ITU World Radiocommunication Seminar

Geneva 2006 Regional Agreement & Software Tools

7-11 December 2026, Geneva, Switzerland



Geneva 2006 Agreement & Software Tools

11.12.2026
0900 - 1020



Thiago Soares
Senior Radiocommunication Engineer



Andrea Manara
Senior Software Engineer



Subodh Nepal
Senior Radiocommunication Engineer

Overview

Part I – The GE06 Agreement

- General aspects of GE06 Agreement
- Article 4 - Plan Modification Procedure
- Article 5 - Notification Procedure

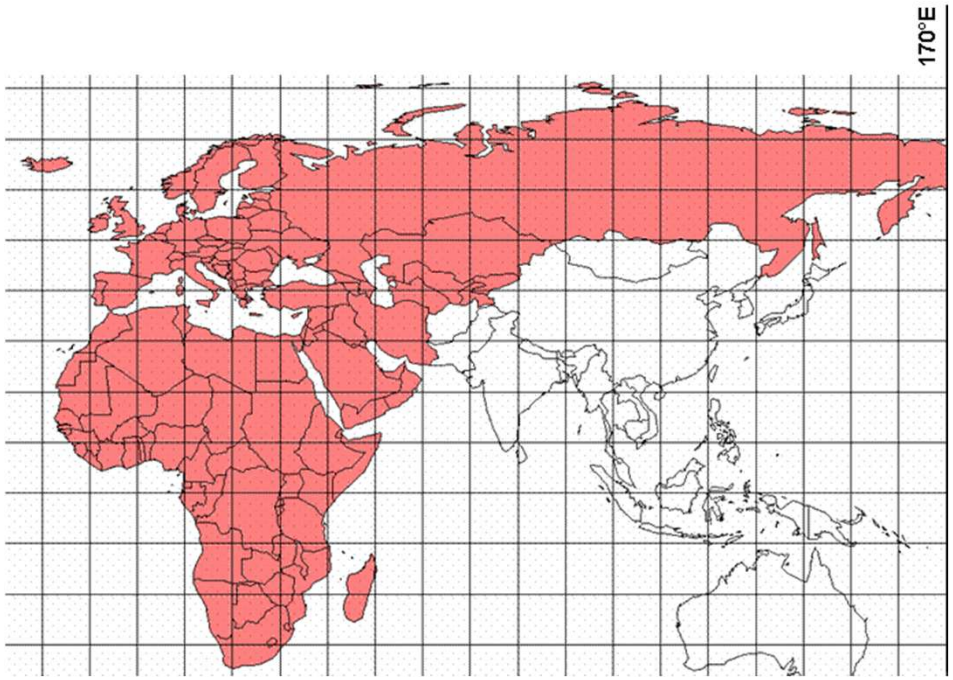
Part II – Software Tools

- Exercices (eTools)
- Coordination Examination (Article 4)
- Conformity Examination (Article 5)

Part I – The GE06 Agreement

General Aspects of GE06 Agreement

Planning Area



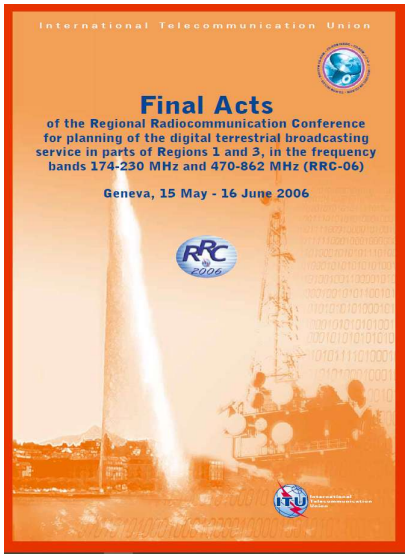
Region 1 (parts of Region 1 situated to the west of meridian 170° E and to the north of parallel 40° S, except the territory of Mongolia) and in the Islamic Republic of Iran

Publication

- **Entry into force: 17 June 2007**
  - Provisionally as of 17 June 2006

- **Frequency Bands:**
  - VHF: 174-230 MHz
  - UHF: 470-862 MHz

- **Plans**:
  - GE06D (broadcasting): for Digital entries;
  - GE06A (broadcasting): for Analogue assignments;
  - GE06L: List for assignments of Other Primary Services



Basic Definitions

- **Plans: No 1.10 of Article 1 → §3.1 of Article 3**
  - 3.1.1 The digital Plan consisting of two parts: the 174-230 MHz band and the 470-862 MHz band (comprising T-DAB Plan assignments, T-DAB Plan allotments, DVB-T Plan assignments, DVB-T Plan allotments).
  - 3.1.2 The analogue Plan consisting of two parts: the 174-230 MHz band and the 470-862 MHz band. → **The Analogue Plan ceased to exist on 17 June 2020**

- **Other Primary Services (OPS) List: No.1.14 of Art.1**

  1.14 Other primary terrestrial services: The primary terrestrial services other than the broadcasting service, and the primary radio astronomy service, to which the frequency bands 174-230 MHz and/or 470-862 MHz are allocated in the Planning Area in accordance with Article 5 of the Radio Regulations.

  Description of OPS systems - Chapter 4, Annex 2

Digital broadcasting

Plan entries and Assignment Codes

Plan Entry Code	Description
1	One assignment only
2	Single Frequency Network (SFN)
3	One allotment only
4	Allotment with linked Assignments and SFN_Ids
5	Allotment with single linked assignment and no SFN identifier



Assignment code	Description
S	**Single** assignment
L	**Linked** assignment
C	**Converted** assignment

Possible combinations
1S
2L
3C
4L
4C
5L

Article 4 - Plan Modification Procedure

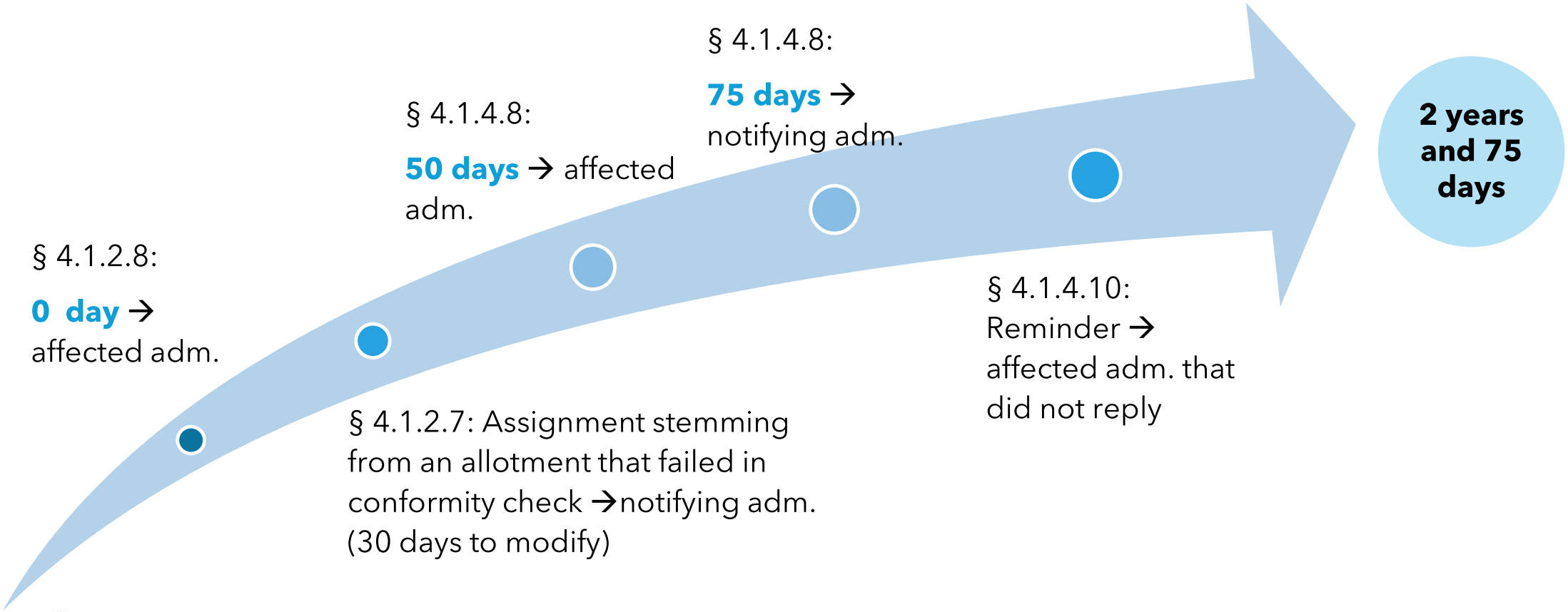
Plan Modification Definition § 4.1 and 4.2 of Article 4

- **Change** characteristics of an allotment or assignment already in the Plans;

- **Add** to the Plans:
  - An allotment or assignment;
  - A converted assignment (an assignment stemming from an allotment) to the digital Plan;

- **Cancel (suppress)** from the Plans an allotment or an assignment

Provisions of Article 4 Informing administrations



Affected administration rights
(within 40 days from the publication day)

- **§ 4.1.3.2:** Request the Bureau to add its name to the list of affected administrations

- **§ 4.1.2.9:** Request the Bureau to remove its name from the list of administrations having given their agreement

Article 4 Procedures

Notice Types:
GS1, GT1, GS2, GT2

Normal procedure

Pub_req=FALSE

- Notice submission
- Coordination Exam
- **Part A publication**
- **75 days + 2 Years**
- All necessary agreements + **TB3 Notice**
- **Part B publication**

Shortcut procedure

Pub_req=TRUE

- Notice submission
- Coordination Exam
- **Part A publication**
- All necessary agreements
- **40 days**
- **Part B publication**

Converted assignment

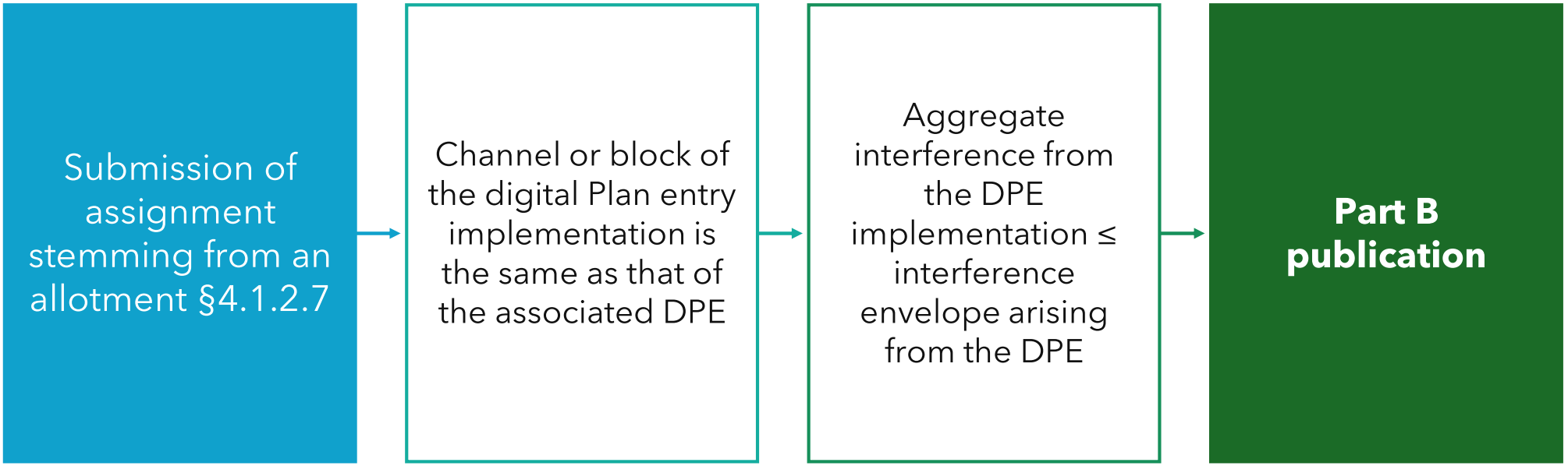
- Notice submission
- Conformity Exam
- If in conformity
- **Part B publication**

Conformity Examination

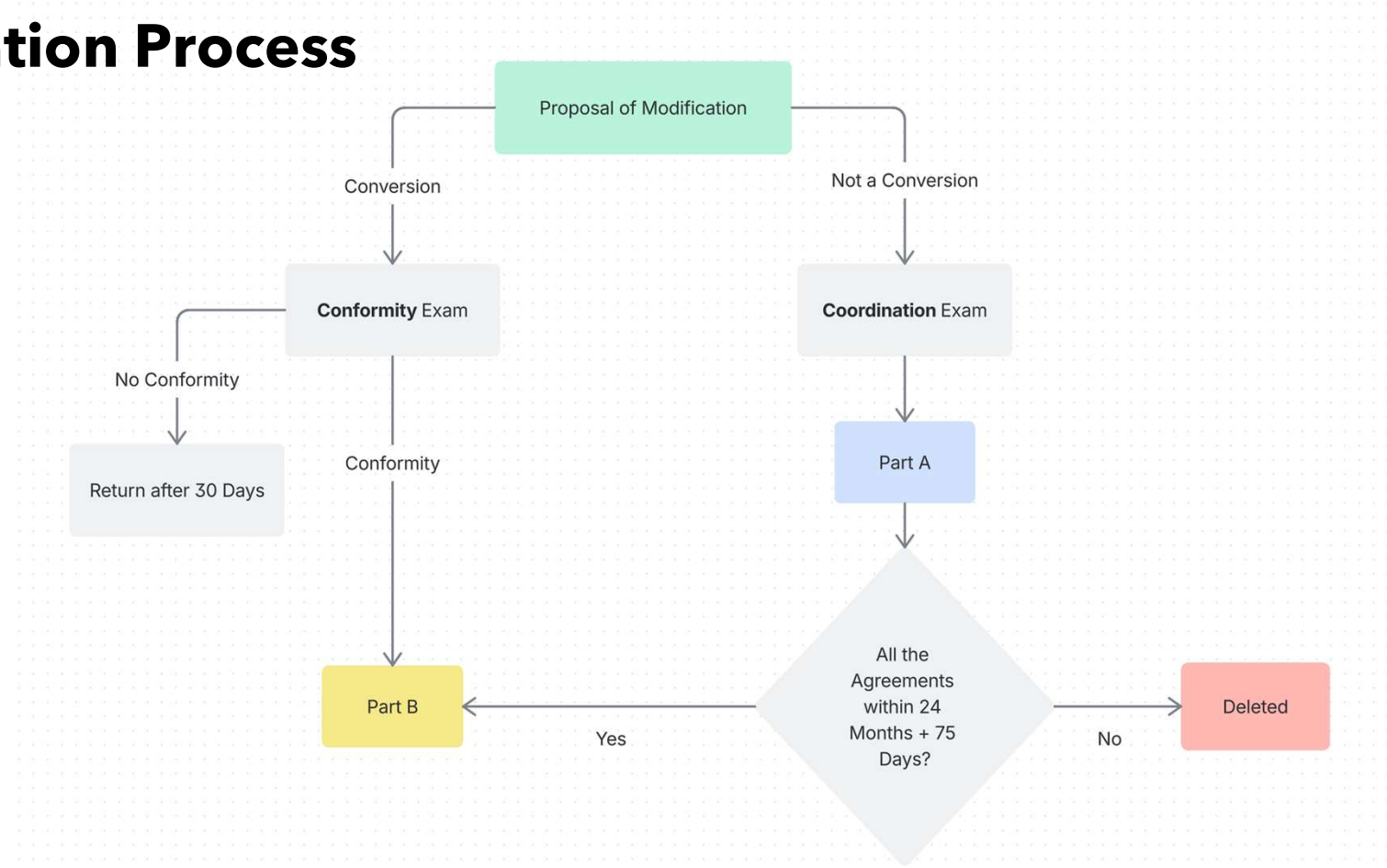
- Specific to **converted assignments**
- **Section II** of Annex 4;
- Define if the assignment is in conformity
- **No coordination information is necessary**
- 'Plan Remarks' remain the same as in the allotment

Recommendation: carry out an unofficial check on conformity before submission to the BR

Conformity Examination



Publication Process



Specific Features of the Coordination Procedure

No reply?	**No agreement**
Temporary Agreement? (Art4) § 4.1.5.4	**For a defined duration**
Delete the Plan Remarks?	**Not possible**
Proposed modification of the Plans if not recorded after 24 months and 75 days?	**Deleted**

GE06 Article 5 - Notification of frequency assignments

Where Article 5 fits

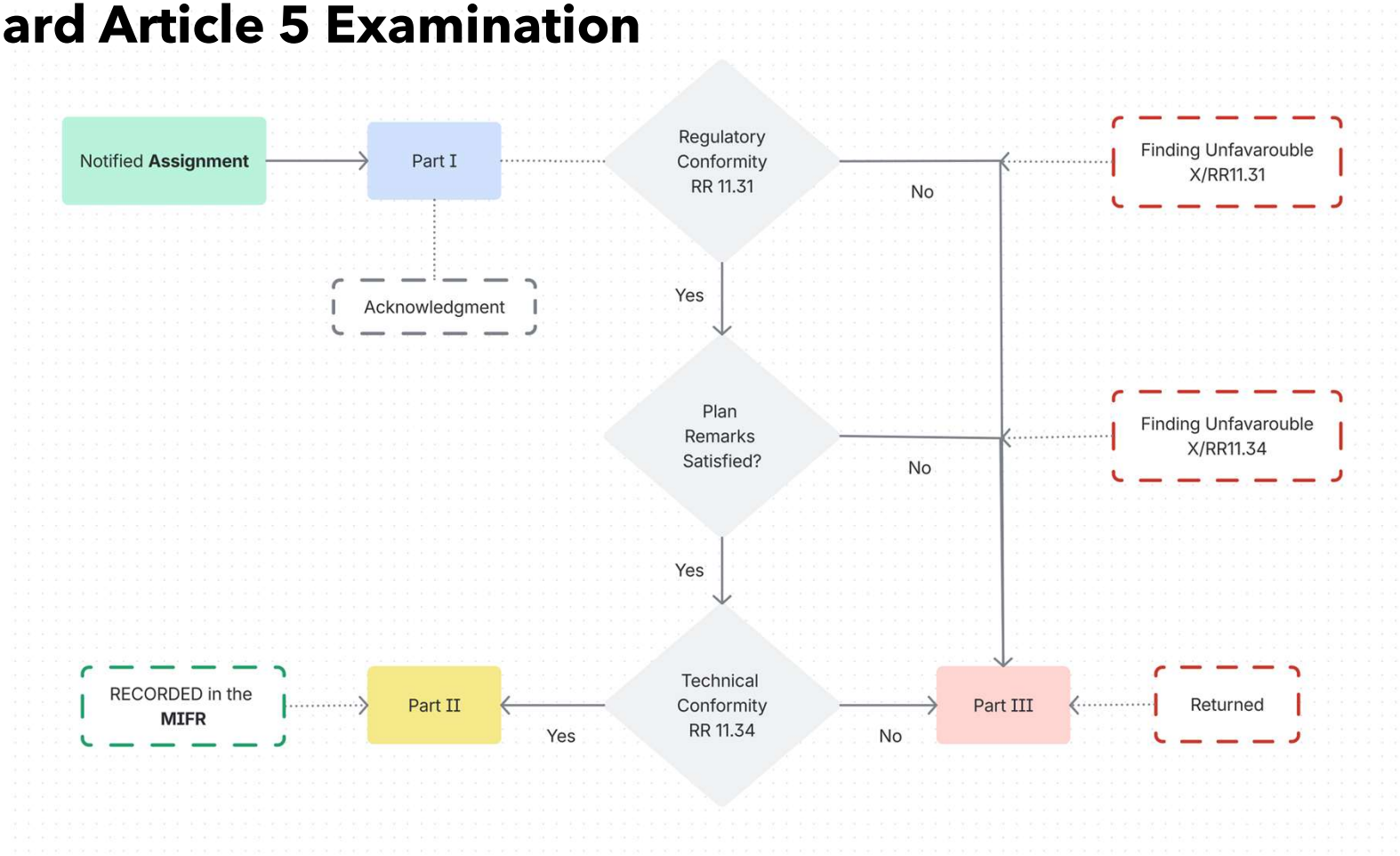


- When an administration proposes to bring a broadcasting assignment into use, it notifies the Bureau under RR Article 11, with the characteristics required by the GE06 Agreement.

- Before notifying, ensure that the relevant assignment is RECORDED in the Plan (exception for the assignment stemming from allotment, which can be notified directly under Article 5)

- If Plan remarks, notify with all necessary agreements (application of Section II of Annex 4)

Standard Article 5 Examination



GE06 §5.1.2 — routes to a favourable Plan-conformity finding

Plan assignment §5.1.2(a)	Plan assignment with remarks §5.1.2(b)	Assignment stemming from allotment §5.1.2(c)	Stemming from allotment with remarks §5.1.2(d)	Different DVB-T / T-DAB characteristics §5.1.2(e)

Common technical condition

Conditions of Section II of Annex 4 are met

When the associated Plan entry bears remarks

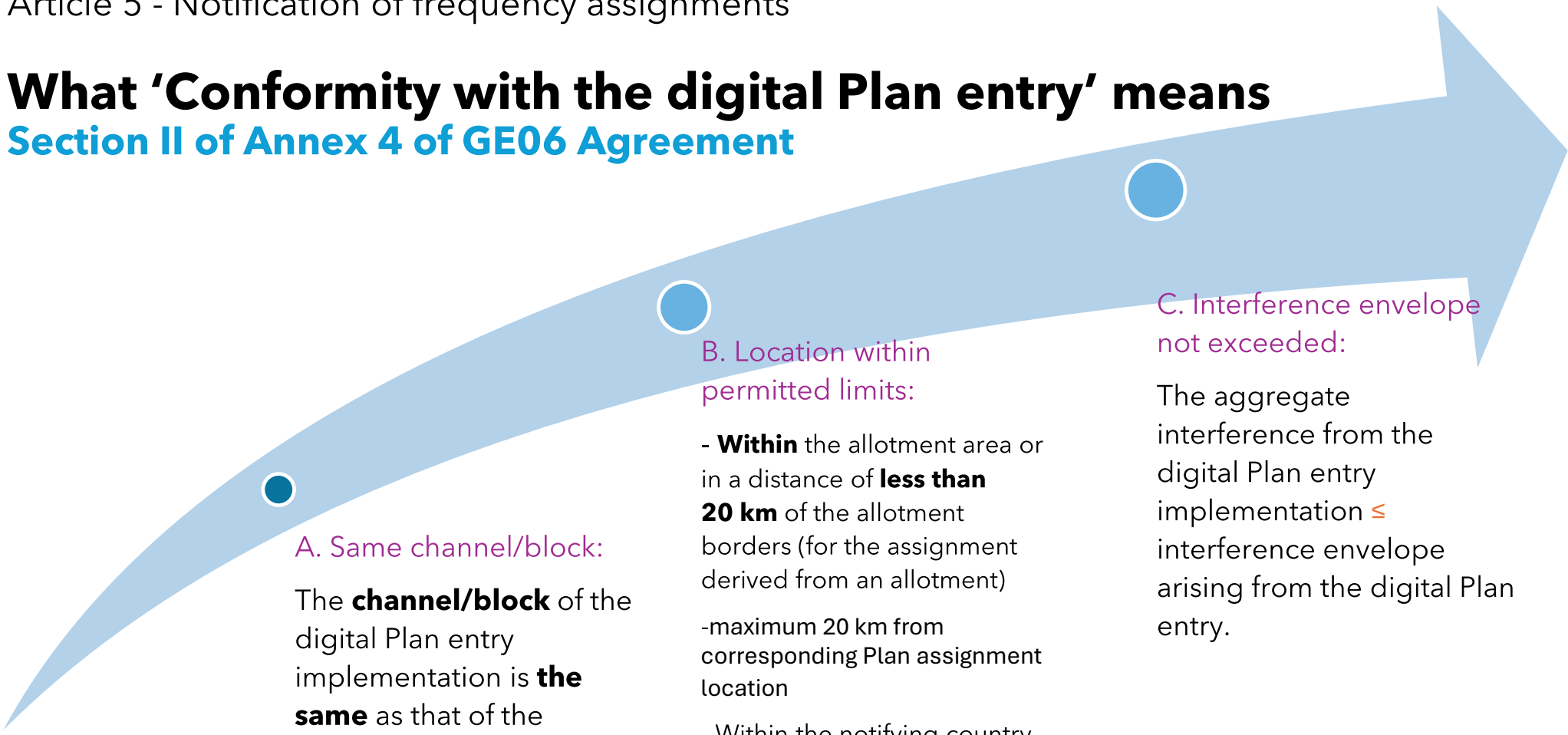
Remarks concerning analogue Plan / other primary terrestrial services → all necessary agreements obtained

Remarks concerning digital Plan entries → notifying administration states that all remark conditions are fully met

The electronic notification forms are: **GS1 for T-DAB | GT1 for DVB-T**

What 'Conformity with the digital Plan entry' means

Section II of Annex 4 of GE06 Agreement



A. Same channel/block:

The **channel/block** of the digital Plan entry implementation is **the same** as that of the associated digital Plan entry

B. Location within permitted limits:

- **Within** the allotment area or in a distance of **less than 20 km** of the allotment borders (for the assignment derived from an allotment)

-maximum 20 km from corresponding Plan assignment location

- Within the notifying country borders.

C. Interference envelope not exceeded:

The aggregate interference from the digital Plan entry implementation ≤ interference envelope arising from the digital Plan entry.

GE06 §5.1.3: Digital Plan entry with different characteristics

Rules of Procedures - Part A10

1	**Notice & Plan reference**	Identify the digital Plan entry. If it bears remarks, satisfy the applicable agreements/declaration.
2	**4 kHz SPD test**	Check the notified maximum spectral power density against the §5.1.3 limit.
3	**Complete technical data**	Provide ERP, polarization, necessary bandwidth, effective heights in 36 azimuths and antenna attenuation/pattern, as applicable.
4	**RoP interference-envelope exam**	The Bureau derives/uses equivalent maximum ERP and checks that field strength in any direction causes no more interference than the digital Plan entry.
5	**Finding / MIFR**	Favourable examinations: record in the MIFR. Use under §5.1.3 cannot claim more protection than the corresponding digital Plan entry.

Digital broadcasting assignment under §5.1.3: **GB1**

Assignment in a service other than broadcasting: **G11, G12, G13, G14**

Resubmission after an unfavourable GE06 finding

GE06 §§5.1.5-5.1.9

Initial notice §5.1.5

Unfavourable conformity finding: return the notice to the administration with reasons.

Resubmission §5.1.6

Administration resubmits under §5.1.2 and, where appropriate, §5.1.3.

Re-examination

Bureau repeats GE06 conformity and relevant RR Article 11 examinations.

Favourable

Record in the MIFR §5.1.6

§5.1.3 / GB1 cases

May be resubmitted, but §5.1.7 does not apply if §5.1.3 remains unfavourable.

Unfavourable under §5.1.2 only

§5.1.7 Special recording: favourable RR 11.31 + unfavourable RR 11.34. Identify administrations with continuing disagreement.

§5.1.8 Signed commitment: no unacceptable interference to, or protection claim from, qualifying stations of those administrations.

§5.1.9 If unacceptable interference affects their protected assignment, the causing administration must eliminate it immediately upon advice.

Part II – Software Tools

Remember!

GE06 **Plan** = planned stations



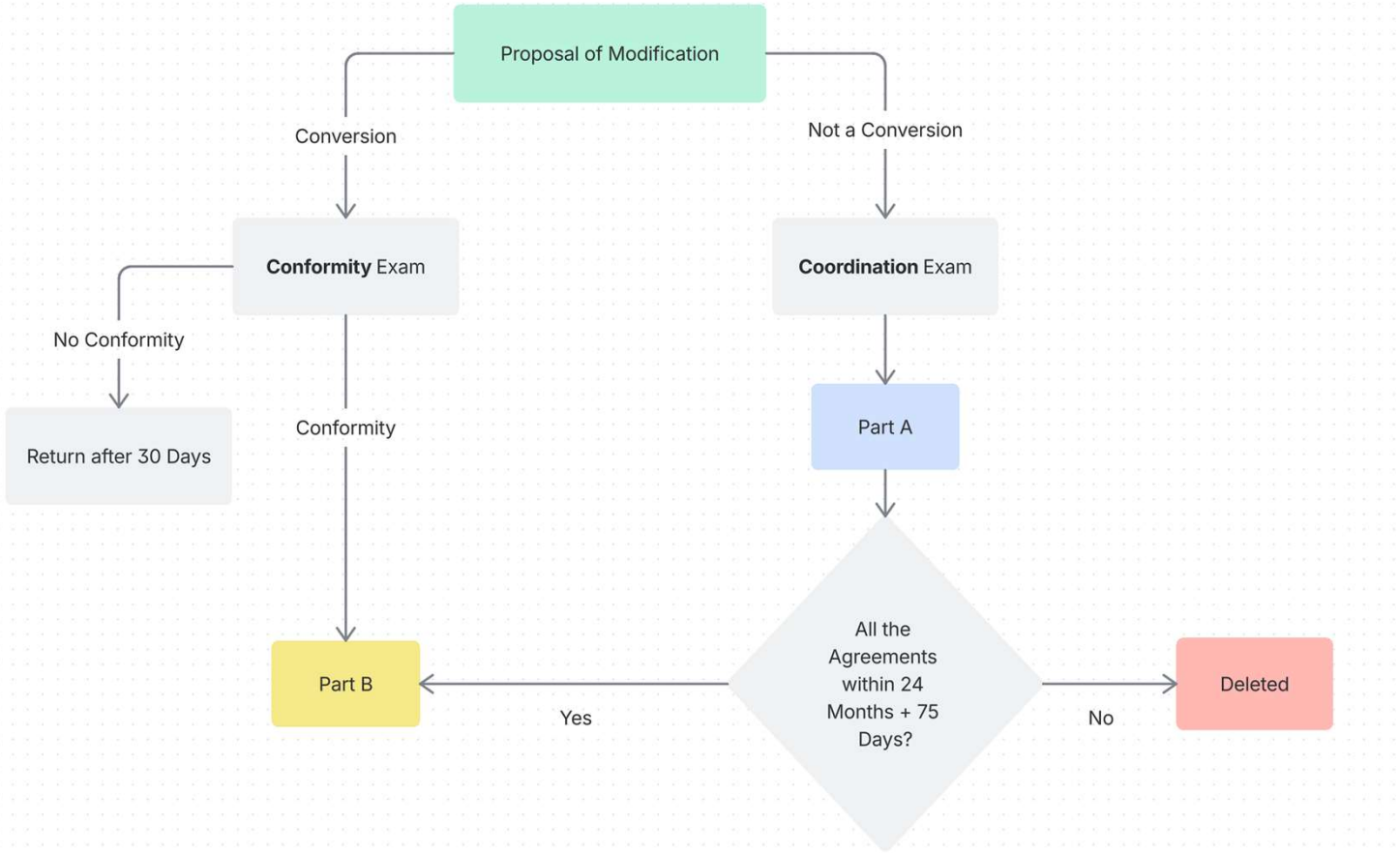
GE06 **ARTICLE 4** = GE06 Plan modifications

MIFR = stations in Service

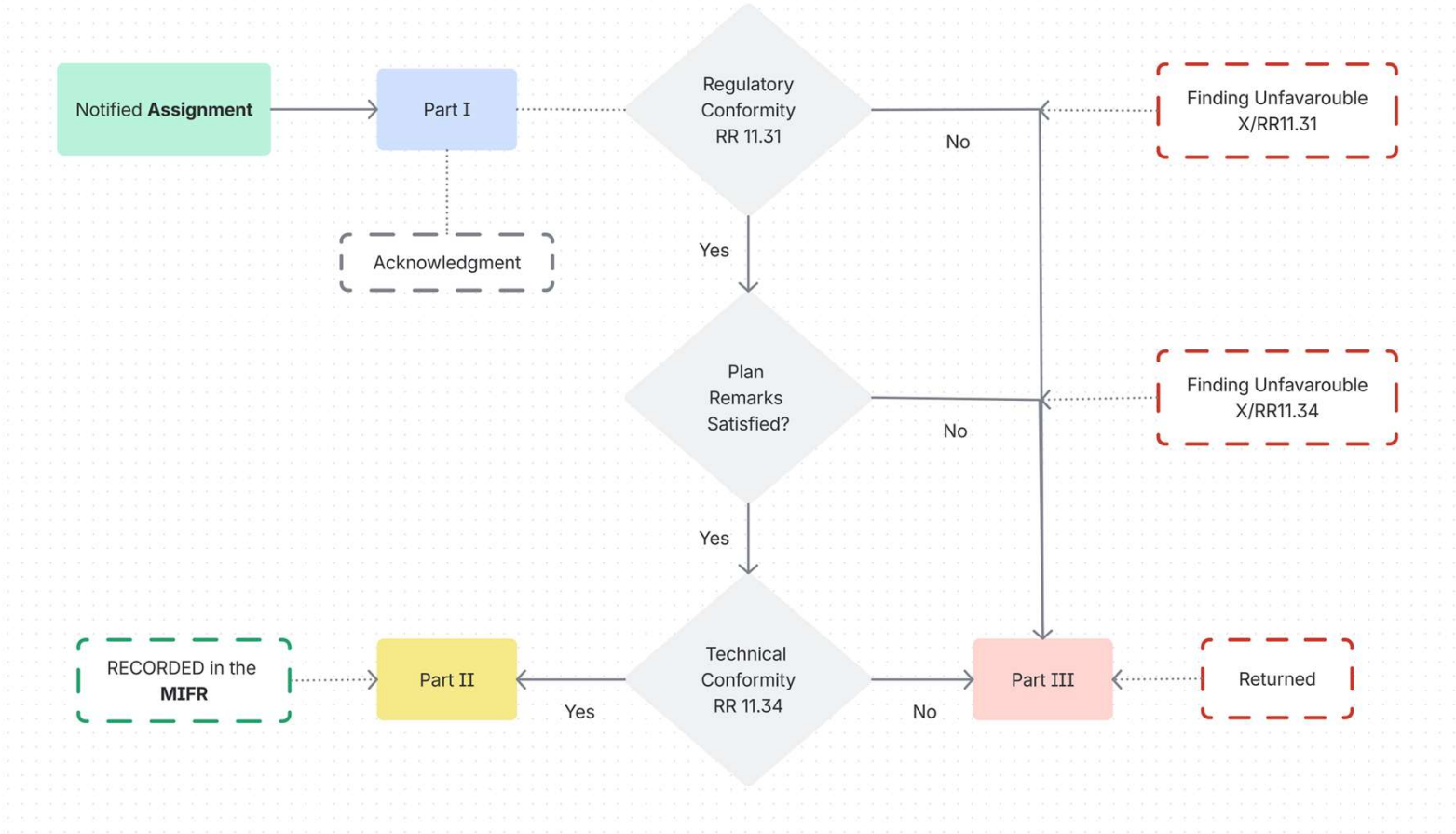


GE06 **ARTICLE 5** = MIFR Recordings

Art 4: Plan Modification



Art 5: Record in the MIFR a station when it is brought into use



Exercises

- Exercise on coordination examination **(Article 4 GE06)**
- Exercise on conformity examination **(Article 5 GE06)**

Coordination examination: your turn

Assignment or allotment under Article 4

Open eBroadcasting: www.itu.int/ITU-R/eTerrestrial/eBroadcasting

Sign in with your TIES credentials, or use username: user1 and password: user1

1 Set up

Open eTools.

Select GE06 on the left and GE06D Art. 4 Plan Modification on the right.

Choose New calculation and name your job.

2 Submit

Click the empty drop box to select your file.

Click Upload file, then Submit.

Return to Back to calculation History.

3 View results

Find your job. Click Refresh all until Job status is “Success”.

Open the job ID for the summary.

Under Job Output, click Adm Id to view the results.


Art 4_1S_Mykonos.txt


Art 4_1S_Nafplio.txt


Art 4_3C_Nafplio.txt


Art 4_3C_Nafplio_Reduced.txt

Conformity examination: your turn

Under Article 5 of the GE06 Agreement

Procedure

1. Open GE06Calc.
2. Select Tools, then Conformity examination.
3. Browse for the file and click Next.
4. Click Next again and wait for results.
5. Select the item of interest and click its blue number.
6. Check the results.

If needed, edit in TerRaNotices and repeat steps 2–6.

Two tasks

1 Run the conformity exam

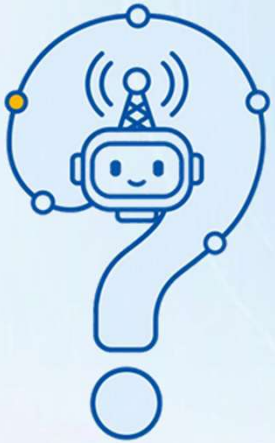
File: **GRC_3C_KYKLADES-3-29_32dBW.txt**

2 Reduce power in the same notice

Meet the interference envelope of the corresponding GE06D Plan entry, as specified in Section II of Annex 4 to the GE06 Agreement.

File: **GRC_3C_KYKLADES-3-29_30dBW.txt**

Thank you



Questions

brmail@itu.int or brbcd@itu.int