
13 600 - 13 800
15 100 - 15 600
17 550 - 17 900
21 450 - 21 850
25 670 - 26 100

\* Regions 1 and 3 only

**Frequency Management Organization (3-character string)**

Recommended. An organization authorized by the Administration to carry out the planning of its broadcast requirements on its behalf.

**Language (10-character string)**

Optional. The field is included to facilitate identification of requirements that may be the sources of interference.

**Modulation (1-character string)**

Mandatory. D for DSB, S for SSB with 12 dB carrier reduction, T for SSB with 6 dB carrier reduction. Any other modulation system which is recommended by the ITU-R for use by HFBC shall be identified by a suitable letter code, to be determined by the Bureau when required.

**Notifying Organization (3-character string)**

Mandatory. An administration or an organization authorized by an administration to notify its broadcast requirements on its behalf. An up-to-date reference list is included with the HFBC software package.

**Site Code (3-character string)**

Mandatory. Unique code representing transmitting site.

A list including site code, site name, its geographical co-ordinates is maintained by the Bureau. A new site can be added upon request of administrations or authorized organizations to notify. An up-to-date reference list is included with the HFBC software package.

For new transmission sites, please use the codes SP1 to SP9, and provide the site name, geographical coordinates and proposed code(s) in a separate file.

**Start Date (6-character string)**

Mandatory. The start date may not be earlier than the start of the schedule period. The start date may not be the same as the stop date for a requirement.

**Start Time (4-digit integer)**

Mandatory. A valid start time for this requirement must be notified using the 24-hour UTC system. The value shall be between 0000 and 2359 included and may not be the same as the Stop Time.

**Stop Date (6-character string)**

Mandatory. The stop date may not be later than the end of the schedule. The stop date may not be the same as the start date for the same requirement.

**Stop Time (4-digit integer)**

Mandatory. A valid stop time for this requirement must be notified using the 24-hour UTC system. The value shall be between 0001 and 2400 included and may not be the same as the Start Time.

**Target Service Area (30-character string)**

Mandatory. A set of CIRAF Zones/Quadrants must be notified representing the target area to be served.

A Zone number on its own may be used or it may be followed by S, SW, etc. to indicate a Quadrant. More than one Zone or Zone/Quadrant may be notified, provided that they are separated by a comma.

The following CIRAF zones are not divided into quadrants: 1-5, 17, 19-26, 67 and 69-75.

Maps showing the CIRAF zones and quadrants are included with the HFBC software package.

**Transmitter power in kW (up to 4-digit integer)**

Mandatory. The power of the transmitter in kW must be notified. The value notified must be an integer in the range 1 to 5000 (kW).

For DSB transmitters the carrier power is to be given; for SSB transmitters the peak envelope power is to be used.

**ANNEX 3**

**HFBC Schedule on CD-ROM - Season B02 (27 October 2002 – 30 March 2003)  
List of editions and closing dates for submissions**

<b>Schedule Title</b>	<b>Date of edition</b>	<b>Date limit for submissions</b>
<b>B02 Tentative (B02T)</b>	End of August 2002	<b>8 August 2002</b>
<b>B02 Schedule 1 (B02S1)</b>	End of October 2002	<b>16 October 2002</b>
<b>B02 Schedule 2 (B02S2)</b>	End of December 2002	<b>12 December 2002</b>
<b>B02 Schedule 3 (B02S3)</b>	End of February 2003	<b>12 February 2003</b>
<b>B02 Final (B02F)</b>	End of April 2003	<b>16 April 2003</b>



**ANNEX 4**

**New Antenna Codes**

<b>Old Antenna Code</b>	<b>Antenna Definition</b>	<b>New Antenna Code</b>
1	AHR(S)4/4/1.0	218
2	AHR(S)4/4/0.8	217
3	AHR(S)4/4/0.5	216
4	AHR(S)4/3/0.5	211
5	AHR(S)4/2/0.5	206
6	AHR(S)4/2/0.3	205
7	AHR(S)2/4/1.0	158
8	AHR(S)2/4/0.8	157
9	AHR(S)2/4/0.5	156
10	AHR(S)2/3/0.5	151
11	AHR(S)2/2/0.5	146
12	AHR(S)2/2/0.3	145
13	AHR(S)2/1/0.5	141
14	AHR(S)2/1/0.3	140
15	AHR1/2/0.5	106
16	AHR1/2/0.3	105
17	AHR1/1/0.5	101
18	AHR1/1/0.3	100
19	CH2/1/0.5	711
20	CH2/1/0.3	710
21	CH1/2/0.5	706
22	CH1/2/0.3	705
23	CH1/1/0.5	701
24	CH1/1/0.3	700
25	HQ1/.3	925
26	LPH29/67.1/7/21.60/0.8/31.1/450	805
27	LPV12/56/2/14/2/12.5/450	851
28	RH155/68/40.3	902
29	CT2/1/.5	761
30	VM8/8/120/3	975
31	AHR(S)8/8/1.0	298
32	AHR(S)8/8/0.8	297
33	AHR(S)8/8/0.5	296
34	AHR(S)8/6/0.8	292
35	AHR(S)8/6/0.5	291
36	AHR(S)8/2/0.5	276
37	AHR(S)4/8/1.0	238
38	AHR(S)4/8/0.8	237
39	AHR(S)4/8/0.5	236
40	AHR(S)6/6/1.0	263
41	AHR(S)6/6/0.8	262
42	AHR(S)6/6/0.5	261
43	AHR(S)6/4/1.0	258

44	AHR(S)6/4/0.8	257
45	AHR(S)6/4/0.5	256
46	AHR(S)6/2/0.5	246
47	AHR(S)4/6/1.0	228
48	AHR(S)4/6/0.8	227
49	AHR(S)4/6/0.5	226
50	AHR(S)4/6/0.3	225
51	AHR(S)3/4/0.5	196
52	AHR(S)3/2/0.5	186
53	AHR(S)2/4/0.3	155
54	AHR(S)8/4/1.0	288
55	AHR(S)8/4/0.5	286
56	AHR(S)4/4/1.5	219
57	AHR(S)4/3/0.3	210
58	AHR(S)4/1/0.8	202
59	AHR(S)4/1/0.5	201
60	AHR(S)4/1/0.2	200
61	AHR(S)2/3/1.0	153
62	AHR(S)2/2/1.5	149
63	AHR(S)2/1/1.0	143
64	AHR(S)4/5/1.0	223
65	AHR(S)4/5/0.5	221
66	AHR(S)4/5/0.3	220
67	AHR(S)4/4/0.3	215
68	AHR(S)4/3/1.0	213
69	AHR(S)4/2/1.0	208
70	AHR 2/6/0.5	166
71	AHR 2/4/1.5	159
72	AHR(S)2/2/0.1	145
73	AHR(S)1/4/1.0	118
74	AHR(S)4/3/0.7	212
75	AHR(S)2/8/1.0	178

**ANNEX 5**

**Regional coordination groups**

ARAB STATES BROADCASTING UNION (A.S.B.U.)	
BP 65 El-Menzah 4 Tunis 1014 Tunisia	Tel: +216 1 / 703855 or / 703854 Fax: +216 1 / 704203 or / 704901

ASIA-PACIFIC BROADCASTING UNION-HIGH FREQUENCY CONFERENCE (ABU-HFC)	
P.O. Box 1164 59700 Kuala Lumpur Malaysia	Tel: +603 282 3592 Fax: +603 282 5292

HIGH FREQUENCY COORDINATION CONFERENCE (HFCC)	
Vinohradská 12 12099 Prague Czech Republic	Tel: +42 02 2271 5005 Fax: +42 02 2271 5005

AFRICAN REGIONAL COORDINATION GROUP	
URTNA Centre technique B.P. 39 Bamako Mali	Tel: +223 24 25 93 Fax: +223 24 48 09