

3. SATELLITE NETWORK CHARACTERISTICS FOR TRANSMISSION FROM THE SPACE STATION

SATELLITE TRANSMITTING ANTENNA BEAM DETAILS

PAGE OF

CHARACTERISTICS OF THE BEAM				ADD / MOD / SUP / REP of the beam ☐	
B1. TRANSMITTING BEAM DESIGNATION		NOTE: For a steerable beam, the last character of the beam designation shall be "R"		OLD BEAM DESIGNATION (if changed)	
B3/B4. ANTENNA CHARACTERISTICS					
3a/3b/4a. MAXIMUM ISOTROPIC GAIN +/- dBi	3d. POINTING ACCURACY Degrees +/-	3a/3b. ANTENNA GAIN CONTOURS DIAGRAM. SEE ATTACHMENT NO.	3a/4a/4b. ANTENNA RADIATION PATTERN REFERENCE PATTERN: RADIATION DIAGRAM. SEE ATTACHMENT NO.		
4b. FOR NON-GEOSTATIONARY SATELLITES UNDER RESOLUTION 46 (WRC-95): SATELLITE BEAM ORIENTATION		3f. ANTENNA GAIN VS ORBIT LONGITUDE DIAGRAM. SEE ATTACHMENT NO.	FOR NON-STANDARD ANTENNA PROVIDE Coefficient A dB Coefficient B dB		
ANGLE ALPHA Degrees MAXIMUM E.I.R.P. AT 4 kHz		ANGLE BETA Degrees AVERAGE E.I.R.P. AT 4 kHz		GAIN VS ELEVATION ANGLE DIAGRAM. SEE ATTACHMENT NO.	
SPREADING LOSS DATA. SEE ATTACHMENT NO.		MAXIMUM E.I.R.P. AT 1 MHz +/- dBW		AVERAGE E.I.R.P. AT 1 MHz +/- dBW	

INFORMATION COMMON TO THE FOLLOWING GROUPS (LISTS) OF ASSIGNED FREQUENCIES IN THIS BEAM	
A2a. DATE OF BRINGING INTO USE Day Month Year	A2b. PERIOD OF VALIDITY Years
A3a. OPERATING AGENCY OR COMPANY (Refer to Table 12A/12B of the Preface to the IFL & SRS)	A3b. ADMINISTRATION RESPONSIBLE FOR THE STATION (Refer to Table 12A/12B of the Preface to the IFL & SRS)
OTHER SPECIAL SECTIONS	
Reference Number	
(1)	
(2)	
(3)	
(4)	
(5)	
A5/A6. COORDINATED WITH OR AGREEMENT REACHED WITH	
RR Provision	Symbols of the Administrations concerned
R R	
R R	
R R	
R R	
R R	
A5/A6. COORDINATION REQUESTED WITH OR AGREEMENT SOUGHT WITH	
RR Provision	Symbols of the Administrations concerned
R R	
R R	
R R	
R R	
R R	
REMARKS	

NOTES ON FILLING IN THE NEXT PAGES:

FOR EACH BEAM YOU MAY PROVIDE ONE OR MORE GROUPS (LISTS) OF ASSIGNED FREQUENCIES, EACH GROUP (LIST) HAVING ONE SET OF COMMON CHARACTERISTICS. THE BOTTOM HALF OF THIS PAGE CONTAINS COMMON DATA THAT IS APPLICABLE TO ONE OR MORE GROUPS (LISTS) OF FREQUENCIES IN THIS BEAM. FOR EACH GROUP (LIST) OF FREQUENCIES IN THIS BEAM, FIRST FILL IN THE SET OF COMMON CHARACTERISTICS, INCLUDING ALL THE ASSOCIATED EARTH (OR SPACE) STATIONS AND THEIR EMISSIONS, FOLLOWED BY THE GROUP (LIST) OF FREQUENCIES TO WHICH THE SET APPLIES. USE AS MANY PAGES AS NECESSARY.

TRANSMITTING BEAM DESIGNATION

PAGE

OF

BRIDIFICATION NUMBER OF GROUP (LIST) OF FREQUENCIES TO BE MODIFIED / SUPPRESSED / REPLACED

ADD / MOD / SUP / REP of the group

CHARACTERISTICS COMMON TO THE FOLLOWING GROUP (LIST) OF ASSIGNED FREQUENCIES

C4a. CLASS OF STATION

C4b. NATURE OF SERVICE

C6. POLARIZATION

TYPE

if linear, provide angle in degrees

C3a. ASSIGNED FREQUENCY BAND

(kHz)

C8d. MAXIMUM TOTAL PEAK POWER

+/- dBW

C11a. SERVICE AREA

OR SERVICE AREA DIAGRAM SEE ATTACHMENT NO.

C9c. TYPE OF MODULATION AND MULTIPLE ACCESS DATA. SEE ATTACHMENT NO.

C9c. SPECTRUM MASK DIAGRAM SEE ATTACHMENT NO.

C11d. AFFECTED REGION SEE ATTACHMENT NO.

SERVICE AREA NUMBER

SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) COMMON TO THE FOLLOWING GROUP (LIST) OF ASSIGNED FREQUENCIES

SPACE STATION EMISSIONS

C7a. DESIGNATION OF EMISSION

C8a1/C8b1. * MAXIMUM PEAK POWER

C8a2/C8b2. * MAXIMUM POWER DENSITY

C8c1. MINIMUM PEAK POWER

C8c2. MINIMUM POWER DENSITY

C8e. C/N objective (total - clear sky)

* If maximum peak power and maximum power density values are of type C8b, check this box

MORE EMISSIONS ON NEXT PAGE

Reason for minimum peak power and minimum power density (C8c) values being absent; see attachment No.

EARTH STATION

10b1. EARTH STATION NAME

OLD EARTH STATION NAME (if changed)

COUNTRY

C10. TYPE OF STATION (typical/specific)

C10b2. GEOGRAPHICAL COORDINATES

C10c5. RECEIVING SYSTEM NOISE TEMPERATURE

C10c1. CLASS OF STATION

C10c2. NATURE OF SERVICE

C10c. ANTENNA CHARACTERISTICS

2. MAXIMUM ISOTROPIC GAIN

3. BEAMWIDTH

MORE ASSOCIATED RECEIVING STATIONS ON NEXT PAGE

ADD / MOD / SUP / REP of the station

C10c. ANTENNA CHARACTERISTICS (continued)

4a. RADIATION PATTERN (give reference pattern or provide diagram)

4b. ANTENNA RADIATION DIAGRAM. SEE ATTACHMENT NO.

FOR NON-STANDARD ANTENNA PROVIDE:

Coefficient A

Coefficient B

Coefficient C

Coefficient D

PH11

SPACE STATION

ADD / MOD / SUP / REP of the station

C10a. SPACE STATION NAME

OLD SPACE STATION NAME (if changed)

RECEIVING BEAM DESIGNATION

C10. TYPE OF STATION (Geo/Non-geo)

OLD BEAM DESIGNATION (if changed)

GROUP (LIST) OF ASSIGNED FREQUENCIES HAVING THE ABOVE COMMON CHARACTERISTICS

C2a. ASSIGNED FREQUENCY

K/M/G Hz

C2a. ASSIGNED FREQUENCY

K/M/G Hz

MORE ON NEXT PAGE

4. OVERALL LINK CHARACTERISTICS

PAGE

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FOR GEOSTATIONARY SPACE STATIONS USING SIMPLE FREQUENCY-CHANGING TRANSPONDERS
AND OPERATING WITH EARTH STATIONS

D1. Indicate the strapping (connection) between the uplink and downlink frequency assignments for each intended combination of receiving and transmitting beams

Serial No.	ADD / REP / SUP	BEAM COMBINATION		FREQUENCY COMBINATION					
		UPLINK BEAM	DOWNLINK BEAM	UPLINK ASSIGNED FREQUENCY		K/M/G Hz	DOWNLINK ASSIGNED FREQUENCY		K/M/G Hz

MORE ON NEXT PAGE

4. OVERALL LINK CHARACTERISTICS (CONT.)

PAGE OF

D2. For each entry (or group of entries) in table D1 indicate the following equivalent satellite link noise temperatures and associated transmission gains.

Line Number	ADD/ REP/ SUP	Reference to Serial No(s). in table D1	a1. LOWEST EQUIVALENT SATELLITE LINK NOISE TEMPERATURE		a2. ASSOCIATED TRANSMITTING GAIN		b1. SATELLITE LINK NOISE TEMPERATURE FOR HIGHEST RATIO OF GAIN/NOISE		b2. ASSOCIATED TRANSMITTING GAIN		ASSOCIATED RECEIVING EARTH STATION NAME	
			kelvins		+/-	dB	kelvins		+/-	dB		
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ALLEGATO B2

DATE (Day/Month/Year)	FORM OF NOTICE EARTH STATION (APPENDIX S4 - ANNEX 2A)	PAGE 1 OF	ApS4/III
Administration Serial Number			
A11. NOTIFYING ADMINISTRATION 	RR1488 Notification ☐	RR1107 Request for Coordination ☐	RR1610 Agreement under Art.14 ☐
FIRST NOTIFICATION ☐	Request for Assistance of the BR for RR1107 ☐ and RR1610 ☐		NOTIFICATION INTENDED FOR ADDITION MODIFICATION SUPPRESSION ☐
RESUBMISSION ☐	FS 46 Request for Coordination ☐		BR IDENTIFICATION NO. OF STATION TO BE MODIFIED / SUPPRESSED

1. CHARACTERISTICS OF THE EARTH STATION

A1e1. TYPE (Specific/Typical) ☐	A1e2. NAME OF THE EARTH STATION																								
A1e3a. COUNTRY ¹	A1e3b. GEOGRAPHICAL COORDINATES ¹																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">Longitude</th> <th colspan="4">Latitude</th> </tr> <tr> <th>Degrees</th> <th>E/W</th> <th>Min.</th> <th>Sec.</th> <th>Deg.</th> <th>N/S</th> <th>Min.</th> <th>Sec.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		Longitude				Latitude				Degrees	E/W	Min.	Sec.	Deg.	N/S	Min.	Sec.								
Longitude				Latitude																					
Degrees	E/W	Min.	Sec.	Deg.	N/S	Min.	Sec.																		
A4c1. ASSOCIATED SPACE STATION																									
A4c2. NOMINAL ORBITAL LONGITUDE (if geostationary) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Degrees</th> <th>E/W</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>		Degrees	E/W																						
Degrees	E/W																								
A7a. HORIZON ELEVATION DIAGRAM SEE ATTACHMENT NO.	A7b. ELEVATION ANGLE ¹ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Degrees</th> </tr> <tr> <td> </td> </tr> </table>	Degrees																							
Degrees																									
A7c. OPERATING AZMUTHAL ANGLES ¹ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>FROM (Degrees)</th> <th>TO (Degrees)</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>		FROM (Degrees)	TO (Degrees)																						
FROM (Degrees)	TO (Degrees)																								
A7d. ALTITUDE ¹ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Metres</th> </tr> <tr> <td> </td> </tr> </table>	Metres		A10. COORDINATION AREA DIAGRAMS SEE ATTACHMENT NO.																						
Metres																									

A7a. TABLE OF VALUES FOR THE HORIZON ELEVATION ¹

AZIMUTH	ELEVATION ANGLE	AZIMUTH	ELEVATION ANGLE	AZIMUTH	ELEVATION ANGLE	AZIMUTH	ELEVATION ANGLE	AZIMUTH	ELEVATION ANGLE	AZIMUTH	ELEVATION ANGLE
	Degrees		Degrees		Degrees		Degrees		Degrees		Degrees

GENERAL NOTES :

i. This form of notice consists of three parts - 1, 2, and 3 - as indicated below :

- 1 - Characteristics of the earth station
- 2 - Transmitting earth station characteristics and
- 3 - Receiving earth station characteristics.

In each part, each information item/data field includes a number in its label. This number is the same as that used for the same item in Appendix S4 (WRC-95) within the same part. For example, on the page labelled "Form ApS4/III - 2a" (at the bottom), the field "A2a. Date of bringing into use" is the item numbered 2a in Part A of Annex 2A to Appendix S4.

ii. Data items that are related are grouped together in a box. For example, the page labelled "Form ApS4/III - 2b" (at the bottom) contains a box titled "Emissions common to the assigned frequencies listed below". It is possible to specify 12 different emissions (with associated power and power density values) in this box. If there are more emissions, use another page of the same type to provide additional data, after checking (✓) the field labelled "More emissions on next page" on the preceding page. In all cases where there is more information than can fit in a box, follow this procedure.

iii. This form can be used to add, modify or suppress an existing station, by entering A, M or S in the box at the top right-hand corner of this page in the area titled "Notification intended for". In the case of a modification of an existing station, where certain data fields are to be added, modified or suppressed, provide ALL the data in the particular box as they would look after the change. In addition, indicate that the corresponding antenna or group of frequencies is being modified by entering M or R in the field that has been provided for this purpose at these levels.

iv. Certain fields in this notice form have a superscript "1" as part of their labels. This has the following meaning :

- 1 - This information is not required for the notification of a typical earth station.

2. TRANSMITTING EARTH STATION CHARACTERISTICS

PAGE OF

CHARACTERISTICS OF THE ANTENNA				ADD / MOD / SUP / REP of the antenna ☐							
B1. ASSOCIATED SATELLITE RECEIVING BEAM DESIGNATION		NOTE: For a steerable beam, the last character of the beam designation shall be "R"		OLD BEAM DESIGNATION (if changed)							
B5. EARTH STATION ANTENNA CHARACTERISTICS											
a. MAXIMUM ISOTROPIC GAIN +/- dBi		b. BEAMWIDTH Degrees		c1. ANTENNA RADIATION PATTERN DIAGRAM SEE ATTACHMENT NO.							
c2. RADIATION PATTERN (give reference pattern or provide diagram)		FOR NON-STANDARD ANTENNA PROVIDE:									
		Coefficient A dBi	Coefficient B dBi	Coefficient C dBi							
		Coefficient D dBi	PH1 Degrees								
INFORMATION COMMON TO THE FOLLOWING GROUPS (LISTS) OF ASSIGNED FREQUENCIES OF THIS ANTENNA											
A2a. DATE OF BRINGING INTO USE		A3b. ADMINISTRATION RESPONSIBLE FOR THE STATION (Refer to Table 12A/12B of the Preface to the IFL & SRS)									
<table border="1" style="width: 100%;"><tr><td>Day</td><td>Month</td><td>Year</td></tr><tr><td> </td><td> </td><td> </td></tr></table>		Day	Month	Year							
Day	Month	Year									
A3a. OPERATING AGENCY OR COMPANY (Refer to Table 12A/12B of the Preface to the IFL & SRS)											
SPECIAL SECTION AR11/A (RR1042) Number		OTHER SPECIAL SECTIONS									
<table border="1" style="width: 100%;"><tr><td>A</td><td>R</td><td>1</td><td>/</td><td>A</td><td>/</td><td> </td></tr></table>		A	R	1	/	A	/		Reference Number		
A	R	1	/	A	/						
SPECIAL SECTION AR11/C (RR1060) Number		(1)									
<table border="1" style="width: 100%;"><tr><td>A</td><td>R</td><td>1</td><td>/</td><td>C</td><td>/</td><td> </td></tr></table>		A	R	1	/	C	/		(2)		
A	R	1	/	C	/						
SPECIAL SECTION ART.14 (RR1810) Number		(3)									
<table border="1" style="width: 100%;"><tr><td>A</td><td>R</td><td>1</td><td>/</td><td>C</td><td>/</td><td> </td></tr></table>		A	R	1	/	C	/		(4)		
A	R	1	/	C	/						
		(5)									
A6/A7. COORDINATED WITH OR AGREEMENT REACHED WITH											
RR Provision		Symbols of the Administrations concerned									
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BR IDENTIFICATION NUMBER OF GROUP (LIST) OF FREQUENCIES TO BE MODIFIED / SUPPRESSED / REPLACED					ADD / MOD / SUP / REP group				
CHARACTERISTICS COMMON TO THE FOLLOWING GROUP (LIST) OF ASSIGNED FREQUENCIES									
C4a. CLASS OF STATION 				C6. POLARIZATION # linear, provide angle in degrees		C3a. ASSIGNED FREQUENCY BAND 		C8g. MAXIMUM AGGREGATE POWER # linear, provide angle in degrees	
C4b. NATURE OF SERVICE 				C6. POLARIZATION # linear, provide angle in degrees		C3a. ASSIGNED FREQUENCY BAND 		C8g. MAXIMUM AGGREGATE POWER # linear, provide angle in degrees	

EMISSIONS COMMON TO THE ASSIGNED FREQUENCIES LISTED BELOW

C7a. DESIGNATION OF EMISSION	C8a1/C8b1. * MAXIMUM PEAK POWER	C8a2/C8b2. * MAXIMUM POWER DENSITY	C8c1. MINIMUM PEAK POWER	C8c2. MINIMUM POWER DENSITY
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW/Hz

3. RECEIVING EARTH STATION CHARACTERISTICS

PAGE OF

CHARACTERISTICS OF THE ANTENNA										ADD / MOD / SUP / REP of the antenna
B1. ASSOCIATED SATELLITE TRANSMITTING BEAM DESIGNATION				NOTE: For a steerable beam, the last character of the beam designation shall be "R"				OLD BEAM DESIGNATION (if changed)		☐
B5. EARTH STATION ANTENNA CHARACTERISTICS										
a. MAXIMUM ISOTROPIC GAIN			b. BEAMWIDTH			c1. ANTENNA RADIATION PATTERN DIAGRAM. SEE ATTACHMENT NO.				
c2. RADIATION PATTERN (give reference pattern or provide diagram)			FOR NON-STANDARD ANTENNA PROVIDE:							
			Coefficient A dBi		Coefficient B dBi		Coefficient C dBi		Coefficient D dBi	
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SPECIAL SECTION AR11/A (RR1042)				Number		OTHER SPECIAL SECTIONS				
A R 1 1 / A /						Reference		Number		
SPECIAL SECTION AR11/C (RR1080)				Number		(1)				
A R 1 1 / C /						(2)				
SPECIAL SECTION ART.14 (RR1610)				Number		(3)				
A R 1 4 / C /						(4)				
(5)										
A6/A7. COORDINATED WITH OR AGREEMENT REACHED WITH										
RR Provision				Symbols of the Administrations concerned						
R R										
R R										
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R R										
R R										
REMARKS										

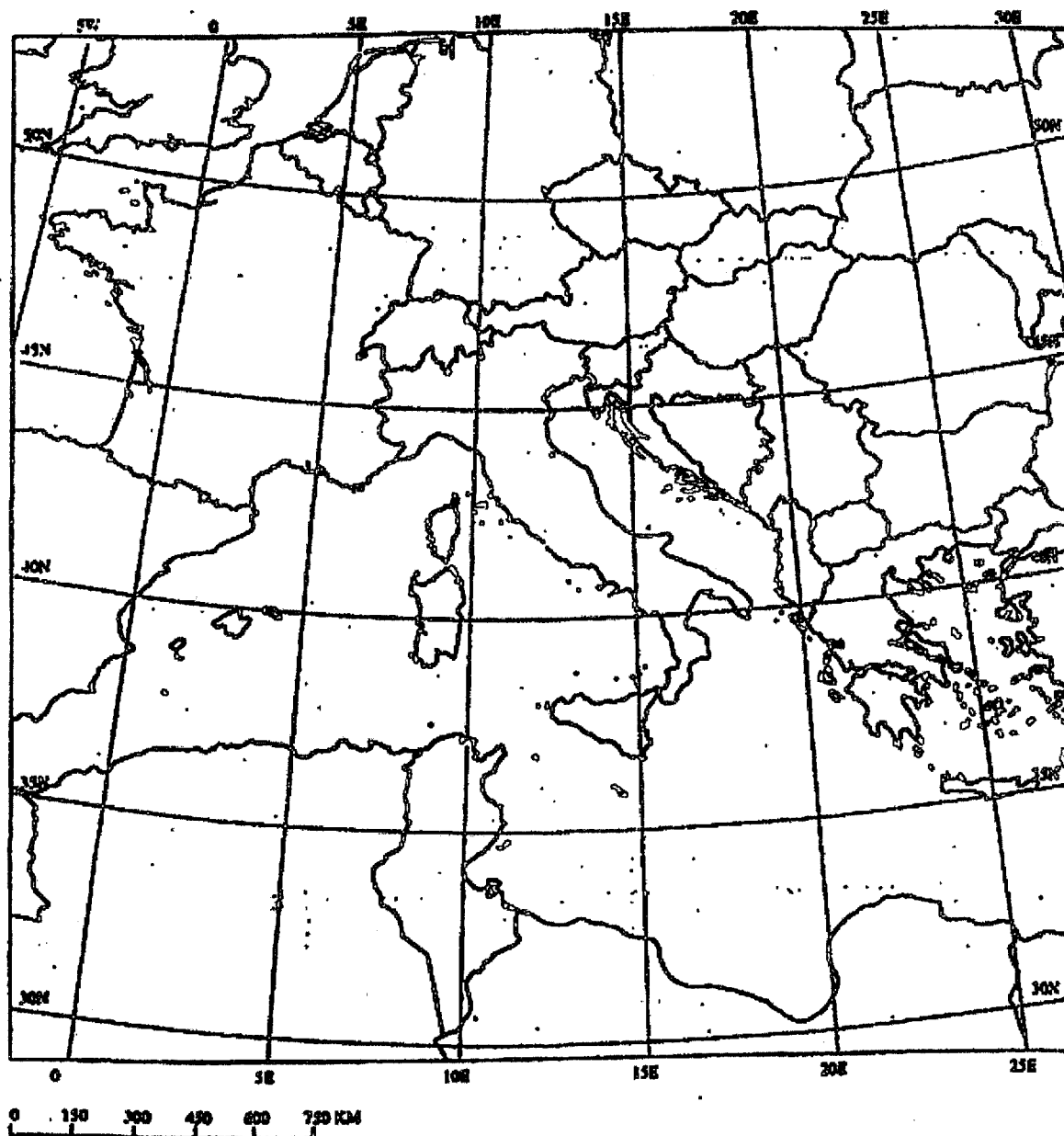
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[illegible]

ALLEGATO B3

CONTOURS DE COORDINATION DE LA STATION TERRIENNE DE TRANSMISSION
TRANSMITTING EARTH STATION COORDINATION CONTOURS
CONTORNOS DE COORDINACION DE LA ESTACION TERRENA TRANSMISORA

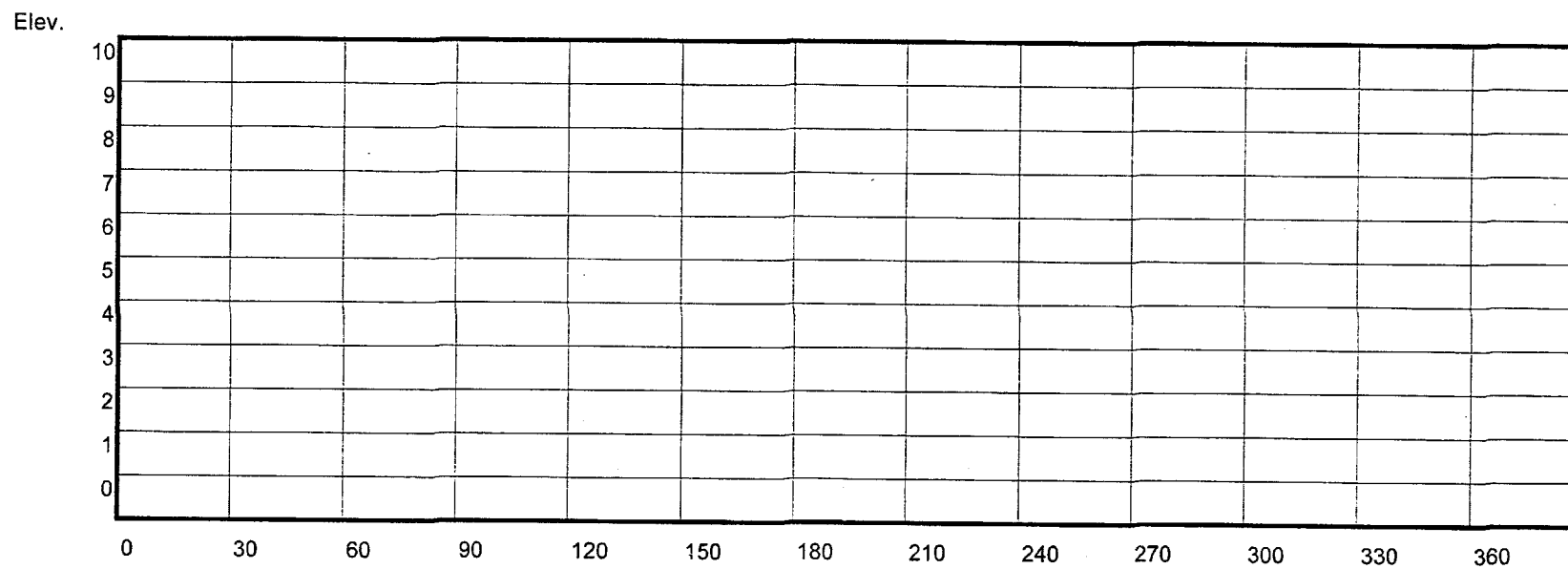


ALLEGATO B4

CONTOURS DE COORDINATION DE LA STATION TERRIENNE DE RECEPTION
RECEIVING EARTH STATION COORDINATION CONTOURS
CONTORNOS DE COORDINACION DE LA ESTACION TERRENA RECEPTORA



ALLEGATO B5



HORIZON ELEVATION ANGLE AROUND THE EARTH STATION

ALLEGATO B6

**BASIC CHARACTERISTICS TO BE FURNISHED IN NOTICES RELATING TO FEEDER-LINK
STATIONS IN THE FIXED-SATELLITE SERVICE OPERATING
IN THE FREQUENCY BANDS 17.3 - 18.1 GHZ**

1. The following information shall be provided in notices relating to both transmitting earth stations and receiving space stations.

1.1 Country and beam identification.

1.2 Assigned frequency.

1.3 Assigned frequency band.

1.4 Date of bringing into use.

– Designation of emission

– Modulation characteristics:

a) type of modulation;

b) pre-emphasis characteristics;

c) TV system;

d) sound-broadcasting characteristics;

e) frequency deviation;

f) composition of the baseband;

g) type of multiplexing of the video and sound signals;

h) energy dispersal characteristics;

i) in the case of a digital modulation, the effective and transmitted bit/symbol rates

2. The following additional information shall be provided in notices relating to transmitting earth stations.

2.1 Identity of the transmitting feeder-link station.

2.2 For a specific feeder-link earth station, identity of the earth station and the geographical coordinates of the antenna site.

2.3 Feeder-link service area identified by:

a) a set of a maximum of twenty feeder-link test points, and

b) a service-area contour on the surface of the Earth or a service area defined by a minimum elevation angle in degrees.

2.4 Identity of the associated space station with which communication is to be established.

2.5 Power characteristics of the transmission:

a) The following information is required for each assigned frequency:

– total transmitting power (dBW) in the assigned frequency band supplied to the input of the antenna;

– for the band 17.3 - 18.1 GHz, the maximum power density per Hz (dB(W/Hz)) supplied to the input of the antenna averaged over the worst 1 MHz band;

– for the band 17.3 - 17.8 GHz, the maximum power density per Hz (dB(W/Hz)) supplied to the input of the antenna averaged over the total RF bandwidth (27 MHz for Regions 1).

b) Additional information required if power control is used range, expressed in dB, above the transmitting power used in § a) above.

2.6 Earth station transmitting antenna characteristics:

a) antenna diameter (m);

b) gain of the antenna in the direction of maximum radiation referred to an isotropic radiator (dBi);

- c) half-power beamwidth in degrees (describe in detail if not symmetrical);
- d) measured radiation diagram of the antenna (taking as a reference the direction of maximum radiation), or reference radiation diagram to be used for coordination;
- e) type of polarization;
- f) sense of polarization, and, in the case of a linear polarization, the angle (degrees) measured counter-clockwise in a plane normal to the beam axis from the equatorial plane to the electric vector of the wave as seen from the satellite in the direction of the nominal boresight or aim point as defined under § 3.4 e) or 3.4 f) below;
- g) horizon elevation angle in degrees and the antenna gain in the direction of the horizon for each azimuth around the earth station;
- h) altitude of the antenna above mean sea level (m);
- i) minimum elevation angle (degrees).

2.7 Regular hours of operation (UTC).

2.8 Coordination.

2.9 Agreements.

2.10 Other information.

2.11 Operating administration or agency.

3. The following information shall be provided in notices relating to receiving space stations.

3.1 Orbital position (from the Greenwich Meridian).

3.2 Identity of the space station.

3.3 Class of station.

3.4 Space station receiving antenna characteristics:

- a) co-polar gain of the antenna in the direction of maximum radiation referred to an isotropic radiator (dBi), as well as the cross-polar gain of the antenna in the case of a beam of other than elliptical shape;
- b) pointing accuracy (degrees);
- c) type of polarization;
- d) sense of polarization, and, in the case of a linear polarization, the angle (degrees) measured counter-clockwise in a plane normal to the beam axis from the equatorial plane to the electric vector of the wave as seen from the satellite in the direction of the nominal bore sight or aim point as defined under § 3.4 e) or 3.4,f) below;
- e) for elliptical beams, indicate the following:
 - co-polar and cross-polar radiation patterns;
 - rotation accuracy (degrees);
 - orientation (degrees);
 - major axis (degrees) at the half-power beamwidth;
 - minor axis (degrees) at the half-power beamwidth;
 - nominal intersection of the antenna beam axis with the Earth (boresight longitude and latitude);
- f) for beams of other than elliptical shape, indicate the following:
 - co-polar and cross-polar gain contours plotted on a map of the Earth's surface, preferably in a radial projection from the satellite onto a plane perpendicular to the axis from the centre of the Earth to the satellite. The isotropic gain shall be indicated at each contour which corresponds to a decrease in gain of 2, 4, 6, 10 and 20 dB and thereafter at 10 dB intervals down to a value of 0 dB relative to an isotropic radiator;
 - wherever practicable, a numerical equation or table providing the necessary information to allow the gain contours to be plotted;

-- nominal intersection of the antenna beam axis with the Earth (boresight or aim point, longitude and latitude);

g) for an assignment in the band 17.7 - 18.1 Ghz, the isotropic gain in the direction of those parts of the geostationary-satellite orbit which are not obstructed by the Earth. Use a diagram showing estimated isotropic gain relative to orbit longitude.

3.5 Receiver system noise temperature referred to the output of the antenna (K).

3.6 Station-keeping accuracy (degrees).

3.7 Regular hours of operation (UTC).

3.8 Coordination.

3.9 Agreements.

3.10 Other information.

3.11 Operating administration or agency.

3.12 Range of automatic gain control 18 .

4. Connection between Earth-to-space and space-to-Earth frequencies in the network in the case of Region 2.

5. Description of the group(s) required in the case of non-simultaneous emissions.

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Basic data to be furnished in notices relating to stations in the fixed-satellite service entering the design stage using frequency bands 4500–4800 Mhz; 6725–7025 Mhz; 10,70–10,95 Ghz; 11,20–11,45 Ghz; 12,75–13,25 Ghz

1. Space station characteristics

The following information shall be supplied for both the transmitting and receiving space stations.

1.1 Country and identification of the allotment (for a network not derived from the Allotment Plan, give the name of the network).

1.2 Preferred or nominal orbital Position (xxx.xx degrees east or west from the Greenwich meridian. In addition, in the case of a network not derived from the Allotment Plan, give the service arc).

1.3 Frequency bands

1.4 Dates proposed for bringing into use.

1.5 Identity of the space station

1.6 Service area as defined by the allotment in the Plan. Alternatively, the service area may be defined by a number of geographical points.

1.7 Power characteristics of the transmission

a) Maximum value of power density, in dB(W/Hz), averaged over the necessary bandwidth of the modulated carrier, supplied to the input of the antenna. (This value will be used for calculation of the C and D parameters. See Annex 1, Section B.)

b) Maximum carrier power density, in dB(W/Hz), averaged over the worst 4 kHz band, supplied to the antenna input.

c) Frequency below which signals whose peak-to-average ratio is less than 5 dB will be located.

1.8 Space station transmitting and receiving antenna characteristics

a) gain of the antenna in the direction of maximum radiation referred to an isotropic antenna (dBi);

b) boresight coordinates (xx.xx degrees north or south, yyy.yy degrees east or west from the Greenwich meridian);

c) pointing accuracy (degrees);

d) shape of the beam (elliptical, circular, or other);

e) for circular beams indicate the following:

a) half-power beamwidth in degrees;

b) – radiation pattern;

f) for elliptical beams indicate the following:

a) radiation pattern;

b) rotational accuracy in degrees;

c) major axis orientation in degrees anticlockwise from the Equator;

d) major axis beamwidth (degrees) at the half-power points;

e) minor axis beamwidth (degrees) at the half-power points;