

ITUWRS
GENEVA2024

2-6 December 2024
Geneva, Switzerland

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

Mehtap Dufour and Akim Falou-Dine

2-6 December 2024, Geneva, Switzerland

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 and technical 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 (unfavourable under No. 11.32)** , **11.41(unfavourable under No.11.32A)** until the **final recording** takes place





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)
- **Please USE THE COORDINATION AGREEMENT TOOL**



Manual capturing of all mandatory Appendix 4 information

- Converted notices also need some manual treatment



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



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:

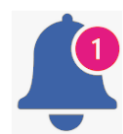
- a) That the intended use of the frequency assignment to the station under No. 4.4 will not cause harmful interference into the stations of other administrations operating in conformity with the Radio Regulations;
- b) What measures it would need to take in order to comply with the requirement to immediately 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 does not contain the confirmation(Please use SpaceCap to capture this commitment)





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



ITU WRS
GENEVA 2024

C3a. Assigned Frequency Bandwidth ☐ No Sensors
☐ Active Sensors
☐ Passive Sensors

40000 (kHz)

☒ 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 ☒ Yes ☐ 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) ☐ Yes ☒ No

A17a. Commitment to meet power-flux density limits (applicable bands 1164-1215 MHz) ☒ Yes ☐ No

A18a. Commitment of aircraft earth station (applicable bands 14-14.5 GHz) ☐ Yes ☒ No

A16c. Commitment to meet separation distance of No. 5.509E and PFD limits of 5.509D ☐ Yes ☒ No

A19b. Commitment in accordance with resolves 1.5 of Res 156 ☐ Yes ☒ No

A20a. Commitment of conformity with RR and Res 169 ☐ Yes ☒ No

A21a. Commitment to follow the procedures in resolves 4 of Res 169 upon receipt of a report of unacceptable interference ☐ Yes ☒ No

A22a. Commitment of conformity with pfd limits in Part II of Annex 3 to Res 169 ☐ Yes ☒ 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 ☒ Yes ☐ 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



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



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

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

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 .
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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

TSUM Requested by: NG4UR		Date: 04.12.2018 4:31:15 PM		DB: IFIC2884.MDR		Plan Id:		Notice type: NDNGEQ	
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.		B11	
Date of receipt of API 18.04.2011		Special Section 1		No.		Special Section 3		No.	
Notes									
Compare id.		Records		Structures		Frequencies		Emissions	
Assoc. Estns		Assoc. Stns		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		C11a3 Service area diagram 4					
C11a1 Service area no.		C11a2 Service area							
A5/A6 Coordinations/Agreements									
C2a1 Assigned frequency									
2210.7692 MHz									
A13 Ref. to Special Sections API/A/2935		C7a Design. of emission 1 300RG1DXN		C8a1/C8b1 Max. peak pwr 5		C8a2/C8b2 Max. pwr dens. -46		C8c1 Min. peak pwr -20	
C8c2 Attech.		C8c3 Min. pwr dens. -72		C8c4 Attech.		C8e1 C/N ratio 10		C8e2 Attech.	
C10b1 Assoc. earth station id. CRISP-SNG		C10b2 Type S		C10c1 Geographical coord. 103E46 54 01N17 32		C10c2 Ctry SNG		C10d1/C10d2 Cls. / Nat. 1 TR CV	
C10d3 Max. iso. gain 40		C10d4 Bmwidth 1.49		C10d6 Noise temp. 171		C10d7 Ant. diameter 6.1			
C10d5a Co-polar antenna pattern									
C10b1 Assoc. earth station id. CRISP-SNG		Co-polar ref. pattern		Coef. A		Coef. B		Coef. C	
Coef. D		Phi1		Co-polar rad. diag. 3					
Findings 2D Date of protection		13A Conformity with RR N- -- --		13B Prov. X/21.16		13B2 Remarks		13B3 Date of Review	
13C Remarks									





PART III-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 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	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	118512002
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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Return of Notice Letter



✓ Dispatch date:

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

Radiocommunication Bureau (BR)

O/Ref.: 11SG(SPR)O-2024-003849

Contact: Chuen Chern Loo
Telephone: +41 22 730 5339
E-mail: chuen-chern.loo@itu.int

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

Subject: **Return of notice for the CHNSAT-M-81.5E satellite network**

Geneva, 26 November 2024

Ministry of Industry and Information
Technology (MIIT)
13, West Chang'an Avenue
BEIJING, 100804
China

Faxes:
+86 10 683 66494
+86 10 660 11370
+86 10 660 11250

E-mails:
dlxx@miit.gov.cn
srrcsat@srcc.org.cn

Dear Madam, Dear 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>



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



How to prepare your resubmission notices



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

—A4a: For Geostationary Satellites Only—

1. Nominal Orbital Longitude Degrees	E/W	2. Longitudinal tolerance (degrees)
169.00	E	a. To West 0.1 b. To East 0.1
2c. Inclination Excursion		
0.1 °		
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 checked="" type="radio"/> Yes <input type="radio"/> No		
A17a. Commitment to meet power-flux density limits (applicable bands 1164-1215 MHz)		
<input type="radio"/> Yes <input checked="" type="radio"/> No		
A18a. Commitment of aircraft earth station (applicable bands 14-14.5 GHz)		
<input type="radio"/> Yes <input checked="" type="radio"/> No		



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.

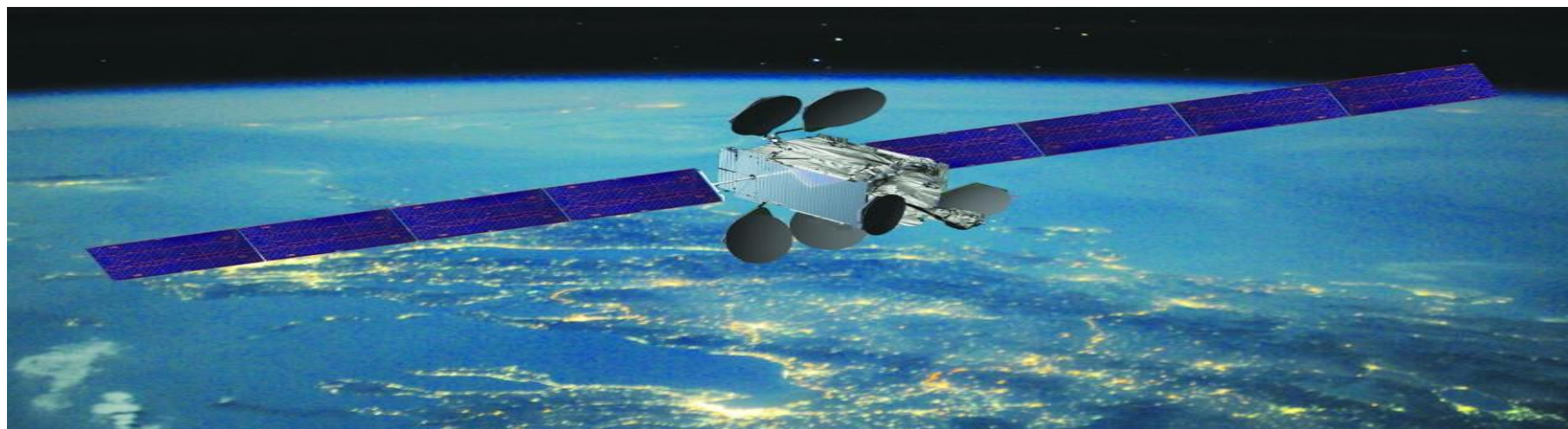


List summarizing the provisions presented.

This table summarizes some Important provisions concerning notification

Provisions		Remarks
No.11.2	Submission of notification of space stations and earth stations	
No.11.12	Submission of radio astronomy stations	
No.11.25	Date of BIU-Date of notification should be less than 3 years	
No.11.28	Publication of Notification information: Part 1S	
No.11.28.1	Comments on Part1S – no deadline for submitting comments -WRC-23	
No.11.31	Examination in accordance with the table of frequency allocation (Article 5) and limits in Articles 21, 22 and other provisions in <u>RoP</u>	
No.11.32	Examination to verify whether coordination agreements have been obtained and if the notified characteristics fall within the CRC envelope.	
No.11.32A	If a coordination agreement has not been <u>obtained</u> an examination of the potential for harmful interference (C/I calculation) may be requested.	
No.11.35	The Bureau cannot conduct No.11.32A examination	
No.11.36	Notice returned due to <u>unfavourable</u> finding under No.11.31	<i>Cannot be resubmitted</i>
No.11.37	Notice returned due to <u>unfavourable</u> finding under No.11.32	<i>Can be resubmitted within 6 months</i>
No.11.38	Notice returned due to <u>unfavourable</u> finding under No.11.32A	<i>Can be resubmitted within 6 months</i>
No.11.41	If the examination under Article 11.32A is still unsuccessful, the notice can be resubmitted under No.11.41.	
No.11.41.2	Indication that efforts have been made to effect coordination	
No.11.41B	For assignments recorded under Article No.11.41, any updates regarding coordination status should be communicated to the Bureau."	<i>Notification already recorded</i>
No.11.46	Resubmission shall be sent within 6 months from the date of return letter: original date of receipt will be maintained	
No.11.46.1	A reminder will be issued 4 months after the return letter date (2 months before the 6-month deadline mentioned in No.11.46)	

Technical Examination



Findings and Recording



Thank you!



ITU –
Radiocommunication
Bureau



Questions to
brmail@itu.int or



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

Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or xxxx@itu.int