

Section	Chapter	Page	Rev.
IV	2	1	

## CHAPTER 2

### DETAILS RELATING TO THE CONTENTS OF THE COLUMNS OF PART I-S AND OF SPECIAL SECTIONS AR11/C AND RES33/C OF THE WEEKLY CIRCULAR

***NOTE:** Tables referred to in the present Chapter 2 appear in the Annex to Section IV.*

#### **Item 1 - Name of the space or earth station**

Item 1 contains the following information:

- in the case of a satellite network (notice form AP3/II), the name of the notified space station
- in the case of an earth station (notice form AP3/III), the name of the notified earth station.

#### **Nature of information**

A group of letters sometimes preceded or followed by a number, the total not exceeding 20 characters.

#### **Symbols used**

Table No. 4A1 contains the list of standard abbreviations used to compress the station names to 20 characters when the names are longer.

#### **Item 2 - Notifying administration**

#### **Nature of information**

A country symbol indicating the notifying administration (see Table No. B1). In the case of notification of a satellite network, the country symbol may be followed by a symbol indicating an international satellite system (Intelsat, Interspoutnik, etc.) (see Table No. B2).

Recordings in the Master Register which do not result from a notification, such as allotments and frequencies for common use which are entered by the Bureau in accordance with the provisions of the Radio Regulations, are indicated by the symbol "IFB" in this column.

Section	Chapter	Page	Rev.
IV	2	2	

Item 2 (cont.)

Symbols used

Table No. B1 contains the country symbols used to designate the notifying administrations.

Table No. B2 lists the symbols used to designate international satellite systems and the administration responsible for notification of such systems.

**Item 3 - Date of receipt**

This item contains the date of receipt of the notice relating to the satellite network or earth station concerned.

Nature of information

Three sets of two digits, representing the day, the month and the last two figures of the year respectively.

**Item 4 - Identification number of the network**

An "identification number" is given to each network or station by the Bureau during the processing of a notice. This number is recorded in the Master Register. Administrations are requested to indicate this number when submitting a notice of modification or suppression of the network or station concerned (see paragraph 8.1 of Annex 1 to IFRB Circular-letter No. 902 of 25 May 1992).

Nature of information

A group of figures distributed as follows:

- the first two figures indicate the notification year;
- the following six figures indicate the network or station number.

**Item 5 - Provision reference code and category of notification**

This provision reference code refers to the provision of the Radio Regulations according to which the network or station is notified. The category of notification is associated with that provision.

Nature of information

- for notification under Section II of Article 11 the provision reference code is RR1060 and the category of notification is C,

Section	Chapter	Page	Rev.
IV	2	3	

Item 5 (cont.)

- for notification under Article 13 the provision reference code is RR1488 and the category of notification is N.

**Item 6 - WIC Number**

This item contains the number (for both publication of Special Sections and publication of notices received under Article 13) and Part (for publication of notices received under Article 13) of the weekly Circular in which the data pertaining to the network or station was most recently published.

Nature of information

A four digit number followed (when relevant) by the symbol:

- A if published in Part IA
- 2 if published in Part II
- 3 if published in Part III.

**Item 7 - Special Section Number**

This item contains the number (for publication of Special Sections) of the Special Section in which the data pertaining to the network was most recently published.

Nature of information

A four digit number.

**Item 8 - Nominal longitude of a geostationary space station**

Item 8 contains information only in the case of a satellite network using a geostationary space station.

Nature of information

Numbers and a letter (degrees with two decimal positions and a letter (E or W)) indicating the nominal longitude of the space station.

**Item 9 - Longitudinal tolerance**

Nature of information

Two values (degrees with two decimal positions) indicating the planned longitudinal tolerance West and East of the nominal orbital longitude of a geostationary space station.

Section	Chapter	Page	Rev.
IV	2	4	

**Item 10 - Inclination excursion**

(Relevant only for a space station on board a geostationary satellite)

Item 10 contains the inclination excursion for a space station on board a geostationary satellite.

**Nature of information**

A group of figures (degrees with two decimal positions) representing the inclination.

**Item 11 - Visibility arc**

(Relevant only for a space station on board a geostationary satellite)

**Nature of information**

Two groups of figures (each group is followed by a letter) corresponding to the orbital longitudes representing the limits of the visibility arc, expressed in degrees from West to East.

**Item 12 - Service arc**

(Relevant only for a space station on board a geostationary satellite)

**Nature of information**

Two groups of figures (each group is followed by a letter) corresponding to the orbital longitudes representing the limits of the service arc expressed in degrees from West to East.

**Item 13 - (For internal use by the Bureau)**

**Item 14 - Inclination angle**

(Relevant only for a space station on board a non-geostationary satellite)

Item 14 contains the inclination angle for a space station on board a non-geostationary satellite.

**Nature of information**

A group of figures (degrees with one decimal position) representing the inclination.

**Item 15 - Period (non-geostationary satellite)**

(Relevant only for a space station on board a non-geostationary satellite)

**Nature of information**

A group of figures indicating the period expressed in days and hours or hours and minutes.

Section	Chapter	Page	Rev.
IV	2	5	

**Item 16 - Altitude of the apogee**

(Relevant only for a space station on board a non-geostationary satellite)

**Nature of information**

Altitude above the surface of the Earth, in kilometres.

**Item 17 - Altitude of the perigee**

(Relevant only for a space station on board a non-geostationary satellite)

**Nature of information**

Altitude above the surface of the Earth, in kilometres.

**Item 18 - Reference body**

(Relevant only for a space station on board a non-geostationary satellite)

**Nature of information**

A letter to indicate in abbreviated form the attracting celestial body which primarily determines the motion of the satellite.

**Symbols used**

The letters indicating the attracting celestial body are as follows:

T for Earth  
L for Moon  
M for Mars  
J for Jupiter  
V for Venus  
S for Sun

**Item 19 - Number of satellites**

(Relevant only for a space station on board a non-geostationary satellite)

**Nature of information**

Two figures indicating the number of space stations having the same radio frequency characteristics and the same orbital characteristics being used for the given service.

**Item 20 - Type of earth station**

**Nature of information**

A letter indicating the type of earth station as follows:

Section	Chapter	Page	Rev.
IV	2	6	

Item 20 (cont.)

- S if the notice concerns a specific earth station,
- T if the notice concerns a typical earth station.

**Item 21 - Associated space station**

Item 21 contains the name of the associated space station with which the earth station is communicating.

Nature of information

A group of letters sometimes preceded or followed by a number, the total not exceeding 20 characters.

**Item 22 - Country or geographical area in which the earth station indicated in Item 1 is located**

Item 22 contains the symbol of the country or geographical area in which the station is located.

Nature of information

One of the symbols shown in Table No. B1.

Symbol used

See Table No. B1.

**Item 23 - Geographical coordinates**

Item 23 contains geographical coordinates and is used in combination with Items 1 and 22 to identify the site of the earth station.

Nature of information

Longitude and latitude in degrees, minutes and seconds.

**Item 24 - (For internal use by the Bureau)**

**Item 25 - Elevation angle**

Item 25 contains the planned minimum operating angle of elevation of the antenna in the direction of maximum radiation towards the associated space station.

Section	Chapter	Page	Rev.
IV	2	7	

Item 25 (cont.)

Nature of information

Indication in degrees with one decimal position, preceded by the sign + or -.

**Item 26 - Sector of azimuths**

Item 26 contains an azimuthal sector defined by two limits. For earth stations operating with non-geostationary satellites, this item contains the planned range of operating azimuthal angles (in degrees) clockwise from True North of the earth station. For earth stations operating with geostationary satellites, this item contains the azimuthal angles corresponding to the station-keeping tolerance of the geostationary satellite concerned.

Nature of information

Two azimuths indicated in degrees with one decimal position.

**Item 27 - Altitude of antenna**

Item 27 contains the altitude above sea level in metres of the earth station antenna.

Nature of information

A number preceded by the + or - sign.

**Item 28 - Designation of the satellite antenna beam**

This item contains the designation of a receiving or transmitting satellite antenna beam of the space station (in the case of the notification of a satellite network) or of the associated space station (in the case of the notification of an earth station).

Nature of information

An alphanumeric symbol with up to three characters indicating the designation of the satellite antenna beam.

**Item 29 - Transmission/reception indicator**

Nature of information

A letter indicating that the satellite antenna beam (in the case of notice form AP3/II) or the earth station antenna (in the case of notice form AP3/III) is intended for reception or transmission as follows:

Section	Chapter	Page	Rev.
IV	2	8	

Item 29 (cont.)

- E if used for transmission,
- R if used for reception.

**Item 30 - (For internal use by the Bureau)**

**Item 31 - Antenna gain in dB**

Item 31 contains the maximum isotropic gain of the space or earth station antenna.

Nature of information

A group of figures expressing the gain in dB with one decimal position preceded by the + or - sign.

**Item 32 - Pointing accuracy**

(Relevant only for a space station on board a geostationary satellite)

Nature of information

A group of figures indicating the maximum deviation of the antenna relative to the nominal pointing direction, expressed in degrees with two decimal positions.

**Item 33 - Polarization**

Item 33 contains information on the polarization when used for coordination.

Nature of information

A group of letters and figures.

Symbols used

Table No. 9D1 contains the symbols used.

**Item 34 - (For internal use by the Bureau)**

**Item 35 - (For internal use by the Bureau)**

**Item 36 - (For internal use by the Bureau)**



Section	Chapter	Page	Rev.
IV	2	9	

### **Item 37 - Beamwidth**

Item 37 contains information on the beamwidth of the space or earth station antenna measured at the mean half-power points of the main lobe.

#### Nature of information

Indication in degrees with two decimal positions.

### **Item 38 - Radiation pattern**

The radiation pattern is indicated by a reference to a pattern described below.

#### Nature of information

A group of figures and letters.

#### Symbols used

The following symbols are used in Item 38:

<u>Symbol</u>	<u>Description of the radiation pattern</u>
REC-465	Current version of CCIR Recommendation 465: "Reference earth station radiation pattern for use in coordination and interference assessment in frequency range from 2 to about 30 GHz."
REC-580	Current version of CCIR Recommendation 580: "Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites."
AP28	Point 4, Annex II of Appendix 28. <i>Note: This radiation diagram is identical to that in Annex III to Appendix 29.</i>
29-25LOG(FI)	Represents a reference radiation pattern similar to that in CCIR Recommendation 465 with side lobe radiation reduced by 3 dB.
27-25LOG(FI)	As above with side lobe radiation reduced by 5 dB.
ND	Quasi-omnidirectional radiation pattern with the maximum isotropic gain stated in Item 31 or 67.

Section	Chapter	Page	Rev.
IV	2	10	

#### **Item 39 - Class of station**

##### Nature of information

A symbol composed of two letters.

##### Symbols used

Table No. 6A1 lists the symbols used in Item 39. They are contained in Appendix 10 to the Radio Regulations or have been created by the Bureau.

#### **Item 40 - Nature of service**

##### Nature of information

A symbol composed of two letters.

##### Symbols used

Table No. 6B1 lists the symbols used in Item 40. They are contained in Appendix 10 to the Radio Regulations or have been created by the Bureau.

#### **Item 41 - Assigned frequency band (kHz)**

Item 41 contains the width of the assigned frequency band, expressed in kHz.

##### Nature of information

A group of figures (maximum of eight digits).

#### **Item 42 - Receiving system noise temperature**

Item 42 contains the receiving system noise temperature of the space station (in the case of notification of a satellite network) or of the earth station (in the case of the notification of an earth station).

##### Nature of information

A number representing a value in Kelvins.

#### **Item 43 - Service area**

Item 43 contains the service area of the space station antenna beam within which the associated earth stations are located.

Section	Chapter	Page	Rev.
IV	2	11	

Item 43 (cont.)

When the service area is the visible part of one or more of the three radiocommunication Regions (see RR392 to RR399), this is indicated, as appropriate, by the symbols RG1, RG2 or RG3 for Region 1, Region 2 and Region 3 respectively.

Nature of information

Up to eight three letter symbols each indicating a country or a geographical area (see Table No. B1).

Symbols used

See Table No. B1.

**Item 44 - Service area diagram**

This item contains the number of the service area diagram as captured into the Graphical Information System (GIMS). This service area number is associated with the satellite antenna beam concerned and allows for the possibility to have up to 9 service areas associated with a particular receiving or transmitting satellite antenna beam.

Nature of information

A number ranging from 01 to 09.

**Item 45 - Identification number of the Group**

An "identification number" is given to each group of assignments having common characteristics by the Bureau during the processing of a notice. This number is recorded in the Master Register. Administrations are requested to indicate this number when submitting a notice of modification or suppression of the group concerned (see paragraph 8.1 of Annex 2 of IFRB Circular-letter No. 902 of 25 May 1992).

Nature of information

A group of figures distributed as follows:

- the first two figures indicate the notification year;
- the following six figures indicate the group number.

**Item 46 - Coordination information**

This item contains information on coordinations or agreements obtained or requested, as notified by Administrations, as well as information on coordinations or agreements required or not obtained, as established by the Bureau as a result of its examination performed either under the provisions of Section II of Article 11, those of Article 13 or of the procedure annexed to Resolution No. 46 (REV. WRC-95).

Section	Chapter	Page	Rev.
IV	2	12	

Item 46 (cont.)

Nature of information

- a) A reference to a provision of the Radio Regulations, an Appendix thereto, or a Resolution of a Conference followed, if appropriate, by one or more country symbols.
- b) In some cases, such as when agreement with a country is not reached, the provision of the Radio Regulations will be preceded by a symbol, the meaning of which is indicated in Table No. 11/1.

Associated with each reference is a symbol indicating the nature of the coordination information, as follows:

- O if the coordination or agreement has been obtained
- X if the coordination or agreement has not been obtained
- R if the coordination or agreement has been requested
- \* if the coordination or agreement is required but has not been requested

Symbols used

1. Symbols used by the Bureau when examining notices under Article 13.

Details of symbols are to be found in Table No. 11/1.

2. Symbols used by the Bureau when examining notices under Section II of Article 11:

RR1060/... In addition to the administrations to whom a coordination request was forwarded under RR1060 by the notifying administration, coordination under RR1060 was found by the Bureau to be also required with the administrations of the countries whose symbols follow the slant stroke.

RR1066A - 1069 The Bureau found that, according to the provisions of RR1066A, RR1068 or RR1069, no coordination under RR1060 was required.

3. Symbols to be used by administrations in RR1060 coordination requests:

RR1060/... The administration has sought a coordination agreement under RR1060 with the administration of the countries whose symbols follow the slant stroke.

RR1066A - 1069 The administration states that, according to the provisions of RR1066A, RR1067, RR1068 or RR1069, no coordination under RR1060 was required.

Section	Chapter	Page	Rev.
IV	2	13	1

Item 46 (cont.)

4. Symbols to be used by administrations when notifying under Article 13:
- RR1060/.... The administration has obtained a coordination agreement under RR1060 with the administrations of the countries whose symbols follow the slant stroke.
- RR1066A - 1069 The administration states that, according to the provisions of RR1066A, RR1067, RR1068 or RR1069, no coordination under RR1060 was required.
- RR1070  
RR1070/.... For the present assignment to a receiving station the administration accepts the interference resulting from the frequency assignments which should have been the subject of a coordination agreement under RR1060. When this remark is followed by symbols indicating one or more administrations, the interference acceptance statement refers to the administration of the country whose symbol follows the slant stroke.
- RR1107/.... The administration has obtained a coordination agreement under RR1107 with the administrations of the countries whose symbols follow the slant stroke.
- RR1109 - RR1111 The administration states that, according to the provisions of RR1109, RR1110 or RR1111, no coordination under RR1107 was required.
- RR1111A  
RR1111A/.... For the present assignment to a receiving earth station the administration accepts the interference resulting from existing or future terrestrial station assignments. When this remark is followed by symbols indicating one or more administrations, the interference acceptance statement refers to the administration of the country designated by the symbol which follows the slant stroke.
- RS46 2.1/... The administration has obtained a coordination agreement under paragraph 2.1 of the procedure annexed to Resolution 46 with the administrations of the countries whose symbols follow the slant stroke.
- RS46 2.2/... The administration has obtained a coordination agreement under paragraph 2.2 of the procedure annexed to Resolution 46 with the administrations of the countries whose symbols follow the slant stroke.
- Z/RS46 2.1  
or  
Z/RS46 2.2 Based on the assumption that the present earth station was taken into account in the Resolution 46 coordination of the corresponding satellite network, a favourable Finding was formulated with respect to No. 5.1.1 of Section V of the procedure in Annex 1 to Resolution 46. Nevertheless, this Finding will be reviewed when appropriate, if, after six months following the publication in Part II of the weekly Circular, an objection from the administration concerned has been received.

(March 1999)

Section	Chapter	Page	Rev.
IV	2	14	

Item 46 (cont.)

- RS46 2.5.8A The administration states that, according to the paragraph 2.5.8a) no coordination under paragraphs 2.1 or 2.2 of the procedure annexed to Resolution 46 was required.
- RS46 2.5.8B For the present assignment to a receiving station the administration or  
RS46 should have been the subject of a coordination agreement under paragraphs 2.1 or 2.2 of the procedure annexed to Resolution 46. When this remark is followed by symbols indicating one or more administrations, the interference acceptance statement refers to the administration of the country whose symbol follows the slant stroke.
- RS46 3.1/... The administration has obtained a coordination agreement under paragraph 3.1 of the procedure annexed to Resolution 46 with the administrations of the countries whose symbols follow the slant stroke.
- RS46 3.1.2 - The administration states that, according to paragraphs 3.1.2, 3.1.3 or  
3.1.4 no coordination under paragraph 3.1 of the procedure annexed to Resolution 46 was required.
- RS46 3.1.5 For the present assignment to a receiving earth station the administration or  
RS46 3.1.5/... accepts the interference resulting from existing or future terrestrial station assignments or earth station assignments operating in the opposite direction of transmission. When this remark is followed by symbols indicating one or more administrations, the interference acceptance statement refers to the administration of the country designated by the symbol which follows the slant stroke.
- RR---/.... The administration has successfully completed the coordination or agreement procedures in accordance with the provision of the Radio Regulations indicated in this remark. When this remark is followed by symbols indicating one or more administrations, the coordination/agreement statement refers to the administration of the country designated by the symbol which follows the slant stroke.
- NI/.... In the case of a transmitting station, the notifying administration has undertaken to use this frequency assignment on the basis of non-interference to stations of the country whose symbol follows the slant stroke. In the case of a receiving earth station, the notifying administration has undertaken to accept the interference to this assignment resulting from the existing or future terrestrial station assignments of the country whose symbol follows the slant stroke.
- RR1610 The administration has successfully completed the agreement procedure  
RR1610/.... in accordance with RR1610. When this remark is followed by symbols indicating one or more administrations this agreement has been obtained explicitly from these administrations.

Section	Chapter	Page	Rev.
IV	2	15	

#### **Item 47 - Remarks**

##### Nature of information

The symbols used in Item 47 are given, together with their meaning, in Table No. 13C.

#### **Item 48 - Date of bringing into use**

##### Nature of information

A group of six figures.

#### **Item 49 - Period of validity**

(For a space station on board a geostationary satellite in application of Resolution No. 4)

##### Nature of information

A group of figures representing the period of validity (in years) of the assignment.

#### **Item 50 - Operating agency**

##### Nature of information

A symbol consisting of a maximum of three numeric characters.

##### Symbols used

See Table No. 12A/12B. The information is presented in series corresponding to each symbol appearing in Item 2 in the case of notification of a satellite network and Item 22 in the case of the notification of an earth station; in this latter case the significance of these symbols is purely geographical (see Table No. B1).

#### **Item 51 - Address of the administration responsible for the station**

##### Nature of information

A symbol consisting of a maximum of two alphabetical characters.

##### Symbols used

See Table No. 12A/12B. The information is presented in series corresponding to each symbol appearing in Item 2 in the case of notification of a satellite network and Item 22 in the case of the notification of an earth station; in this latter case the significance of these symbols is purely geographical (see Table No. B1).

Section	Chapter	Page	Rev.
IV	2	16	

#### **Item 52 - Reference to Special Sections**

This item contains a reference to one or more Special Sections in which data pertaining to the satellite network or earth station was previously published.

##### Nature of information

A symbol indicating the Special Section of the weekly Circular followed by its number in which one or more of the following were published:

- advance publication of information concerning the satellite network (Section I of Article 11)
- request for coordination (Section II of Article 11)
- request for agreement (Article 14).

#### **Item 53 - Assigned frequency**

##### Nature of information

A group of figures followed by the symbol K (kiloHertz), M (MegaHertz) or G (GigaHertz).

##### Symbols used

- K for frequencies up to 28 000 kHz inclusive
- M for frequencies above 28 000 kHz up to 10 500 MHz inclusive
- G for frequencies above 10 500 MHz.

#### **Item 54 - Identification number of the frequency assignment**

An "identification number" is given to each assignment by the Bureau during the processing of a notice. This number is recorded in the Master Register. Administrations are requested to indicate this number when submitting a notice of modification or suppression of the assignment concerned (see paragraph 8.1 of Annex 2 to IFRB Circular-letter No. 902 of 25 May 1992).

##### Nature of information

A group of figures distributed as follows:

- the first two figures indicate the notification year;
- the following six figures indicate the assignment number.

#### **Item 55 - Emission entry serial number**

Item 55 is the identification number given to each emission by the Bureau during the processing of a notice.



Section	Chapter	Page	Rev.
IV	2	17	

Item 55 (cont.)

Nature of information

A three digit number.

**Item 56 - Designation of emission**

Item 56 contains the designation of emissions in accordance with Article 4 of the Radio Regulations and Appendix 6 thereto.

Nature of information

A group of nine alphanumerical characters.

**Item 57 - Power delivered to the antenna (dBW)**

Item 57 contains the total peak power delivered to the antenna transmission line expressed in dBW.

Nature of information

A number with one decimal position, preceded by the + or - sign.

**Item 58 - Maximum power density**

Item 58 contains the maximum power density (expressed in dBW/Hz).

Nature of information

A number with one decimal position, preceded by the + or - sign.

**Item 59 - Name of the associated earth station**

Item 59 contains the name of the associated earth station, in the case of the notification of a satellite network.

Nature of information

A group of letters sometimes preceded or followed by a number, the total not exceeding 20 characters.

Symbols used

Table No. 4A1 contains the list of standard abbreviations used to compress the station names to 20 characters when the names are longer.

Section	Chapter	Page	Rev.
IV	2	18	2

**Item 60 - (For internal use by the Bureau)**

**Item 61 - Country or geographical area in which the associated earth station indicated in Item 59 is located**

Item 61 contains the symbol of the country or geographical area in which the specific earth station is located.

Nature of information

One of the symbols shown in Table No. B1.

Symbols used

See Table No. B1.

**Item 62 - Type of associated earth station**

Nature of information

A letter indicating the type of earth station as follows:

- S if the notice concerns a specific earth station,
- T if the notice concerns a typical earth station.

**Item 63 - Geographical coordinates**

Item 63 contains geographical coordinates and is used in combination with Items 59 and 61 to identify the site of the specific earth station.

Nature of information

Longitude and latitude in degrees, minutes and seconds.

**Item 64 - Receiving system noise temperature**

Item 64 contains the receiving system noise temperature of the associated earth station.

Nature of information

A number representing a value in Kelvins.

Section	Chapter	Page	Rev.
IV	2	19	

#### **Item 65 - Class of station**

##### Nature of information

A symbol composed of two letters.

##### Symbols used

Table No. 6A1 lists the symbols to be used in Item 65. They are contained in Appendix 10 to the Radio Regulations or have been created by the Bureau.

#### **Item 66 - Nature of service**

##### Nature of information

A symbol composed of two letters.

##### Symbols used

Table No. 6B1 lists the symbols to be used in Item 66. They are contained in Appendix 10 to the Radio Regulations or have been created by the Bureau.

#### **Item 67 - Antenna gain in dB**

Item 67 contains the maximum isotropic gain of the associated earth station antenna.

##### Nature of information

A group of figures preceded by the + or - sign.

#### **Item 68 - Beamwidth**

Item 68 contains information on the beamwidth of the associated earth station antenna measured at the mean half-power points of the main lobe.

##### Nature of information

Indication in degrees with two decimal positions.

#### **Item 69 - (For internal use by the Bureau)**

Section	Chapter	Page	Rev.
IV	2	20	

#### **Item 70 - Radiation pattern**

The radiation pattern of the associated earth station is indicated by a reference to a pattern described in Item 38.

##### Nature of information

A group of figures and letters.

##### Symbols used

The symbols used are listed under Item 38.

#### **Item 71 - Name of associated space station**

Item 71 contains the name of the associated space station, in the case of the notification of a satellite network (for space-to-space radiocommunications).

##### Nature of information

A group of alphanumeric characters not exceeding 20 characters.

#### **Item 72 - (For internal use by the Bureau)**

#### **Item 73 - Designation of the satellite antenna beam of the associated space station**

The designation of the receiving or transmitting satellite antenna beam of the associated space station.

##### Nature of information

An alphanumeric symbol with up to three characters indicating the designation of the satellite antenna beam.

#### **Item 74 - Type of associated space station**

##### Nature of information

A letter indicating the type of associated space station as follows:

- G if the associated space station is on board a geostationary satellite
- N if the associated space station is on board a non-geostationary satellite.

Section	Chapter	Page	Rev.
IV	2	21	

#### **Item 75 - Serial number of the strap**

##### Nature of information

A three digit number indicating the serial number of the strap showing the connection between a combination of an uplink frequency assignment and a satellite receiving antenna beam and a combination of a downlink frequency assignment and a satellite transmitting antenna beam.

#### **Item 76 - Uplink beam designation**

Item 76 contains the designation of the satellite receiving antenna beam associated with the uplink frequency assignment in the strap.

##### Nature of information

An alphanumeric symbol with up to three characters indicating the designation of the receiving satellite antenna beam.

#### **Item 77 - Downlink beam designation**

Item 77 contains the designation of the satellite transmitting antenna beam associated with the downlink frequency assignment in the strap.

##### Nature of information

An alphanumeric symbol with up to three characters indicating the designation of the transmitting satellite antenna beam.

#### **Item 78 - Uplink Assigned frequency**

Item 78 contains the assigned frequency of the uplink forming part of the strap.

##### Nature of information

A group of figures followed by the symbol K (kiloHertz), M (MegaHertz) or G (GigaHertz).

##### Symbols used

- K for frequencies up to 28 000 kHz inclusive
- M for frequencies above 28 000 kHz up to 10 500 MHz inclusive
- G for frequencies above 10 500 MHz.

Section	Chapter	Page	Rev.
IV	2	22	

#### **Item 79 - Downlink Assigned frequency**

Item 79 contains the assigned frequency of the downlink forming part of the strap.

##### Nature of information

A group of figures followed by the symbol K (kiloHertz), M (MegaHertz) or G (GigaHertz).

##### Symbols used

- K for frequencies up to 28 000 kHz inclusive
- M for frequencies above 28 000 kHz up to 10 500 MHz inclusive
- G for frequencies above 10 500 MHz.

#### **Item 80 - Lowest Equivalent satellite link noise temperature**

Item 80 contains the lowest value of equivalent satellite link noise temperature (ESLNT) associated with the strap.

##### Nature of information

A number representing a value in Kelvins.

#### **Item 81 - Associated Transmission gain**

Item 81 contains the value of transmission gain ( $\gamma$ ) associated with the value of ESLNT given in Item 80.

##### Nature of information

A number with one decimal position, preceded by the + or - sign, representing a value in dB.

#### **Item 82 - Equivalent satellite link noise temperature for highest ratio of transmission gain to ESLNT**

Item 82 contains the value of equivalent satellite link noise temperature (ESLNT) corresponding to the highest ratio of transmission gain to ESLNT associated with the strap.

##### Nature of information

A number representing a value in Kelvins.

Section	Chapter	Page	Rev.
IV	2	23	

#### **Item 83 - Associated Transmission gain**

Item 83 contains the value of transmission gain ( $\gamma$ ) associated with the value of ESLNT given in Item 82.

##### Nature of information

A number with one decimal position, preceded by the + or - sign, representing a value in dB.

#### **Item 84 - Associated earth station name**

Item 84 contains the name of the receiving earth station to which the values given in Items 80 to 83 apply.

##### Nature of information

A group of letters sometimes preceded or followed by a number, the total not exceeding 20 characters.

##### Symbols used

Table No. 4A1 contains the list of standard abbreviations used to compress the station names to 20 characters when the names are longer.

#### **Item 85 - Right ascension of the ascending node**

Item 85 contains the angular separation (in degrees) between the ascending node (point where the orbit crosses the plane of the Equator in the northward sense) and the vernal equinox (first point of Aries).

##### Nature of information

Indication in degrees with two decimal positions, preceded by the sign + or -.

#### **Item 86 - Argument of the perigee**

Item 86 contains the angular separation (in degrees) between the ascending node and the perigee of an elliptical orbit. This parameter defines the orientation of the orbit in the orbit plane.

##### Nature of information

Indication in degrees with two decimal positions, preceded by the sign + or -.

Section	Chapter	Page	Rev.
IV	2	24	

**Item 87 - (For internal use by the Bureau)**

**Item 88 - Line number for a given set of equivalent satellite link noise temperatures and transmission gain values**

Nature of information

A three digit number indicating the line number of a pair of values of equivalent satellite link noise temperatures and their associated values of transmission gain (Items 80 - 83) along with the associated earth station name (Item 84).

**Columns 2D, 13A and 13B**

The explanation of the contents of Columns 2D, 13A and 13B is given in Chapter 1.