



30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022

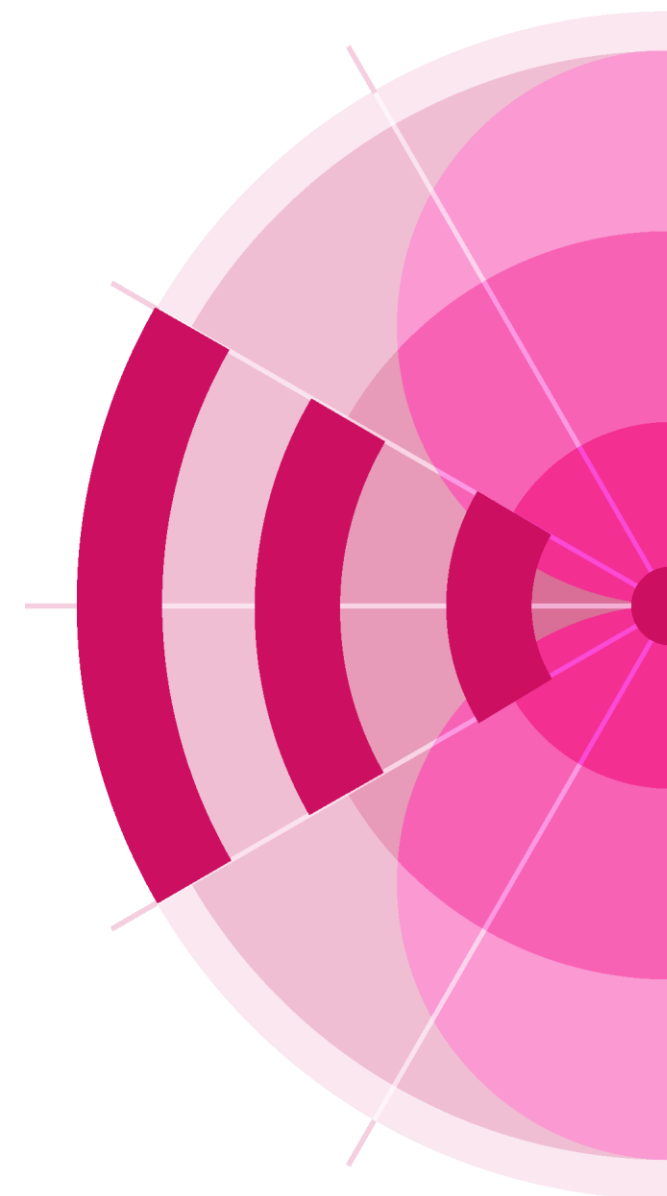
Geneva, Switzerland

**Notification and Recording of Frequency
Assignments
(Non-plan, space services)**

Mehtap Dufour and Akim Falou-Dine

www.itu.int/go/wrs-22

#ITUWRS



Article 11 Notification

- It covers the notification for recording to the Master Register
 - International recognition
- Bringing into use

- It concerns **space stations** (S/S), but also
 - **Earth stations** (E/S) No. **11.2**
 - **Radio astronomy** (RA) stations – No. **11.12**



Overview

Notice creation, validation,
receivability and Part I-S
publication

→ Akim Falou-Dine

Part III-S publication, Return of
notice, Resubmission request

→ Akim Falou-Dine

Technical Examination

→ Mehtap Dufour

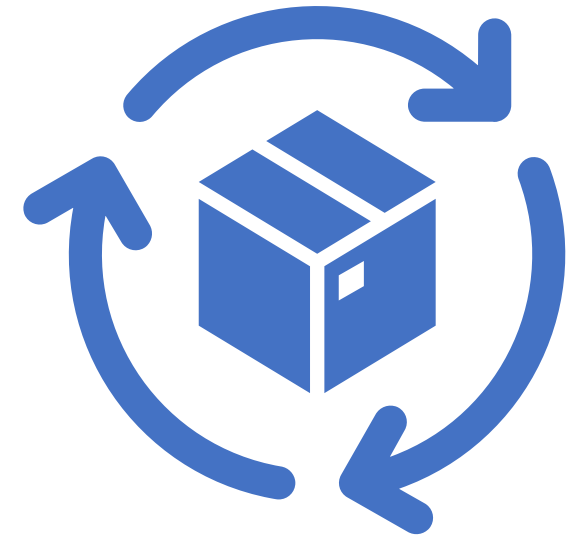
Findings and recording

→ Mehtap Dufour



Notification Notice Lifetime

1. Administration submits Art. 11 notification for recording
➤ **E-submission**
2. Receivability examination (completeness, correctness)
3. Part I-S is published
4. Regulatory examination
5. Favorable findings* -> **Part II-S** publication & **Recording**
6. Unfavorable findings -> **Part III-S** publication
➤ **Notice returned to administration**
7. Returned notices that **can be resubmitted**, will restart the above steps when requesting the application of Nos. **11.32A, 11.41** until the **final recording** takes place



ROP: Application of multiple procedures

- The Radio Regulations prescribe, in some cases, the application of multiple procedures, which have to be applied, for the same stations or satellite network, one after another. In such cases, a notice for a particular procedure is receivable only if the previously applicable procedure has been effected.
- **4.3.1 A notification under Article 11 is not receivable if the coordination request, where applicable, was not received for the satellite network (No. 9.6 refers) and shall be returned to the notifying administration.**
- 4.3.2A notification under Article 11 is not receivable if the advance publication information under Sub-Section IA of Article 9, where applicable, was not received for the satellite network and shall be returned to the notifying administration.

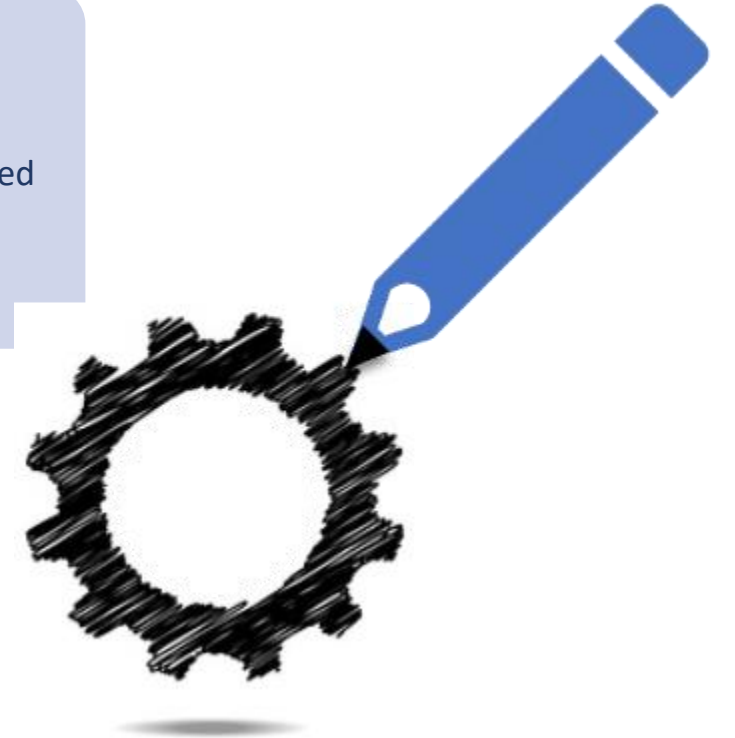


Notification Notice Creation



Creation of Notification from Coordination

- See Exercises on New Features in SpaceCap
- +Date of Bringing into use (see No. 11.44B)
- + List of ADMs with which coordination has been completed
- + List of NETWORKS with which coordination has been obtained (optional)



Manual capturing of all mandatory Appendix 4 information

- Converted notices also need some manual treatment



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In all cases, **BRSIS SpaceVal (and cross-validation)** is the recommended step, to identify problems before submitting the notice to BR



Submission and Receivability of Notices



Notices contain **mandatory** information contained in Annex 2 of Appendix 4 of RR

- ✓ SNS data
- ✓ Graphical data (GIMS)



Submission of information in electronic format

- ✓ E-submissions
Receivability §2 (RoP 2017 Rev.2)



Establishment of Date of Receipt (RoP *Receivability* §3)

- ✓ Completeness and Correctness
 - BRSIS SpaceVal Fatal Errors are the main guideline for completeness checks
 - BRSIS SpaceVal Warnings point to possible correctness issues
- ✓ Dealing with missing information
 - Correspondence exchanges



Notification of frequency assignments under No.4.4

➤ **RoP on No. 4.4 §1.6** : administrations prior to bringing into use any frequency assignment to a transmitting station operating under No. 4.4, shall determine:

a) That the intended use of the frequency assignment to the station under No. 4.4 will not cause harmful interference into the stations of other administrations operating in conformity with the Radio Regulations;

b) What measures it would need to take in order to comply with the requirement to immediately eliminate harmful interference pursuant to No. 8.5.

➤ When **notifying the use of frequency assignments** to be operated under No. 4.4, the notifying Administration **shall provide a confirmation** that it has determined that these frequency assignments meet the conditions referred to above in item a) and that it has identified measures to avoid harmful interference and to immediately eliminate such in case of a complaint.



The Bureau will request this information upon reception of a notice that has not provided the confirmation in a note/attachment (From SpaceCap V9.1 no need to send a note)





Notification of frequency assignments under No.4.4 (SpaceCap V9.1)

C3a. Assigned Frequency Bandwidth (kHz)

No Sensors
 Active Sensors
 Passive Sensors

C2c. Frequency assignments are filed under No.4.4

BR38 For use in accordance with Resolution 163/164

Notice Station Beam Strapping

Notice Id: 122500103 Administration: B Status: 01 Date: 02/

A1a. Identity of the Satellite Network **B-SAT-2N-1**

A4a. For GeoStationary Satellites Only

1. Nominal Orbital Longitude Degrees E/W

2. Longitudinal tolerance (degrees)
a. To West b. To East

2c. Inclination Excursion °

BR108. Indication under No. 11.41.2 that efforts have been made to effect coordination with those administrations whose assignments were the basis of the unfavourable findings under No. 11.38, without success	<input checked="" type="radio"/> Yes <input type="radio"/> No
A16a. Commitment to meet off-axis power limitations (applicable bands 12.75-13.25 GHz, 13.75-14.5 GHz and 29.5-30 GHz)	<input type="radio"/> Yes <input checked="" type="radio"/> No
A17a. Commitment to meet power-flux density limits (applicable bands 1164-1215 MHz)	<input checked="" type="radio"/> Yes <input type="radio"/> No
A18a. Commitment of aircraft earth station (applicable bands 14-14.5 GHz)	<input type="radio"/> Yes <input checked="" type="radio"/> No
A16c. Commitment to meet separation distance of No. 5.509E and PFD limits of 5.509D	<input type="radio"/> Yes <input checked="" type="radio"/> No
A19b. Commitment in accordance with resolves 1.5 of Res 156	<input type="radio"/> Yes <input checked="" type="radio"/> No
A20a. Commitment of conformity with RR and Res 169	<input type="radio"/> Yes <input checked="" type="radio"/> No
A21a. Commitment to follow the procedures in resolves 4 of Res 169 upon receipt of a report of unacceptable interference	<input type="radio"/> Yes <input checked="" type="radio"/> No
A22a. Commitment of conformity with pfd limits in Part II of Annex 3 to Res 169	<input type="radio"/> Yes <input checked="" type="radio"/> No
BR109. Confirmation that the frequency assignments which operate under No. 4.4 will meet the conditions referred to in RoP 4.4 §1.6 a) and that measures have been identified to avoid harmful interference and to immediately eliminate such in case of a complaint	<input checked="" type="radio"/> Yes <input type="radio"/> No



Administration Notes and Attachments

Notices containing steerable beams need to comply with RoP 21.16 and in particular provide the information in §3 b)

Notes specifying the method to meet those limits need to be provided during the notification step

Graphical data (GIMS) and other notes from the previous stage (API or CR/C) need to be provided again

Coordination agreements **are to be captured in mdb**

Alternatively **an Administration may request BR to reuse these data** from the previous stage (API or CR/C)

Alternatively **an Administration may request BR to reuse these data** from the previous stage (API or CR/C)

How to submit information related to No.21.16 in Space V9.1

➤ 3 Possibilities

1) Frequency band subject to No. **21.16** -Rules of Procedure to be applied -Annex 1 method will be used to meet limits

B3b1b - Method required in RoP 21.16

- Apply RoP No. 21.16 power flux-density (pfd) limits to steerable beams
 - Limits will be met by applying the method in Annex 1 to RoP No. 21.16
 - Limits will be met by applying other method in attachment No.

2) Frequency band subject to No. **21.16** -Rules of Procedure to be applied –Method in attachment to meet the limits

B3b1b - Method required in RoP 21.16


- Apply RoP No. 21.16 power flux-density (pfd) limits to steerable beams
 - Limits will be met by applying the method in Annex 1 to RoP No. 21.16
 - Limits will be met by applying other method in attachment No.

3) Frequency band subject to No. **21.16**- Do not wish for Rules of Procedure to be applied

B3b1b - Method required in RoP 21.16

- Apply RoP No. 21.16 power flux-density (pfd) limits to steerable beams

Part I-S publication



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS BUREAU DES RADIOCOMMUNICATIONS	INTERNATIONAL TELECOMMUNICATION UNION RADIOCOMMUNICATION BUREAU	UNIÓN INTERNACIONAL DE TELECOMUNICACIONES OFICINA DE RADIOCOMUNICACIONES
		© I.T.U.
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	CANSAT-50	PARTIE PART PARTE
		I-S
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA
		2814 / 01.03.2016
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	CAN	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL
		107.3 W
		NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN
		115500210 / 114500101
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL		10.04.2015

Notifications reçues au titre de		Notifications received under		Notificaciones recibidas en virtud de lo dispuesto en	
X	Article 11 du Règlement des radiocommunications	X	Article 11 of the Radio Regulations	X	Artículo 11 del Reglamento de Radiocomunicaciones
	Article 5 des Appendices 30 et/ou 30A		Article 5 of Appendices 30 and/or 30A		Artículo 5 de los Apéndices 30 y/o 30A
	Article 8 de l'Appendice 30B		Article 8 of Appendix 30B		Artículo 8 del Apéndice 30B

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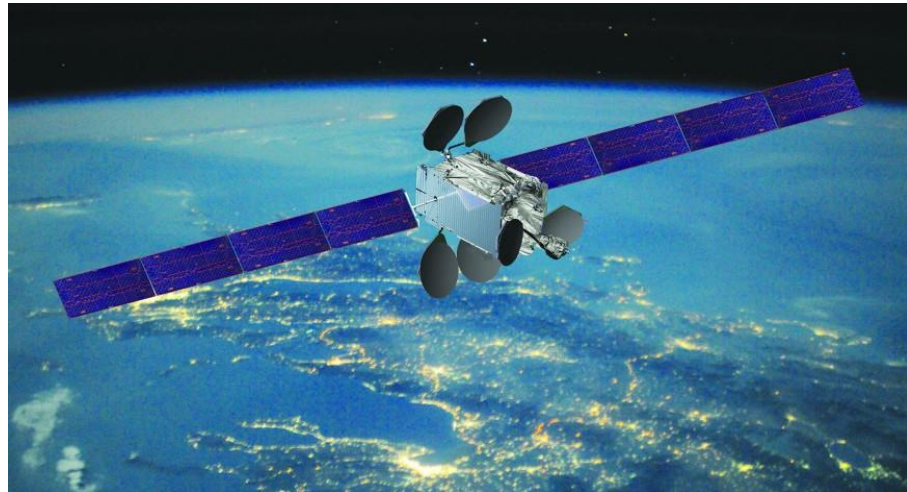
✓ Can be found in the BR IFIC publication

A few hints...

- Ensure that an **appropriate explanation** is provided when **fatal errors** were not resolved
- Plan for complete notice of the satellite network
 - Adding at a later stage a few associated E/S will result into a MOD and extra cost
- MODs are more involved transactions that BR will be happy to provide assistance
 - Careful when modifying station-level data of recorded networks as this will very likely result in reexamining also the recorded network
 - The same applies for beam-level data of recorded beams

Notice Creation, Validation

Technical Examination



Findings and Recording

Part III-S, Return of Notice,
Resubmission



Part III-S, Return of Notice, Resubmission



Part I-S: Information received for
notification

After technical examination
findings are given

Part II-S : if the finding is **favourable**

Part III-S : if the finding is **unfavourable**



RESUBMISSIONS

Unfavourable findings under No. 11.32/11.32A

- ✓ **No. 11.46** is applicable
 - The resubmission will retain the original date of submission, unless the resubmission is received more than 6 months after the date of which the original submission was returned
 - **11.46.1.** Reminder sent by the Bureau 4 months from the date of the return letter if the resubmitted notice is not received (**WRC-19**)


- ✓ In other words, important to resubmit within 6 months to retain the original date of submission





RESUBMISSIONS NOT APPLICABLE

Unfavourable
finding under
No. 11.31

- ✓ **No. 11.46 is not applicable** 
- ✓ Will have a new date of receipt upon resubmission



RESUBMISSIONS NOT APPLICABLE

Notice Id:118512002

Group Id:
118627894

TSUM Requested by: N010R		Date: 04.12.2018 4:34:15 PM		DB: JF1C2854.MDR		Plan id:		Notice type: N0N0EQ	
A	A1a Sat. Network	X-SAT	A1f1 Notif. adm.	SNG	A1f3 Inter. sat. org.	BR1 Date of receipt	20.02.2018	BR20 BR IFIC no.	2884
BR6a/BR6b Id. no.		118512002	11.2		N	BR2 Adm. serial no.		BR1	E
Date of receipt of API		18.04.2011		Special Section 1		No.		Special Section 3	
Special Section 1		No.		No.		Special Section 3		No.	
Notes									
Compare id.	Records	Structures	Frequencies	Emissions	Assoc. Estns	Assoc. Sstns	Provisions	Publications	Findings
BR7a/BR7b Group id. 118627894 BR1 Date of receipt 20.02.2018 C2c RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 163/164									
A2a Date of bringing into use		20.04.2011		A2b Period of valid.		10		A3a Op. agency 014 A3b Adm. resp. A BR16 Value of type C8b	
BR62 Expiry date for bringing into use		18.04.2018		BR63 Confirmed date of bringing into use		20.04.2011		BR64 Date of receipt of 1st Res49	
BR14 Special Section									
C4a Class of station		ER		C3a Assigned freq. band		300		B4b5 Peak of pfd	
C4b Nature of service		CV		C6a Polarization type		CR		C6b Polarization angle	
C8d1 Max. tot. peak pwr.		5		C8d2 Contiguous bandwidth					
C11a1 Service area no.				C11a2 Service area				C11a3 Service area diagram 4	
A5/A6 Coordinations/Agreements									
C2a1 Assigned frequency									
2210.7692		MHz							
A13 Ref. to Special Sections		API/A/2935		C7a Design. of emission		C8a1/C8b1 Max. peak pwr		C8a2/C8b2 Max. pwr dens.	
				1 300R61DXN		5		-46	
								C8c1 Min. peak pwr -20	
								C8c2 Attch.	
								C8c3 Min. pwr dens. -72	
								C8c4 Attch.	
								C8e1 C/N ratio 10	
								C8e2 Attch.	
C10b1 Assoc. earth station id.		C10b2 Type		C10c1 Geographical coord.		C10c2 Ctry		C10d1/C10d2 Cls. / Nat.	
CRISP-SNG		S		103E46 54 01N17 32		SNG		1 TR CV	
								C10d3 Max. iso. gain 40	
								C10d4 Bmwth 1.49	
								C10d6 Noise temp. 171	
								C10d7 Ant. diameter 6.1	
C10d5a Co-polar antenna pattern									
C10b1 Assoc. earth station id.		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C	
CRISP-SNG								Coef. D	
								Phi1	
								Co-polar rad. diag. 3	
Findings		2D Date of protection		13A Conformity with RR		X- -- --		13B Prov. X/21.16	
13C Remarks								13B2 Remarks	
								13B3 Date of Review	





PART III-S PUBLICATION



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE	X-SAT	PARTIE PART PARTE	III-S
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2884 / 27.11.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	SNG	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			20.02.2018

Assignations de fréquence retournées à l'administration notificatrice au titre de		Frequency assignments returned to the notifying Administration under		Asignaciones de frecuencia devueltas a la Administración notificante en virtud del	
X	Article 11 du Règlement des radiocommunications	X	Article 11 of the Radio Regulations	X	Artículo 11 del Reglamento de Radiocomunicaciones
	Article 5 des Appendices 30 et/ou 30A		Article 5 of Appendices 30 and/or 30A		Artículo 5 de los Apéndices 30 y/o 30A
	Article 8 de l'Appendice 30B		Article 8 of Appendix 30B		Artículo 8 del Apéndice 30B

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RESUBMISSION APPLICABLE

Notice Id:115500228

SRK6a/SRK6d Id.no.		115500228		SRK3a/SRK3d Provision reference		11.2		M		SRK2 Adm.	
L2a7 Assigned frequency											
792b		MHz		796b		MHz		8022		MHz	
A73 Ref. to Special Sections			L7a Design. of emission			L8a7/L8a7		L8a2/L8a2		L8a7	
API/A /5513			1 1000G70--			15.2		-54.7		-0.7	
CR/C /2566			2 36M0G70--			20.8		-54.7		4.8	
			3 2800GXX--			8.3		-54.7		-7.7	
			4 384KG70--			1.1		-54.7		-14.9	
			5 32X0G70--			2.0		-54.7		-25.7	
L7007 Assoc. earth station id.		L7002 Type		L7007 Geographical coord.		L7002 Utry		L7007/L7002 Cls. / Nat.		L7003 Max. iso. gain	
TYPICAL X7.2 METER		T						I TC CU		53.7	
										L7004 Bmwidth	
										0.37	
										L7007 Ant. diam	
L1000a Co-polar antenna pattern											
L7007 Assoc. earth station id.		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C		Coef. D	
TYPICAL X7.2 METER		REC-580-b									
Findings		20 Date of protection		734 Conformity with RR		A- M- --		L8a7 Provision			
736 Remarks											
Page no.		16		IFIL I		2820		Part		3	
Update date		29.09.2016		Finding requir							

First Submission, No. 11.32A requested!

Return of Notice Letter

✓ Dispatch date:

Sets the **six months deadline** to request **No. 11.46** resubmission, when applicable



Radiocommunication Bureau (BR)

Our Ref.: 11SG(SPR)O-2016-003297 **Geneva, 7 September 2016**

Contact: Attila Matas
Telephone: +41 22 730 6105
E-mail: attila.matas@itu.int

Ministry of Information and Communications (MIC)
18, Nguyen Du Street
VN - HANOI, 10000
Viet Nam

For your reply:
Fax: +41 22 730 5785
E-mail: BRmail@itu.int

Faxes: +84 4 35564930
+84 4 35564916

Subject: Return of notice for the VIETSAT-132 satellite network

Dear Madam/Sir,

The notice of the subject satellite network or the part of it with frequency assignments which has been given an unfavourable finding is returned to your Administration in accordance with the procedure prescribed in Article 11 of the Radio Regulations. The reason for the unfavourable finding is explained below by an X in the square opposite the appropriate text.

Please note that the printed copy of the satellite network summary is no longer enclosed with this communication. However, a detailed printout of the satellite network characteristics and its findings can be generated from the BRIFIC mentioned in paragraph 1 of the Remarks. Detailed instructions for printing the related information may be found at: <http://www.itu.int/en/ITU-R/space/Documents/part3s.pdf>.

Yours faithfully,

Jian Wang,
Chief a.i., Space Services Department

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Tel: +41 22 730 5111 • Fax: +41 22 733 7256 • E-mail: itu@mail@itu.int • www.itu.int • www.itu150.org



Return of Notice Letter - summary

-2/7-

Enclosures

Finding(s) unfavourable with respect to No. 11.31 (see Remarks overleaf).
The notice is returned according to No. 11.36¹.

Finding(s) unfavourable with respect to No. 11.32 (see Remarks overleaf).
The notice is returned according to No. 11.37².

Finding(s) unfavourable with respect to No. 11.32A or 11.33 (see Remarks overleaf).
The notice is returned according to No. 11.38².

Non-compliance with No. 9.1 (see Remarks overleaf).

IMPORTANT:
¹ Please note that a notice returned under No. 11.36 cannot be resubmitted under No. 11.46. If the notice is submitted again, the notice will receive a new date of receipt and will be subject to cost recovery fees.
² In accordance with No. 11.46, a notice return under No. 11.37 or No. 11.38, according to the case, has to be resubmitted within six months from the date of the present letter in order to keep its original date of receipt.
Any resubmitted notice which is received by the Bureau more than six months after the date of this letter shall be considered as a new notification with a new date of receipt (see No. 11.46) and will be subjected to cost recovery fees.



Cannot be resubmitted!



Can be resubmitted!



Can be resubmitted!



Return of Notice Letter - Tables

1. The finding has been promulgated in Part III-S of BRIFIC No. 2822 of 21 June 2016.
2. The Bureau has examined the notice under No. **11.32A** as requested by your Administration and the frequency assignments mentioned in Table 2 have been given an unfavourable finding under No. **11.32A** and are being returned to your Administration under No. **11.38**.

Table 2

Beam	R/E	Frequency assignment group ID	Administrations having assignments that resulted in unfavourable finding under No. 11.32A (No. 9.7)
TC1	R	115691455	CHN LUX RUS
TC1	R	115691456	CHN LUX RUS
TCK1	R	115691336	CHN RUS
TCK2	R	115691337	CHN RUS
UK2R	R	115691321	AUS CHN
UK2R	R	115691322	CHN
UK2R	R	115691323	CHN
UK2R	R	115691324	CHN
UK2R	R	115691325	CHN

The correspondence includes ***explicative text*** to guide Administrations through the steps it needs to follow in order to resubmit



Preparing the Response to the Return Letter

Please Use the Resubmission wizard (in SpaceCap and e-submission) to sent your resubmission notice:

As of 1 July 2022, the Bureau will only take into account coordination agreement status information captured in the notice and will cease taking into account any additional coordination agreement status information provided in cover letters in the examination of the AP4 notice submitted for notification.

- Notice will be created by retrieving the information contained in the corresponding notification published in the Part III-S.
- Administrations can then update coordination agreements with respect to affected administrations and networks.
- In the case there is no update of coordination agreements when resubmitting a notice: No need to use SpaceCap, Please use e-submission.
- In the case of a resubmission under No. **11.41**, the indication related to No. **11.41.2** should be provided using SpaceCap as shown below (**new field in SpaceCap V9.1**)



When No. 11.46 applies, remember the six months deadline to respond!





Resubmitting after six months

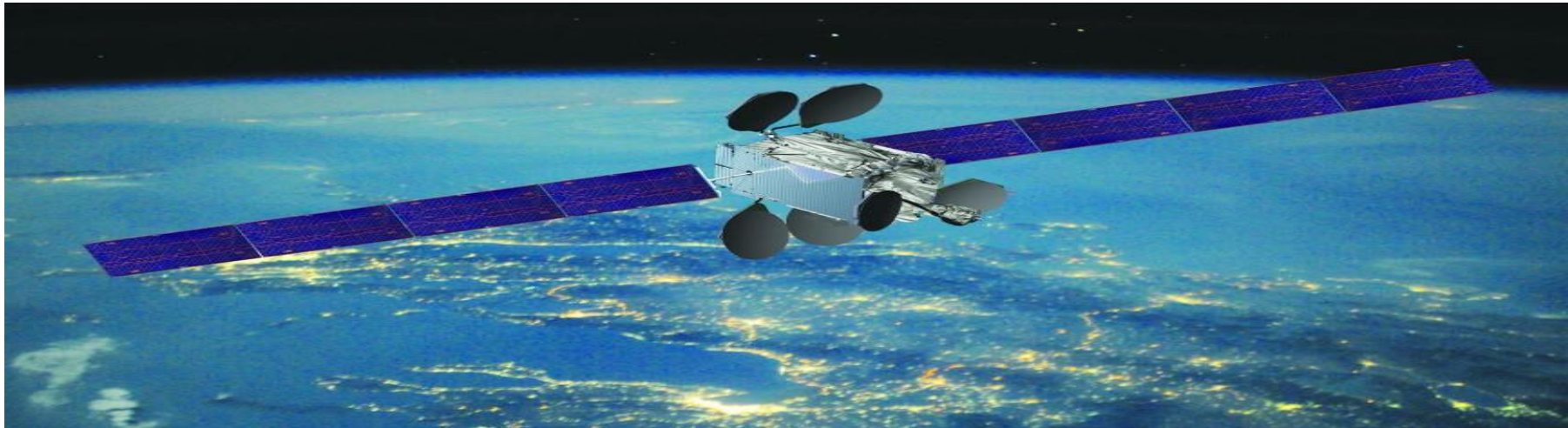


Any resubmitted notice which is received by the Bureau more than six months after the date of this letter shall be considered as a new notification with a new date of receipt (see No. 11.46) and will be subjected to cost recovery fees.



In addition, the Bureau would like to highlight that if this notice is also received beyond the seven-year regulatory period as stipulated in No. 11.44.1, the notice will not be receivable.

Technical Examination



Findings and Recording



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Examination
under No.
11.31 (1)

Art 5

- *compliance with table of frequency allocation including footnotes*

**Art 21
Sect III**

- *power limits of earth stations are complied*

**Art 21
Sect V**

- *limits of power flux density from space stations*



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EXAMINATION UNDER NO. 11.31 (2)

**Article 22
Sect III**

- **station keeping of space stations**

**Article 22
Sect IV**

- pointing accuracies of antenna on geostationary satellites

**Article 22
Sect VI**

- earth station off-axis power limitations to fixed satellite service

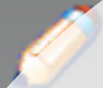
Examination under No. 11.31


**Conformity with Table of
Frequency Allocations under
Art. 5**


**Other relevant provisions
(Rules of Procedure)**

- **Footnotes, RESs, RECs**
- **Successful application of No. 9.21**
- **Articles 21 to 57 (Space → 21,22,23)**

Publications

Create Doc. 

Ntc. Explorer 

Search 

Create Documents



AP4/II & AP4/III

122500070 / MAYA-6 /


No.

11.31 Example Findings

Print Selection

- TSUM Internal  Filter Beams/Freq.
- Legend
- Graphics 
- Coord. info.
- Cost Recovery
- Line spacing
- Partial merge

 **IFIC DVD-ROM**

- Network data in transaction (CR/C)
 - Legend
- Last Special Section published 
 - Legend
 - Remarks and graphics

Current Database: C:\BR_SOFT\SRS_DB\srs_all.test_v91.20220927\srs_all.mdb

 Create Doc.



- Space Pub
- Notice Id: 122500070

No. 11.31 Example Findings

Notice Id: 122500070
 : MAYA-6
 Beam: UA
 Emi/Rcp :R
 Gr. Id: 122649240
 Column 13 A1

TSUM Requested by: RR1503 Date: 20.08.2022 09:21:58 DB: RR1503.MDA Plan Id: 122500070 Notice type: notice

A1a Sat. Network MAYA-6 A1f1 Nav. appl. PHL A1f2 Inter. sat. org. BR1 Date of receipt 19.04.2022 BR20 BR IFIC no. 2980

BR0a/BR0b Id. no. 122500070 BR3a/BR3b Provision reference 11.2 BR2 Adm. serial no. 04

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B	Co-polar rad. diag.
ND-SPACE			

List of orbital planes
ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR02 Attach. for missing angle alpha/beta

Page no. IFIC I 2977 Part 1 IFIC II/III 2980 Part 2 Update date 09.09.2022 Finding required Cost Rec. Provision

Date of receipt of API 20.08.2021 Flag of bringing into use Flag of different regulatory limit Application of RES35

Special Section 1 No. Special Section 2 No. Special Section 3 No.

Notes

Compare Id. Records Structures Frequencies Emissions Assoc. ESMA Assoc. Satjs Provisions Publications Findings

BR7a/BR7b Group Id. 122649240 BR1 Date of receipt 19.04.2022 C2 RR No. 4.4 BR07 No. 11.43A BR08 For use in accordance with Res 163/164

BR105 Current Milestone BR106 Milestone criteria met BR107 Expiry of the next milestone period

A2a Date of bringing into use as submitted by the Administration 01.06.2022

A2a Date of bringing into use 20.08.2028 A2b Period of valid. 2 A3a Op. agency 306 A3b Adm. resp. A BR16 Value of type C8b X A4b7 Cois-Min. elevation angle

BR03 Expiry date for bringing into use 20.08.2028 BR03 Confirmed date of bringing into use BR04 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station EA C3a Assigned freq. band 14 C5a Noise temperature 600 B4b5 Peak of pti

C4b Nature of service CP C6a Polarization type CR C6b Polarization angle

C11a1 Service area no. C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a7 Assigned frequency

145.825	MHz																
A13	Ref. to Special Sections	C7a	Design. of emission	C8a1/C8b1	Max. peak pwr.	C8a2/C8b2	Max. pwr. dens.	C8c1	Min. peak pwr.	C8c2	Min. pwr. dens.	C8c4	Attach.	C8e1	C/N ratio	C8e2	Attach.
API/A/12905		1	14K0F2D--	18.8		-93		18.8			-93			51.8			

C7b Carrier frequency of the emissions (14K0F2D--)

145.825	MHz																	
C10b1	Assoc. earth station Id.	C10b2	Type	C10c1	Geographical coord.	C10c2	C10d1/C10d2	C10d3	C10d4	C10d7	C8g1	C8g2	C8g3	C8g4	C8g5	C8g6	C8g7	C8g8
S4S-SAT-UPD-GS	S	121E04 05	14N38 59	PHL	1	TA	CP	2.9	60		32.1	6						

C10d5a Co-polar antenna pattern

C10d5a	Assoc. earth station Id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
S4S-SAT-UPD-GS	ND-EARTH							

Findings 2D Date of protection 19.04.2022 13A Conformity with RR A- 13B1 Prov. 13B2 Remarks 13B3 Date of Review A/21.07.2028

13C Remarks

I Sub-column 13A1: Conformity with the Radio Regulations

The symbols used in sub-column 13A1 are as follows:

Preface TABLE 13A1

Symbol	Finding favourable with respect to
A	RR1503
A	No. 11.31



Conformity with Table of Frequency Allocations under Art.5 & Article 21

TSUM Requested by: arr13k Date: 2022-08-22 11:55:21 sar: DB 999 arr13k nds Plan Id: Notice type: 300220

A A1a Sat. Network MAYA-6 A1f Uplink PHL A1f3 Inter. sat. org. BR1 Date of receipt 19.04.2022 BR20 BR IFIC no. 2980

BR0a/BR0b Id. no. 122500070 BR3a/BR3b Provision reference 11.2 N BR2 Adm. serial no. QA B

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B	Co-polar rad. diag.
ND-SPACE			

List of orbital planes

ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR02 Attach. for missing angle alpha/beta

Page no. IFIC I 2977 Part 1 IFIC II/III 2980 Part 2 Update date 09.09.2022 Finding required Cost Rec. Provision

Date of receipt of API 20.08.2021 Flag of bringing into use Flag of different regulatory limit Application of RES35

Special Section 1 No. Special Section 2 No. Special Section 3 No.

Notes

Compare id. Records Structures Frequencies Emissions Assoc. Estms Assoc. Sstms Provisions Publications Findings

BR7a/BR7b Group id. 122649240 BR1 Date of receipt 19.04.2022 C2c RR No. 4.4 BR07 No. 11.43A BR08 For use in accordance with Res 163/164

BR105 Current Milestone BR106 Milestone criteria met BR107 Expiry of the next milestone period

A2a Date of bringing into use as submitted by the Administration 01.06.2022

A2a Date of bringing into use 20.08.2028 A2b Period of valid. 2 A3a Op. agency 306 A3b Adm. resp. 2 BR10 Value of type C8b X A4b7c8b5 Min. elevation angle

BR02 Expiry date for bringing into use 20.08.2028 BR03 Confirmed date of bringing into use BR04 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station EA C3a Assigned freq. band 14 C5a Noise temperature 600 B4b5 Peak of pfo

C4b Nature of service CP C6a Polarization type CR C6b Polarization angle

C11a1 Service area no. C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency

145.825	MHz													
A13	Ref. to Special Sections	C7a	C8a1/C8b1	C8a2/C8b2	C8c1	C8c2	C8c3	C8c4	C8e1	C8e2				
API/A/12905		Design. of emission	Max. peak pwr.	Max. pwr.dens.	Min. peak pwr.	Min. pwr.dens.	Min. pwr.dens.	C/N ratio						
		1 14K0F2D--	18.8	-93	18.8	-93	51.8							

C7b Carrier frequency of the emissions (14K0F2D--)

145.825	MHz													
C10b1	C10b2	C10c1	C10c2	C10d1/C10d2	C10d3	C10d4	C10d7	C8g1	C8g2	C8g3				
Assoc. earth station id.	Type	Geographical coord.	Ctx	Cls. / Nat.	Max. iso. gain	Bandwidth	Ant. diameter	Max. agr. pwr.	Aggr. bandwidth	Transp. bandwidth - Aggr. bandwidth				
B4B-SAT-UPD-GS	S	121E04 05 14N38 59	PHL	1 TA CP	2.9	60		32.1	6					

C10d5a Co-polar antenna pattern

C10b1	Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
B4B-SAT-UPD-GS	ND-EARTH							

Findings 2D Date of protection 19.04.2022 13A Conformity with RR 2 --- --- 13B1 Prov. 13B2 Remarks 13B3 Date of Review 2/21.07.2028

13C Remarks



144-146	AMATEUR AMATEUR-SATELLITE 5.216
---------	---------------------------------------

Conformity with Table of Frequency Allocations under Art.5 & Article 21

TSNM Requested by: NUTDR Date: 05.11.2019 14:45 DB: 395 ALL.MDE Plan Id: Notice type: GRS

A1a Sat Network NSS-G4-26 A1f1 Notif adm HOL A1f2 Inter. sat. org. BR1 Date of receipt 25.06.2019 BR20 BR IFIC no. 2911

BR6a/BR6b Id. no. 119500154 BR3a/BR3b Provision reference 11.2 BR2 Adm. serial no. TA5R

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16 Attach. no.

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B	Co-polar rad. diag.

Page no. 1 IFIC I 2901 Part 1 IFIC III/II 2911 Part 2 Update date 12.12.2019 Finding required Cost Rec. Provision

Date of receipt of API 04.07.2012 Flag of bringing into use C

Special Section 1 No. Special Section 2 No. Special Section 3 No.

Notes

Compare id. Records Structures Frequencies Emissions Assoc. Estns Assoc. Sstns Provisions Publications Findings

BR7a/BR7b Group id. 119684560 BR7 Date of receipt 25.06.2019 C2c RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 163/164

A2a Date of bringing into use 26.05.2019 A2b Period of valid. 50 A3a Co. agency 014 A3b Adm. resp. A BR16 Value of type C8b

BR62 Expiry date for bringing into use 04.07.2019 BR63 Confirmed date of bringing into use 26.05.2019 BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station EV C3a Assigned freq. band 200000

C4b Nature of service CV C6a Polarization type M C6b Polarization angle

C8d1 Max. tot. peak pwr. 33.8 C8d2 Contiguous bandwidth 200000

C11a1 Service area no. 1 C11a2 Service area

A5/A6 Coordinations/Agreements 9.7 0

C2a1 Assigned frequency

21.5 GHz	21.7 GHz	21.9 GHz								
A13 Ref. to Special Sections										
API/A/7872										
C7a Design of emission		C8a1/C8b1 Max. peak pwr.	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr.	C8c2 Atch.	C8c3 Min. pwr dens.	C8c4 Atch.	C8e1 C/N ratio	C8e2 Atch.	
1 25M0G7W--		8.7	-65.2	-11.3		-85.2		18		
2 25M0G7W--		24.8	-49.1	4.8		-69.1		18		
3 500RG7W--		7.8	-49.1	-12.2		-69.1		18		

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 City	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bandwidth	C10d6 Noise temp.	C10d7 Ant. diameter	C10d9 Ant. dim. (DGSO)
TYPICAL KA13	T			1 UV CV	33.6	3.84	145		
TYPICAL KA14	T			1 UV CV	43.1	1.28	145		
TYPICAL KA15	T			1 UV CV	53.1	0.36	145		

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYPICAL KA13	REC-580-6						
TYPICAL KA14	REC-580-6						
TYPICAL KA15	REC-580-6						

Findings 2D Date of protection 15.02.2013 13A Conformity with RR A- A- -- 13B1 Prov. 13B2 Remarks 13B3 Date of Review

13C Remarks

Notice Id:
119500154
: NSS-G4-26
Beam: TA5R
Emi/Rcp :E
Identify for
Gr. Id: 119684560
limits of power flux
density from space
stations exceeding
or not?
Column 13 A1



Conformity with Table of Frequency Allocations under Art.5 & Article 21

Frequency band	Service*	Limit in dB(W/m ²) for angles of arrival (δ) above the horizontal plane			Reference bandwidth
		0°-5°	5°-25°	25°-90°	
19.3-19.7 GHz 21.4-22 GHz (Regions 1 and 3) 22.55-23.55 GHz 24.45-24.75 GHz 25.25-27.5 GHz 27.500- 27.501 GHz	Fixed-satellite (space-to-Earth) Broadcasting-satellite Earth exploration-satellite (space-to-Earth) Inter-satellite Space research (space-to-Earth)	-115 ¹⁵	-115 + 0.5(δ - 5) ¹⁵	-105 ¹⁵	1 MHz

PFD EXAMINATION N 119500154 HOL NSS-G4-26 95.00 DEG 0.10 0.10 25/06/2019

TA5R E STEERABLE GAIN MAX: 45.0 DBi POINTING ACC. 0.10 DEG

```

119684560 EV          2D DATE: 25/06/2019 (DV) 26/05/2019 (DB) A-
 21.50000 GHZ      200000 KHZ  EMISS: 25MOG7W--  PEP MAX:  24.8 DBW  PWR DS MAX:  -49.1 DBW/HZ
    PROV: (82) RR 21.16          SRV: BSS, SOS    PROT AREA: ALL WORLD          REF.BW: 1.000 MHZ
    WORST CASE: 158E3608 57N5535/  5.0 RUS    GAIN:  45.0 DB  PFD: -107.4  PFDL: -115.0  PFDX:  7.6  FINDING: N-  X/21.16
 21.50000 GHZ      200000 KHZ  EMISS: 500KG7W--  PEP MAX:   7.8 DBW  PWR DS MAX:  -49.1 DBW/HZ
    PROV: (82) RR 21.16          SRV: BSS, SOS    PROT AREA: ALL WORLD          REF.BW: 1.000 MHZ
    WORST CASE: 158E3608 57N5535/  5.0 RUS    GAIN:  45.0 DB  PFD: -110.5  PFDL: -115.0  PFDX:  4.5  FINDING: N-  X/21.16
 21.70000 GHZ      200000 KHZ  EMISS: 25MOG7W--  PEP MAX:  24.8 DBW  PWR DS MAX:  -49.1 DBW/HZ
    PROV: (82) RR 21.16          SRV: BSS, SOS    PROT AREA: ALL WORLD          REF.BW: 1.000 MHZ
    WORST CASE: 158E3608 57N5535/  5.0 RUS    GAIN:  45.0 DB  PFD: -107.4  PFDL: -115.0  PFDX:  7.6  FINDING: N-  X/21.16
 21.70000 GHZ      200000 KHZ  EMISS: 500KG7W--  PEP MAX:   7.8 DBW  PWR DS MAX:  -49.1 DBW/HZ
    PROV: (82) RR 21.16          SRV: BSS, SOS    PROT AREA: ALL WORLD          REF.BW: 1.000 MHZ
    WORST CASE: 158E3608 57N5535/  5.0 RUS    GAIN:  45.0 DB  PFD: -110.5  PFDL: -115.0  PFDX:  4.5  FINDING: N-  X/21.16
 21.90000 GHZ      200000 KHZ  EMISS: 25MOG7W--  PEP MAX:  24.8 DBW  PWR DS MAX:  -49.1 DBW/HZ
    PROV: (82) RR 21.16          SRV: BSS, SOS    PROT AREA: ALL WORLD          REF.BW: 1.000 MHZ
    WORST CASE: 158E3608 57N5535/  5.0 RUS    GAIN:  45.0 DB  PFD: -107.4  PFDL: -115.0  PFDX:  7.6  FINDING: N-  X/21.16
 21.90000 GHZ      200000 KHZ  EMISS: 500KG7W--  PEP MAX:   7.8 DBW  PWR DS MAX:  -49.1 DBW/HZ
    PROV: (82) RR 21.16          SRV: BSS, SOS    PROT AREA: ALL WORLD          REF.BW: 1.000 MHZ
    WORST CASE: 158E3608 57N5535/  5.0 RUS    GAIN:  45.0 DB  PFD: -110.5  PFDL: -115.0  PFDX:  4.5  FINDING: N-  X/21.16
    
```

Gr. Id: 119684560, 13 A1 : A ?

The screenshot shows the GIBC SNS V9.1 -BETA software interface. At the top, there are menu options: Appendix 7, Appendix 30B, Appendix 30 30A, Tools / Options, PFD/EIRP Earth Station, EFPD, Power Control, FOS, Appendix 8, PFD/EIRP GSO, PFD (space serv.), and PFD/EIRP NGSO. The main window displays 'PFD/EIRP limits applicable to GSO network' with a network selection dropdown set to '119500154 NSS-G4-26'. Below this, there are 'Examination Options' including 'Examination' set to 'Hard Limits', 'Power Control (dBW)' field, and a checked 'Worst Case Only' option. A 'Before "Examination"' section has checkboxes for 'Perform "Before" Comparisons' and 'Appendix 30 Art.4.1.11'. A 'Messages Filter' section shows 'Progress' checked. A message box displays the following text: 'PROGR> Write header row in the output database. PROGR> Compacting output database. PROGR> End of program. PFD calculation finished. 15:56:21.' Below the message box is a 'Calculation Results' section with a file path 'C:\Users\muluk\ITU\BR_SPACE_v9.1\TEX_RESULTS\119500154\PFD_H_2' and buttons for 'Open Database', 'View Log File', 'Open Folder', and 'Open Report'. At the bottom, the 'Version' is '9.1.0.1 Beta PFD/EIRP GSO' with a 'View Notes' button.



Conformity with Table of Frequency Allocations under Art.5 & Article 21

B1a/BR17 Beam designation TA5R **B1b** Steerable **B2** Emi-Rcp E **B3a1** Max. co-polar gain 45 **B3d** Pointing accuracy 0.1
B3b1a Co-polar ant. gain contours diag.
B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16 Attach. no.

B3c1 Co-polar antenna pattern				
Co-polar ref. pattern	Coef. A	Coef. B		Co-polar rad. diag.

BR7a/BR7b Group id. 119684560 **BR1** Date of receipt 25.06.2019 **C2c** RR No. 4.4 **BR97** No. 11.43A **BR98** For use in accordance with Res 163/164

Page / Página / 頁 / ctp. / الصفحة / 9



PART II-S / PART II-S / PARTE II-S / 第II-S部分 / ЧАСТЬ II-S / II-Sء الجزء
A1a Sat. Network NSS-G4-26 **A1f1** Notif. adm. HOL **A1f3** Inter. sat. org. **BR1** Date of receipt 25.06.2019 **BR20/BR21** BR IFIC no./part 2906/2
BR6a/BR6b Id. no. 119500154 **BR3a/BR3b** Provision reference 11.2 **BR2** Adm. serial no. TA5R E

A2a Date of bringing into use 26.05.2019 **A2b** Period of valid. 50 **A3a** Op. agency 014 **A3b** Adm. resp. A **BR16** Value of type C8b
BR62 Expiry date for bringing into use 04.07.2019 **BR63** Confirmed date of bringing into use **BR64** Date of receipt of 1st Res49
BR14 Special Section
C4a Class of station EV **C3a** Assigned freq. band 200000
C4b Nature of service CV **C6a** Polarization type M **C6b** Polarization angle
C8d1 Max. tot. peak pwr. 33.8 **C8d2** Contiguous bandwidth 200000
C11a1 Service area no. 1 **C11a2** Service area **C11a3** Service area diagram

A5/A6 Coordinations/Agreements 9.7 **C2a1** Assigned frequency
 21.5 GHz 21.7 GHz 21.9 GHz

A13 Ref. to Special Sections	C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.
API/A /7872	1 25M0G7W--	8.7	-65.2	-11.3		-85.2		18	
	2 25M0G7W--	24.8	-49.1	4.8		-69.1		18	
	3 500KG7W--	7.8	-49.1	-12.2		-69.1		18	

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwdth	C10d6 Noise temp.	C10d7 Ant. diameter	C10d9 Ant. dim. (DGSO)
TYPICAL KA13	T			1 UV CV	33.6	3.84	145		
TYPICAL KA14	T			1 UV CV	43.1	1.28	145		
TYPICAL KA15	T			1 UV CV	53.1	0.36	145		

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYPICAL KA13	REC-580-6						
TYPICAL KA14	REC-580-6						
TYPICAL KA15	REC-580-6						

Findings 2D Date of protection 15.02.2013 13A Conformity with RR A- A- -- 13B1 Prov. 13B2 Remarks 13B3 Date of Review A/04.06.2019
 13C Remarks

GIBC SNS V9.1 -BETA

Appendix 7 | Appendix 30B | Appendix 30 30A | Tools / Options
 PFD/EIRP Earth Station | EPFD | Power Control | FOS | Appendix 8
 PFD/EIRP GSO | PFD (space serv.) | PFD/EIRP NGSO

PFD/EIRP limits applicable to GSO network
 Network 119500154 NSS-G4-26

Examination Options
 Examination Hard Limits
 Power Control (dBW)
 Worst Case Only

Before "Examination"
 Perform "Before" Comparisons
 Appendix 30 Art.4.1.11

Messages Filter
 Progress Filtering Logging

Message
 PROGR> Write header row in the output database.
 PROGR> Compacting output database
 PROGR> End of program.
 PFD calculation finished. 15:56:21.

Calculation Results
 C:\Users\muluk\ITU\BR_SPACE_v9.1\TEX_RESULTS\119500154\PFD_H_2

Version
 9.1.0.1 Beta PFD/EIRP GSO



Example of **Unfavorable** Findings under No. 11.31/Article 21

PARTIE III-S / PART III-S / PARTE III-S / 第三-S部分 / ЧАСТЬ III-S / III-S الجزء

A A1a Sat. Network **FORTRAN** A1f1 Notif. adm. **CHN** A1f3 Inter. sat. org. BR1 Date of receipt **22.11.2019** BR20/BR21 BR IFIC no./part **2919/3**
 BR6a/BR6b Id. no. **119512038** BR3a/BR3b Provision reference **11.2** N BR2 Adm. serial no. QD1 **E**

C4a Class of station **EC EK ER** C3a Assigned freq. band **1000000** B4b5 Peak of pfd
 C4b Nature of service **CP CV CV** C6a Polarization type **D** C6b Polarization angle
 C8d1 Max. tot. peak pwr. **25** C8d2 Contiguous bandwidth **100000**
 C11a1 Service area no. C11a2 Service area **XAA** C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency

3B	GHz	C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attach.	C8c3 Min. pwr dens.	C8c4 Attach.	C8e1 C/N ratio	C8e2 Attach.
A13 Ref. to Special Sections										
API/A	/12316									
		1 1G00G7W--	22.2	-67.8	2.8		-87.2		25.1	
		2 800MG7W--	22.2	-66.8	2.3		-86.7		25.1	
		3 200MG7W--	20.8	-62.2	0.8				25.1	
		4 100MG7W--	17.8	-62.2					25.1	

C7b Carrier frequency

3B	MHz	C7b Carrier frequency of the emissions (100MG7W--)
38000		-120 11, 21
38000		-120 + 0.75(δ - 5) 11, 21
38000		-105 11, 21
38000		1 MHz

37.5-40 GHz Fixed-satellite (non-geostationary-satellite orbit)

C10b1 Assoc. earth station id. **YPT-QD1** C10b2 Type **T** C10c1 Geographical coord. C10c2 Ctry C10d1/C10d2 Cls. / Nat. **1 TR CV**
2 TR CV
3 TC CP C10d3 Max. iso. gain **62** C10d4 Bmwidth **0.14** C10d6 Noise temp. **170** C10d7 Ant. diameter

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
YPT-QD1	REC-465-5						

Findings **2D** Date of protection 13A Conformity with R **N- -- --** 13B1 Prov. **X/21.16** 13B2 Remarks 13B3 Date of Review
 13C Remarks



GROUP ID: 119800626 CLASS OF STATION: EC/CP EK/CV ER/CV BANDWIDTH: 1000000 KHZ 2D DATE: 20191122 (DR)

ASSIGNED FREQUENCY: 38.00000 GHZ

EMISSION: 100MG7W-- PEP MAX: 17.8 DBW PWR DS MAX: -62.2 DBW/HZ

PROVISION: (18) RR 21.16 SERVICE: SPACE RESEARCH FINDING: N-
 PROT AREA: ALL WORLD ASSOC. EARTH STATION TYPE: T
 ORBIT ID: 0001 INCLIN ANG: 80.0000 DEG MIN OP_HT: 1040.000 KM SAT ALTITUDE: 1040.000 KM
 GAIN: 42.0 DB ARR ANG: 10.0 DEG
 PFD: -100.3 PFDX: 16.0 PFDL: -116.3 REF.BW: 1.000 MHZ

PROVISION: (40) RR 21.16 SERVICE: FIXED-SATELLITE AND MOBILE-SATELLITE FINDING: N-
 PROT AREA: ALL WORLD ASSOC. EARTH STATION TYPE: T
 ORBIT ID: 0001 INCLIN ANG: 80.0000 DEG MIN OP_HT: 1040.000 KM SAT ALTITUDE: 1040.000 KM
 GAIN: 42.0 DB ARR ANG: 10.0 DEG
 PFD: -100.3 PFDX: 16.0 PFDL: -116.3 REF.BW: 1.000 MHZ

PROVISION: (18) RR 21.16 SERVICE: SPACE RESEARCH FINDING: N-
 PROT AREA: ALL WORLD ASSOC. EARTH STATION TYPE: T
 ORBIT ID: 0002 INCLIN ANG: 80.0000 DEG MIN OP_HT: 1040.000 KM SAT ALTITUDE: 1040.000 KM
 GAIN: 42.0 DB ARR ANG: 10.0 DEG
 PFD: -100.3 PFDX: 16.0 PFDL: -116.3 REF.BW: 1.000 MHZ

PROVISION: (40) RR 21.16 SERVICE: FIXED-SATELLITE AND MOBILE-SATELLITE FINDING: N-
 PROT AREA: ALL WORLD ASSOC. EARTH STATION TYPE: T
 ORBIT ID: 0002 INCLIN ANG: 80.0000 DEG MIN OP_HT: 1040.000 KM SAT ALTITUDE: 1040.000 KM
 GAIN: 42.0 DB ARR ANG: 10.0 DEG
 PFD: -100.3 PFDX: 16.0 PFDL: -116.3 REF.BW: 1.000 MHZ

PROVISION: (18) RR 21.16 SERVICE: SPAC FINDING: N-
 PROT AREA: ALL WORLD
 ORBIT ID: 0003 INCLIN ANG: 80.0000 DEG MI KM
 GAIN: 42.0 DB ARR ANG: 10.0 DEG
 PFD: -100.3 PFDX: 16.0 PFDL: -116.3

PROVISION: (40) RR 21.16 SERVICE: FIXE FINDING: N-
 PROT AREA: ALL WORLD
 ORBIT ID: 0003 INCLIN ANG: 80.0000 DEG MT ZM

Unfavorable Findings under No. 21.16

Power Control | Coordination 9.7B | PFD Earth-to-space | New PFD (NGSO)

Network: 119512038 FORTRAN [Start] [Cancel]

Messages Filter:
 Progress
 Warning
 Debug

Examination: Hard limits

Message
 PROGR> ----> orbit: 9, op_ht: 1040, apogee: 1040, incln_ang: 80; (40) RR 21.16; in z
 PROGR> ----> orbit: 10, op_ht: 1040, apogee: 1040, incln_ang: 80; (40) RR 21.16; in
 PROGR> ----> orbit: 11, op_ht: 1040, apogee: 1040, incln_ang: 80; (40) RR 21.16; in
 PROGR> ----> orbit: 12, op_ht: 1040, apogee: 1040, incln_ang: 80; (40) RR 21.16; in
 PROGR> ----> orbit: 13, op_ht: 1040, apogee: 1040, incln_ang: 80; (40) RR 21.16; in
 PROGR> Closing SRS database connection
 PROGR> Calculation has been done successfully.
 PROGR> Export results to output database completed
 PROGR> Write header row in the output database.
 PROGR> End of program.
 PFD for Non GSO calculation finished: 18:27:03

37.5-40 GHz	Fixed-satellite (non-geostationary-satellite orbit)	-120 11, 21	-120 + 0.75(δ - 5) 11, 21	-105 11, 21	1 MHz
-------------	---	-------------	---------------------------	-------------	-------

Open Database | View Log File | Open Folder | Open Report File



Examination under No. 11.31 FOOTNOTES

Conformity with Table of Frequency Allocations under Art. 5

3 600-4 800 MHz		
Allocation to services		
Region 1	Region 2	Region 3
3 600-4 200 FIXED FIXED-SATELLITE (space-to-Earth) Mobile	3 600-3 700 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.434 Radiolocation 5.433	3 600-3 700 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.435
	3 700-4 200 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	
4 200-4 400	AERONAUTICAL MOBILE (R) 5.436 AERONAUTICAL RADIONAVIGATION 5.438 5.437 5.439 5.440	
4 400-4 600	FIXED MOBILE 5.440A	
4 600-4 800	FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A	

5.434 In Canada, Colombia, Costa Rica and the United States, the frequency band 3 600-3 700 MHz, or portions thereof, is identified for use by these administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the state of coordination the provisions of



Other relevant provisions (Rules of Procedure)

Footnotes, RESs, RECs

- Successful application of No. 9.21
- Articles 21 to 57 (Space → 21,22,23)



Examination under No. 11.31, No.9.21

TYPICAL 2		T			1	TT	CO	45	0.9						
C10d5a Co-polar antenna pattern															
C10b1 Assoc. earth station id.		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C		Coef. D		Phi1		Co-polar rad. diag.	
TYPICAL 1		AP8													
TYPICAL 2		AP8													
Findings		2D Date of protection		13A Conformity with RR		N- -- --		13B1 Prov.		8.5		13B2 Remarks		Y	
13C Remarks															
BR7a/BR7b Group id.		122612248		BR1 Date of receipt		12.01.2022		C2c RR No. 4.4				BR97 No. 11.43A		BR98 For use in accordance with Res 163/164	
A2a Date of bringing into use		14.09.2021		A2b Period of valid.		40		A3a Op. agency		503		A3b Adm. resp.		B	
BR62 Expiry date for bringing into use		03.06.2022		BR63 Confirmed date of bringing into use		14.09.2021		BR64 Date of receipt of 1st Res49							
BR14 Special Section															
C4a Class of station		ET		C3a Assigned freq. band		4000		C5a Noise temperature		5000					
C4b Nature of service		CO		C6a Polarization type		CR		C6b Polarization angle							
C11a1 Service area no.		3		C11a2 Service area											
A5/A6 Coordinations/Agreements		9.21/A		O		PNG									
		9.21/B		O		ARM ARS B BHR BLR CAN CZE D E EGY FIN HOL HRV ISR KAZ LTU MRC PAK S SUI TUR UKR									
		9.21/C		O											
		9.7		O											
1795.752		MHz													
A13 Ref. to Special Section		API/A/10524 CR/C/3993													
C10b1 Assoc. earth station id.															
TYPICAL 1															
TYPICAL 2															
C10b1 Assoc. earth station id.		AP8													
Findings		2D Date of protection		13A Conformity with RR		A- A- --		13B1 Prov.		5.386		13B2 Remarks		H	
13C Remarks															

Question:
 If the procedure of No. 9.21 was not successfully completed with the administration concerned. So, is it unfavourable?
 X/9.21 correct?
 If not, under which provision?




Examination under No. 11.31, No.9.21

PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ЧАСТЬ II-S / II-S-جزء											
A A1a Sat. Network [992-3A]		A1f1 Notif. adm. [USA]		A1f3 Inter. sat. org.		BR1 Date of receipt [12.01.2022]		BR20/BR21 BR IFIC no./part [2969/2]			
BR6a/BR6b Id. no. [122500006]		BR3a/BR3b Provision reference [11.2]		BR2 Adm. serial no.				UL2 [R]			
TYPICAL 2		T		1 TT		CO		45		0,9	
C10d5a Co-polar antenna pattern											
C10b1 Assoc. earth station id.		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C		Coef. D	
TYPICAL 1		AP8								Phi1	
TYPICAL 2		AP8								Co-polar rad. diag.	
Findings		2D Date of protection		13A Conformity with RR [S- -- --]		13B1 Prov. [8.5]		13B2 Remarks [Z]		13B3 Date of Review	
13C Remarks											
BR7a/BR7b Group id. [122612248] BR1 Date of receipt [12.01.2022] C2c RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 163/164											
A2a Date of bringing into use [14.09.2021]		A2b Period of valid. [40]		A3a Op. agency [503]		A3b Adm. resp. [B]		BR16 Value of type C8b			
BR62 Expiry date for bringing into use [03.06.2022]		BR63 Confirmed date of bringing into use [14.09.2021]		BR64 Date of receipt of 1st Res49							
BR14 Special Section											
C4a Class of station [ET]		C3a Assigned freq. band [4000]		C5a Noise temperature [5000]							
C4b Nature of service [CO]		C6a Polarization type [CR]		C6b Polarization angle							
C11a1 Service area no. [3]		C11a2 Service area									
A5/A6 Coordinations/Agreements		9.21/A		O FNG							
		9.21/B		O							
		9.21/C		O		ARM ARS B BHR BLR CAN CZE D E EGY FIN HOL HRV ISR KAZ LTU MRC PAK S SUI TUR UKR					
		9.7		O							
		V/11.31.1/C		V		CUB E/CNR F G IRN UAE UZB					
C2a1 Assigned frequency											
1795.752 MHz		1839.795 MHz									
A13 Ref. to Special Sections		C7a Design. of emission		C8a1/C8b1 Max. peak pwr		C8a2/C8b2 Max. pwr dens.		C8c1 Min. peak pwr		C8c2 Attach.	
API/A/10524		1 4800G7D--		27		-39		25		-41	
CR/C/3993										C8c3 Min. pwr dens. -41	
										C8e1 C/N ratio 15	
										C8e2 Attach.	
C10b1 Assoc. earth station id.		C10c1 Geographical coord.		C10c2 Ctry		C10d1/C10d2 Cls./Nat.		C10d3 Max. iso. gain		C10d4 Brmwdth	
TYPICAL 1		T				1 TT CO		47		0,7	
TYPICAL 2		T				1 TT CO		45		0,9	
C10d5a Co-polar antenna pattern											
C10b1 Assoc. earth station id.		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C		Coef. D	
TYPICAL 1		AP8								Phi1	
TYPICAL 2		AP8								Co-polar rad. diag.	
Findings		2D Date of protection [03.12.2015]		13A Conformity with RR [A- A- --]		13B1 Prov. [5.386]		13B2 Remarks [Z]		13B3 Date of Review	
13C Remarks											

Symbol used in provision column	Description
V/11.31.1	The use of this frequency assignment is subject to the application of the procedure of No. 9.21. In the process of application of this procedure the administration of the country designated by the symbol inserted in the "adm" column of the coordination table A5/A6 has formally objected to the proposed use. The Bureau has therefore concluded that the application of the procedure of No. 9.21 was not successfully completed with the administration concerned. A favourable Finding (13A1) was nevertheless formulated on the understanding that no harmful interference shall be caused to the services of or protection claimed from the administration concerned.
V/11.31.1/A V/11.31.1/B V/11.31.1/C	The use of this frequency assignment is subject to the application of the procedure of No. 9.21. In the process of application of this procedure the administration of the country designated by the symbol inserted in the "adm" column of the coordination table A5/A6 has formally objected to the proposed use in relation to its GSO networks (V/11.31.1/A), Non-GSO networks (V/11.31.1/B) and terrestrial stations (V/11.31.1/C). The Bureau has therefore concluded that the application of the procedure of No. 9.21 was not successfully completed with the administration concerned. A favourable Finding (13A1) was nevertheless formulated on the understanding that no harmful interference shall be caused to the services of or protection claimed from the administration concerned.

After No. 11.31 Examination



When No. 11.31 finding is favourable,
the assignment shall be recorded in
the Master Register,

or examined further to Nos. 11.32 to
11.33, as appropriate

Examination under No. 11.32

The requirement of all forms of coordination should be completed

Findings will be based on information available on the A5/A6 boxes

C11a1 Service area no.	<input type="text" value="1"/>	C11a2 Service area	<input type="text"/>
A5/A6 Coordinations/Agreements	9.7	O	F G HOL J KOR LUX MLA
	V/11.32A	V	CAN GRC S UAE
	X/11.32A	X	AUS NOR QAT USA
			C2a1 Assigned frequency

A5/A6 boxes



Examination under No. 11.32

TABLE 5-1 (Rev.WRC-15)
Technical conditions for coordination
(see Article 9)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.7 GSO/GSO	A station in a satellite network using the geostationary-satellite orbit (GSO), in any space radiocommunication service, in a frequency band and in a Region where this service is not subject to a Plan, in respect of any other satellite network using that orbit, in any space radiocommunication service in a frequency band and in a Region where this service is not subject to a Plan, with the exception of the coordination between earth stations operating in the opposite direction of transmission	1) 3 400-4 200 MHz 5 725-5 850 MHz (Region 1) and 5 850-6 725 MHz 7 025-7 075 MHz 2) 10.95-11.2 GHz 11.45-11.7 GHz 11.7-12.2 GHz (Region 2) 12.2-12.5 GHz (Region 3) 12.5-12.75 GHz (Regions 1 and 3) 12.7-12.75 GHz (Region 2) and 13.75-14.8 GHz	i) Bandwidth overlap, and ii) any network in the fixed-satellite service (FSS) and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 7^\circ$ of the nominal orbital position of a proposed network in the FSS i) Bandwidth overlap, and ii) any network in the FSS or broadcasting-satellite service (BSS), not subject to a Plan, and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 6^\circ$ of the nominal orbital position of a proposed network in the FSS or BSS, not subject to a Plan iii) in the band 14.5-14.8 GHz any network in the space research service (SRS) or FSS not subject to a Plan and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 6^\circ$ of the nominal orbital position of a proposed network in the SRS or FSS not subject to a Plan		With respect to the space services listed in the threshold/condition column in the frequency bands in 1), 2), 2bis), 3), 4), 5), 6), 7) and 8), an administration may request, pursuant to No. 9.41, to be included in requests for coordination, indicating the networks for which the value of $\Delta T/T$ calculated by the method in § 2.2.1.2 and 3.2 of Appendix 8 exceeds 6%. When the Bureau, on request by an affected administration, studies this information pursuant to No. 9.42, the calculation method given in § 2.2.1.2 and 3.2 of Appendix 8 shall be used

- COORDINATION PROVISIONS
- Appendix 5

Example of Findings under No. 11.32 Assignments in MIFR (Part II-S)

PARTIE II-S / PART II-S / PARTE II-S / 第II-S部分 / ЧАСТЬ II-S / II-S.جزء

A1 Sat. Network A1f1 Notif. adm. A1f3 Inter. sat. org. BR1 Date of receipt BR20/BR21 BR IFIC no./part
 BR6a/BR6b Id. no. BR3a/BR3b Provision reference N BR2 Adm. serial no. U5 R

BR62 Expiry date for bringing into use BR63 Confirmed date of bringing into use BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station C3a Assigned freq. band C5a Noise temperature
 C4b Nature of service C6a Polarization type C6b Polarization angle

C11a1 Service area no. C11a2 Service area

A5/A6 Coordinations/Agreements

9.21/A	O	PNG
9.21/B	O	
9.21/C	O	CAN HOL
9.7	O	PNG
V/11.31.1/C	V	B CUB D E/CNR E F/GUF F/OCE F G I MEX MRC SUI

C2a1 Assigned frequency

1767.725	MHz	1795.752	MHz	1839.795	MHz				
----------	-----	----------	-----	----------	-----	--	--	--	--

A13 Ref. to Special Sections		C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr d
API/A/9507 CR/C/4029		1 4M00G7W--	40	-26	40		-26

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwidth	C10d7 Ant. diameter	C10d9 Ant. dim. (DGSO)	C8g1 Max. aggr. pwr.	C8g2 Aggr. bandwidth	C8g3 Transp. bandwidth = Aggr. bandwidth
TYPICAL 4	T			1 TT CO	47	0.7					
TYPICAL 5	T			1 TT CO	45	0.9					

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYPICAL 4	AP						
TYPICAL 5	AP						

Findings 2D Date of protection 13A Conformity with RR 13B1 Prov. 13B2 Remarks 13B3 Date of Review

13C Remarks



Notice Id:
121500147
Group Id:
121707287

Examination under No. 11.32

Space Stations

Check if notified characteristics are the same or within the envelope of coordination characteristics

If not → relevant interference calculations are carried out on the basis of AP5

If additional administrations identified → unfavourable finding will be given and notice returned. → Administration would be requested to publish a modification to the related coordination Special Section

See RoP (Rules of Procedure) 11.32

Assignments in MIFR : Part II-S Publication



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		USNN-1		PARTIE PART PARTE	II-S
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2969 / 19.04.2022
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	USA	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	65 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	121500147
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					07.07.2021

Assignations de fréquence inscrites dans le Fichier de référence au titre de		Frequency assignments recorded in the Master Register under		Asignaciones de frecuencia inscrites en el Registro con arreglo al	
X	Article 11 du Règlement des radiocommunications	X	Article 11 of the Radio Regulations	X	Artículo 11 del Reglamento de Radiocomunicaciones
	Article 5 des Appendices 30 et/ou 30A		Article 5 of Appendices 30 and/or 30A		Artículo 5 de los Apéndices 30 y/o 30A
	Article 8 de l'Appendice 30B		Article 8 of Appendix 30B		Artículo 8 del Apéndice 30B

<p>Pour plus d'informations sur les dispositions réglementaires et l'explication des codes ou symboles utilisés dans cette publication, veuillez consulter la Préface.</p>	<p>For more details on the regulatory provisions and the explanation of the codes or symbols used in this publication, please consult the Preface.</p>	<p>Para más detalles sobre las disposiciones reglamentarias y la explicación de los códigos o símbolos utilizados en esta publicación, sírvase consultar el Prefacio.</p>
--	--	---

Notice Creation, Validation, Receivability, Part I-S

Part III-S, Return of Notice, Resubmission

Technical Examination

Findings and Recording

Nos. 11.32A & 11.33 Examination

- The examination of the probability of harmful interference under Nos. 11.32A & 11.33 is carried out when the notifying administration states that the coordination procedure could not be successfully completed for the assignments being notified



Nos. 11.32A & 11.33 Examination

Procedure of 11.32A → *C/I*
calculation
(the methodology is
described in Rules of
Procedure)



Part B | B3 | page 1 | rev.-

PART B

SECTION B3

Rules concerning methodology for calculation of probability
of harmful interference between satellite networks (*C/I* ratios)

1 Introduction

In application of the provisions of No. 11.32A when, as a consequence of continuing disagreement (Nos. 9.63 to 9.65) between two (or a limited number of) administrations, the notifying administration requests the Radiocommunication Bureau, an examination of the probability of harmful interference under No. 11.32A is carried out. For the calculation method and criteria to be used for the interference assessment as well as the findings to be formulated with respect to coordination of their networks under No. 9.7, the Bureau shall proceed as follows.

2 Probability of harmful interference

Nos. 11.32A & 11.32A.2 (WRC-15)

Procedure of 11.32A.2 → *Resolution 762* (WRC-15))

RES762-1

RESOLUTION 762 (WRC-15)

adoption of power flux-density criteria to assess the potential for harmful interference under No. 11.32A for fixed-satellite and broadcasting-satellite service networks in the 6 GHz and 10/11/12/14 GHz frequency bands not subject to a Plan

World Radiocommunication Conference (Geneva, 2015),

RESOLUTION 762 (WRC-15)
considering

that the 6 GHz and 10/11/12/14 GHz frequency bands, not subject to a Plan, are intensively used with operational satellites about every 2-3° around the geostationary-satellite orbit;

b) that there are currently a very large number of satellite networks submitted to the ITU Radiocommunication Sector for these frequency bands;

c) that the above factors have led to significant difficulties for administrations to introduce

PROCEDURE OF No. 11.32A

A1a Sat. Network A1f1 Notif. adm. A1f3 Inter. sat. org. BR1 Date of receipt BR20/BR21 BR IFIC no./part
 BR6a/BR6b Id. no. BR3a/BR3b Provision reference N BR2 Adm. serial no. KAUR R

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwidth	C10d7 Ant. diameter	C10d9 Ant. dim. (DGSO)	C8g1 Max. aggr. pwr.	C8g2 Aggr. bandwidth	C8g3 Transp. bandwidth = Aggr. bandwidth
TYPICAL-7	T			1 TD 2 TK OT	64.9	0.1	7				

C10d5a Co-polar antenna pattern							
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYPICAL-7	REC-580-6						

Findings 2D Date of protection 13A Conformity with RR 13B1 Prov. 13B2 Remarks 13B3 Date of Review
 13C Remarks

BR7a/BR7b Group id. BR1 Date of receipt C2c RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 163/164
 A2a Date of bringing into use A2b Period of valid. A3a Op. agency A3b Adm. resp. BR16 Value of type C8b
 BR62 Expiry date for bringing into use BR63 Confirmed date of bringing into use BR64 Date of receipt of 1st Res49
 BR14 Special Section

C4a Class of station C3a Assigned freq. band C5a Noise temperature
 C4b Nature of service C6a Polarization type C6b Polarization angle
 C11a1 Service area no. C11a2 Service area C11a3 Service area diagram

A5/A6 Coordinations/Agreements	9.7	O	CAN CHN J MLA
X/11.32A	X		ARG B E HOL USA
X/9.13	X		CAN USA

C2a1 Assigned frequency					
28.65	GH=	85	GH=	29.05	GH=
28.75	GH=	95	GH=	29.15	GH=
				29.25	GH=
				29.35	GH=
				29.45	GH=

A13 Ref. to Special Sec.	C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Atch.	C8c3 Min. pwr dens.	C8c4 Atch.	C8e1 C/N ratio	C8e2 Atch.
X/11.32A	6M00G7W--	10	-57.8	2.9		-64.8		10	
	1M95G7W--	10	-52.9	-1.9		-64.8		10	
	500KG7W--	7	-50	-7.9		-64.8		10	
	100KG7W--		-50	-14.8		-64.8		10	

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso.	C10d4 Bmwidth	C10d7 Ant. diameter	C10d9 Ant. dim. (DGSO)	C8g1 Max. aggr. pwr.	C8g2 Aggr. bandwidth	C8g3 Transp. bandwidth = Aggr. bandwidth
TYPICAL-0.4	T			1 TC CR		1.76	0.4				

C10d5a Co-polar antenna pattern							
C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYPICAL-0.4	REC-580-6						

Findings 2D Date of protection 13A Conformity with RR 13B1 13B2 Remarks 13B3 Date of Review
 13C Remarks

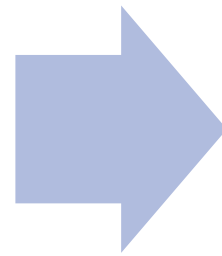
X/11.32A

X/9.13



CASE OF NO. 11.35

In cases where the Bureau is not in a position to conduct the examination under No.11.32A or No.11.33 (i.e. other than No. 9.7)



The Bureau shall immediately inform the notifying administration, which may then resubmit its notice under No.11.41, under the assumption that the finding under No.11.32A or No.11.33 is unfavourable.

Case of No. 11.35

Notice Id: 121500132

Page / Pagina 32



TSUM Requested by: M010R Date: 14.10.2022 10:26:17 AM DB: SRB_ALE_NDB Plan Id: Notice type: NORMO
 A A1a Sat Network: COURIER-3 A1f1 Notif. adm. D A1f3 Inter. sat. org. BR1 Date of receipt: 12.06.2021 BR20 BR IFIC no. 2970
 BR6a/BR6b Id. no. 121500132 BR3a/BR3b Provision reference 11.2 BR2 Adm. serial no.

BR105 Current Milestone BR106 Milestone criteria met BR107 Expiry of the next milestone period
 A2a Date of bringing into use as submitted by the Administration 22.03.2021
 A2a Date of bringing into use 22.03.2021 A2b Period of valid. 15 A3a Op. agency 162 A3b Adm. resp. M BR16 Value of type C8b X A4b7cbis Min. elevation angle
 BR62 Expiry date for bringing into use 13.06.2021 BR63 Confirmed date of bringing into use 22.03.2021 BR64 Date of receipt of 1st Res49

BR14 Special Section
 C4a Class of station EF C3a Assigned freq. band 1100 B4b5 Peak of pfd
 C4b Nature of service OT C6a Polarization type CR C6b Polarization angle
 C8d1 Max. tot. peak pwr. 2 C8d2 Contiguous bandwidth 1100
 C11a1 Service area no. C11a3 Service area diagram
 C9c1 Type of multiple access 13 C9c2 Spectrum mask diagram 14 C11b Affected region

A5/A6 Coordinations/Agreements	9.12A	0	B HOL
	9.14	0	AIR A2E B E E/CNR GRC
	X/9.12	X	CHN F USA
	X/9.12A	X	CHN
	X/9.14	X	CHN CHN EGY F G/GIB G/MSR HOL IRN ISR KGZ MEX RUS UAE USA USA/PTR

C2a1 Assigned frequency													
2484.25	MHz	2486.75	MHz	2489.25	MHz	2491.75	MHz	2494.25	MHz	2496.75	MHz	2499.25	MHz
2485.5	MHz	2488	MHz	2490.5	MHz	2493	MHz	2495.5	MHz	2498	MHz		MHz

A13 Ref. to Special Sections	C7a Design. of emission	C8a1/C8a2 Max. peak pwr.	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attach.	C8c3 Min. pwr dens.	C8c4 Attach.	C8e1 C/N ratio	C8e2 Attach.
API/A/9259 CR/C/3843	1 1M10G1W--	2	-58.4	-3.4		-63.8		2	

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4	C10d6 Noise mp.	C10d7 Ant. diameter
SUBSCRIBER TERMINAL	T			1 TL OT	10.4	54		

C10b4 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
SUBSCRIBER TERMINAL							7

Findings: Date of protection 11.35/9.12, 9.12A, 9.14 34 Conformity with RR A- N- N- 3B4 Prov. 5.399

13C Remarks 11.35/9.12, 9.12A, 9.14



ITU WRS
GENEVA2022

X/9.12, 9.12A, 9.14



Recording under No. 11.41



- When findings unfavorable under Nos. 11.32A & 11.33, a notice can be resubmitted for recording under No. 11.41
 - Administration has to indicate that performed efforts to coordinate with those Administrations for which unfavorable findings resulted in the examination under No. 11.32A, without success (No. 11.41.2)

- MIFR recording (Part II-S) with an indication:
 - 13A: ANN, 13B1: 11.41/9.7, A5/A6: 11.41/9.7|X| ADM
- Upon completion of coordination and in application of No. 11.41B an Administration may request BR to update the coordination status:
 - 13A: AA-, 13B1: empty, A5/A6: 9.7|O| ADM1



Example: Recording under No. 11.41

Notice Id:121500225

Requester: Date: 19.10.2022 10:49:23 AM DB: SBS_A12_M08 Plan Id: Notice type: GSD

A1a Sat. Network: A1f1 Notif. adm. A1f3 Inter. sat. org. BR1 Date of receipt: BR20 BR IFIC no.:

BR6a/BR6b Id. no.: BR3a/BR3b Provision reference: BR2 Adm. serial no.:

BR7a/BR7b Group id.: BR1 Date of receipt: C2c-RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 183/164

A2a Date of bringing into use as submitted by the Administration:

A2i Date of bringing into use: A2b Period of valid.: A3a Op. agency: A3b Adm. resp.: BR16 Value of type C8b:

BR62 Expiry date for bringing into use: BR63 Confirmed date of bringing into use: BR64 Date of receipt of 1st Res49:

BR14 Special Section:

C4a Class of station: C3a Assigned freq. band:

C4b Nature of service: C6a Polarization type: C6b Polarization angle:

C8d1 Max. tot. peak pwr.: C8d2 Contiguous bandwidth:

C10c1 Service area no.:

A5/A6 Coordinations/Agreements

11.41/9.13	X	CMN CHN D G HOL ISR LIE NOR RUS RUS/IK USA
11.41/9.7	X	ARS/ARR AZP BLR CHN CYP D E ETH G GRC HOL IND INS IRN ISR J KOR LUX MCO MLA NIG PAK
9.7	O	QAT RUS S SUI THA TUR UAE UKR USA
V/11.32A	V	CMN EGY NOR OMA PNG

C2a4 Assigned frequency

19.25	GHz																		
-------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

A13 Ref. to Special Sections

Ref.	Design.	Class.	C8a1/C8a2 Max. peak pwr.	C8a2/C8b2 Max. pwr. dens.	C8c1 Min. peak pwr.	C8c2 Attach.	C8c3 Min. pwr. dens.	C8c4 Attach.	C8e1 C/N ratio	C8e2 Attach.
CR/C/4907	1	4K00X9W--	0	-36	-24		-60		-10	
API/C/602	2	1M00X9W--	24	-36	0		-60		-10	
	3	50M0X9W--	41	-36	17		-60		-10	
	4	150MX9W--	45.8	-36	21.8		-60		-10	

C10b1 Assoc. earth station id. C10b2 Type C10c1 Geographical coord. C10c2 Ctry C10d1/C10d2 Cls. / Nat. C10d3 Max. iso. gain C10d4 Bmwidth C10d6 Noise temp. C10d7 Ant. diameter C10d9 Ant. dim. (DGSO)

C10b1	C10b2	C10c1	C10c2	C10d1/C10d2	C10d3	C10d4	C10d6	C10d7	C10d9
Assoc. earth station id.	Type	Geographical coord.	Ctry	Cls. / Nat.	Max. iso. gain	Bmwidth	Noise temp.	Ant. diameter	Ant. dim. (DGSO)
TYPICAL OM50_KA	T			1 TC CO	37.5	2.1	400	0.5	
TYPICAL OM80_KA	T			1 TC CO	42	1.3	447	0.8	

C10d5a Co-polar antenna pattern

C10b1	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
TYPICAL OM50_KA	AP8						
TYPICAL OM80_KA	AP8						

Findings 2D Date of protection: 3A Conformity with RR: 13B1 Prv.: 13B2 Remarks: 13B3 Date of Review:

13C Remarks:



EARTH STATIONS NOTIFICATION SPECIAL SECTION PART II-S



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	JWST-R2	PARTIE PART PARTE	II-S
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	GOLDSTONE CA DSS-14	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2974 / 28.06.2022
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	USA	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			15.12.2021
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE		121505551	

Assignations de fréquence inscrites dans le Fichier de référence au titre de		Frequency assignments recorded in the Master Register under		Asignaciones de frecuencia inscrites en el Registro con arreglo al	
X	Article 11 du Règlement des radiocommunications	X	Article 11 of the Radio Regulations	X	Artículo 11 del Reglamento de Radiocomunicaciones
	Article 5 des Appendices 30 et/ou 30A		Article 5 of Appendices 30 and/or 30A		Artículo 5 de los Apéndices 30 y/o 30A
	Article 8 de l'Appendice 30B		Article 8 of Appendix 30B		Artículo 8 del Apéndice 30B

Pour plus d'informations sur les dispositions réglementaires et l'explication des codes ou symboles utilisés dans cette publication, veuillez consulter la [Préface](#).

For more details on the regulatory provisions and the explanation of the codes or symbols used in this publication, please consult the [Preface](#).

Para más detalles sobre las disposiciones reglamentarias y la explicación de los códigos o símbolos utilizados en esta publicación, sírvase consultar el [Prefacio](#).



EARTH STATIONS NOTIFICATION AND COORDINATION CONTOUR



PARTIE II-S / PART II-S / PARTE II-S / الجزء II-S
A A1e2 Station name GOLDSTONE CA DSS-14 A1f1 Notif. adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 15.12.2021 BR20/BR21 BR IFIC no./part 2974/2
 BR6a/BR6b Id. no. 121505551 BR3a/BR3b Provision reference 11.2 BR2 Adm. serial no. NS-2120

BR19 Ref. to BR IFIC I 2966
 A1e1 Type S A1e3a Ctry USA A1e3b Geo. coord. 116W53 22 35N25 33 A4c1 Assoc. space station JWST-R2
 BR59 Azimuth 0 60 120 180 240 300
 A7a1 Hor. elev. angle 0 0 0 0 0 0
 A7a2 Distance
 A7b1 Min. elev. angle A7c1 Start azimuth A7c2 End azimuth A7d Altitude 1002 A7a3 Horiz. elev. diag.
 A16b Single entry pfd commitment A18a Aircraft earth station commitment
 BR59 Azimuth 0 60 120 180 240 300
 A7e Min. elev. angle 10 10 10 10 10 10

B1a/BR17 Beam designation B2 B2 Emi-Rcp R B5a Isotropic gain 62.2 B5b Beamwidth 0.11 A7f Ant. diameter 70 A10a Coord. area diag. 2

B5c Co-polar antenna pattern

Ref. pat.	Coef. A	Coef. B	Coef. D	Phi1	Rad. diag.
REC-465-6-R					

B5d Antenna dimension (DGSO)

BR7a/BR7b Group id. 121742453 BR1 Date of receipt 15.12.2021 C2c RR No. 4.4
 A2a Date of bringing into use 22.12.2021 A3a Op. agency 502 A3b Adm. resp. B BR16 Value of type C
 BR14 Special Section
 C4a Class of station TH C3a Assigned freq. band 2000 C5b Noise temperature
 C4b Nature of service CO C6a Polarization type D
 A5/A6 Coordinations/Agreements 9.17 O MEX

C2a1 Assigned frequency

2270.5	MHz																		
--------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

A13 Ref. to Special Sections	C7a Design. of emission	C8e1 C/N ratio	C8e2 Atch.
API/A/12956	1 2M00G2D--	4.5	

Findings 2D Date of protection 15.12.2021 13A Conformity with RR A- A- -- 13B1 Prov. 13B2 Remarks 13B3 Date of Review A/22.11.2021
 13C Remarks

B1a/BR17 Beam designation B1 B2 Emi-Rcp E B5a Isotropic gain 61.5 B5b Beamwidth 0.12 A7f Ant. diameter 70 A10a Coord. area diag. 1

B5c Co-polar antenna pattern

Ref. pat.	Coef. A	Coef. B	Coef. D	Phi1	Rad. diag.
REC-465-6-E					

B5d Antenna dimension (DGSO)

BR7a/BR7b Group id. 121742452 BR1 Date of receipt 15.12.2021 C2c RR No. 4.4
 A2a Date of bringing into use 22.12.2021 A3a Op. agency 502 A3b Adm. resp. B BR16 Value of type C8b
 BR14 Special Section

Coordination
No.9.17 IOI MEX

GIBC SNS V9.1 - BETA

PFID/EIRP Earth Station PFID Power Control FOS Appendix B
 PFID/EIRP GSO PFID (space serv) PFID/EIRP NSGO
 Appendix 7 Appendix 30B Appendix 30 30A Tools / Options

Network ID: 121505551 Calculate Report

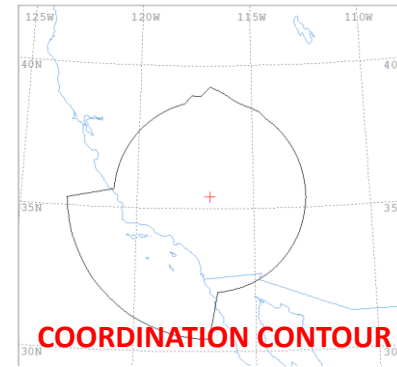
Warning Error Progress

Message Module
 Calling batch pilot at 11:26:10. GIBC
 Formatting data for calculation: rfc_id = 121505551... Progress in
 Loading data from SNS for rfc_id = 121505551... Progress in
 Reading RefDb and defining diagrams for rfc_id = 12150555... Progress in
 DIAGRAM 1: 2.2_TABLE7_TRANSMITTING NSGO ES IN... Progress in
 DIAGRAM 2: 2.2_TABLE8_RECEIVING NSGO ES IN SPA... Progress in
 DIAGRAM 3: 2.2_TABLE9_RECEIVING NSGO ES IN SPA... Done and in
 < >

Calculation Output
 Out DB: C:\Users\muk\VTU\BR_SPACE_V9.1\TEXT_RESULTS\APP7.12
 < >

RTF Report Generation
 C:\Users\muk\VTU\BR_SPACE_V9.1\TEXT_RESULTS\APP7.12
 < >

Print Auxiliary Scale (km)
 Version 9.1.0.0 Beta Appendix 7



PROBABLY APPLICABLE COORDINATION DATA

Diagram 1: 2.2_TABLE7_TRANSMITTING NSGO ES IN SPACE RESEARCH SERVICE W.R.T. RECEIVING TERRESTRIAL STATIONS. To: Earth, mobile, Application: Global

Station ID: 121505551 Station location name: GOLDSTONE CA DSS-14
 Administrative/Geographical area: USA/CA Station location coordinates: 116W53.374830 35N25.583330
 Frequency band: 2270-2275 MHz Max. ERP: 100 W
 Modulation: QPSK

TRANSMITTING LOSS MODE 1: 227.5 dB (DOES NOT INCLUDE MIN. COEF. AND ANT. GAIN)
 RECEIVING LOSS MODE 1: 227.5 dB

COORDINATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
LOSS [dB]	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300																	



EARTH STATIONS NOTIFICATION

A	A1e2 Station name	GOLDSTONE CA DSS-14	A1f1 Notif. adm.	USA	A1f3 Inter. sat. org.		BR1 Date of receipt	15.12.2021	BR20/BR21 BR IFIC no./part	2974/2
	BR6a/BR6b Id. no.	121505551	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.	NS-2120	B2	R	

BR19 Ref. to BR IFIC I	2966						
A1e1 Type	S	A1e3a Ctry	USA	A1e3b Geo. coord.	116W53 22 35N25 33	A4c1 Assoc. space station	JWST-R2
BR59 Azimuth	0	60	120	180	240	300	
A7a1 Hor. elev. angle	0	0	0	0	0	0	
A7a2 Distance							
A7b1 Min. elev. angle		A7c1 Start azimuth		A7c2 End azimuth		A7d Altitude	1002
A7a3 Horiz. elev. diag.							
A16b Single entry pfd commitment		A18a Aircraft earth station commitment					
BR59 Azimuth	0	60	120	180	240	300	
A7e Min. elev. angle	10	10	10	10	10	10	

B1a/BR17 Beam designation		B5b Beamwidth	0.11	A7f Ant. diameter	70	A10a Coord. area diag.	2
Ref. pat.		Phi1		Rad. diag.			
REC-465-6-R							

No.11.31 Verified, No.11.32 verified
Will be recorded in MIFR

Coordination
No.9.17 IOI MEX

d.	121742453	BR1 Date of receipt	15.12.2021	C2c RR No. 4.4	
use	22.12.2021	A3a Op. agency	502	A3b Adm. resp.	B
TH		C3a Assigned freq. band	2000	C5b Noise temperature	30
		C6a Polarization type	D	C6b Polarization angle	

C2a1 Assigned frequency	
2270.5	MHz

A13 Ref. to Special Sections	C7a Design. of emission	C8e1 C/N ratio	C8e2 Attch.
API/A/12956	1 2M00G2D--	4.5	
Findings	2D Date of protection	15.12.2021	13A Conformity with RR
13C Remarks			A- A- --
	13B1 Prov.		13B2 Remarks
			13B3 Date of Review
			A/22.11.2021

B1a/BR17 Beam designation	B1	B2 Emi-Rcp	E	B5a Isotropic gain	61.5	B5b Beamwidth	0.12	A7f Ant. diameter	70	A10a Coord. area diag.	1
B5c Co-polar antenna pattern											
Ref. pat.	Coef. A	Coef. B	Coef. D	Phi1	Rad. diag.						
REC-465-6-E											
B5d Antenna dimension (DGSO)											

BR7a/BR7b Group id.	121742452	BR1 Date of receipt	15.12.2021	C2c RR No. 4.4	
A2a Date of bringing into use	22.12.2021	A3a Op. agency	502	A3b Adm. resp.	B
BR14 Special Section					



EARTH STATIONS NOTIFICATION

BR19 Ref. to BR IFIC I

A1e1 Type A1e3a Ctry A1e3b Geo. coord. A4c1 Assoc. space station A4c2 Orbital long.

BR59 Azimuth	<input type="text" value="0"/>	<input type="text" value="180"/>
A7a1 Hor. elev. angle	<input type="text" value="0"/>	<input type="text" value="0"/>
A7a2 Distance	<input type="text"/>	<input type="text"/>

A7b1 Min. elev. angle A7c1 Start azimuth A7c2 End azimuth A7d Altitude A7a3 Horiz. elev. diag.

A16b Single entry pfd commitment A18a Aircraft earth station commitment

B1a/BR17 Beam designation	<input type="text" value="CD1"/>	B2 Emi-Rcp	<input type="text" value="R"/>	B5a Isotropic gain	<input type="text" value="47.3"/>	B5b Beamwidth	<input type="text" value="0.72"/>	A7f Ant. diameter	<input type="text" value="6.3"/>	A10a Coord. area diag.	<input type="text" value="1"/>
---------------------------	----------------------------------	------------	--------------------------------	--------------------	-----------------------------------	---------------	-----------------------------------	-------------------	----------------------------------	------------------------	--------------------------------

B5c Co-polar antenna pattern					
Ref. pat.	Coef. A	Coef. B	Coef. D	Phi1	Rad. diag.
REC-580-6					

B5d Antenna dimension (DGSO)

BR7a/BR7b Group id. BR1 Date of receipt C2c RR No. 4.4

A2a Date of bringing into use A3a Op. agency A3b Adm. resp. BR16 Value of type C8b

BR14 Special Section

C4a Class of station C3a Assigned freq. band C5b Noise temperature

C4b Nature of service C6a Polarization type C6b Polarization angle

A5/A6 Coordinations/Agreements	<input type="text" value="AP5#6E1"/>	<input type="text" value="O"/>	
	<input type="text" value="2/11.41"/>	<input type="text" value="X"/>	CYP RUS SEY
	<input type="text" value="7/9.7"/>	<input type="text" value="O"/>	BLR/IK HOL PAK THA TUR VTN

C2a1 Assigned frequency					
MHz	MHz	MHz	MHz	MHz	MHz
<input type="text" value="3415.078"/>	<input type="text" value="3445.078"/>	<input type="text" value="3475.078"/>	<input type="text" value="3505.078"/>		

A13 Ref. to Special Sections	C7a Design. of emission	C8e1 C/N ratio	C8e2 Attch.
AR11/A/1380	1 1M91G7W--	<input type="text" value="8"/>	
AR11/C/2751	2 1S6KG7D--	<input type="text" value="8"/>	
CR/C/40	3 1S6KD7D--	<input type="text" value="8"/>	
	4 62K5G7D--	<input type="text" value="8"/>	
	5 31K2G7W--	<input type="text" value="8"/>	

Findings 2D Date of protection 13A Conformity with RR 13B1 Prov. 13B2 Remarks 13B3 Date of Review

13C Remarks

e)

for assignments to earth stations in relation to terrestrial stations or earth stations operating in the opposite direction of transmission, when an administration proposes:

i) to bring into use an earth station the coordination area of which does not include any of the territory of any other country;





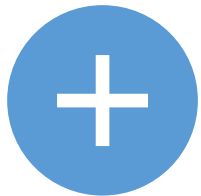
Inquiry/clarification process will be initiated for the following conditions



i) Notifying administration indicated coordination agreement has been obtained while objecting administration indicated that coordination agreement has not been obtained



ii) The frequency assignments to which the objecting administration objects are subject to a coordination procedure under Section II of Article 9



and



iii) The objecting administration is considered an affected administration for those frequency assignments the objecting administration indicated as coordination agreement has not been obtained

COMMENTS/OBJECTIONS TO COORDINATION STATUS IN PART-IS, PART-IIS OR PART-IIIS

The notification process from the notice creation, through Part I-S publication, the technical examination and the final recording in MIFR was presented



Some helpful tips:

Notice validation without fatal errors minimizes delays in publication/examination

Monitor IFIC publications

When difficulties occur, do not hesitate to contact us in BRMAIL@itu.int

SUMMARY



Thank you!



ITU –
Radiocommunication
Bureau



Questions to
brmail@itu.int or



mehtap.dufour@itu.int
or
akim.faloudine@itu.int