

ITUEvents

ITU Seminar on Radiocommunication Matters for Europe

24-26 June 2019
Tirana, Albania

www.itu.int/go/ITU-R/SRME-19



Regional Agreement Geneva 2006

By Broadcasting
Services Division
ITU-R



Co-Organizers:



June, 2019

Overview

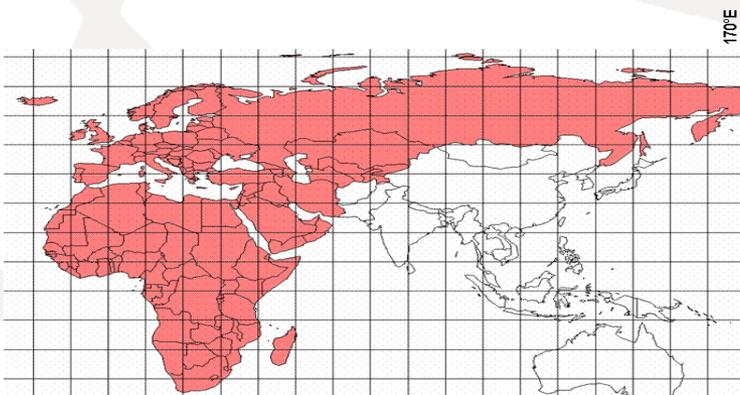
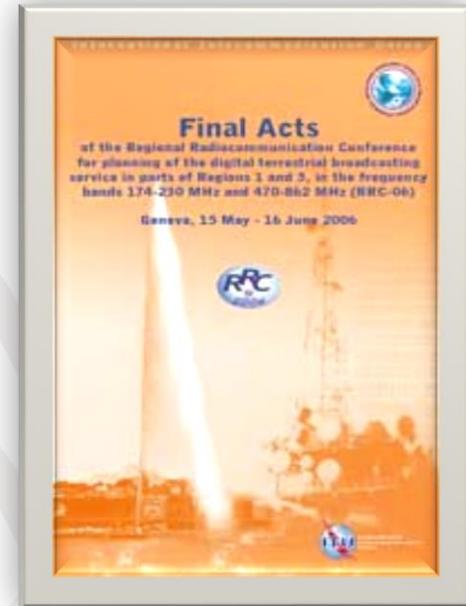


- General aspects of GE06
- Plans of GE06
- Plan modification procedure (Article 4)
- MIFR Notification procedure (Article 5)
- Exercises:
 - GE06 Coordination examination
 - GE06 Conformity examination
 - GE06 Compatibility analysis

GE06 Agreement: General Aspects



- **Adopted** by the Regional Radiocommunication Conference 15 May–16 June 2006 in Geneva
- **Entry into force: 17 June 2007**
- **Frequency Bands:**
 - 174-230 MHz
 - 470-862 MHz
- **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

Plans of the GE06 Agreement



- **GE06 Agreement contains 3 Plans:**
 - **Digital Plan** (GE06D)- Assignments and allotments Plan (§3.1.1)
 - **Analogue Plan** (GE06A) - Assignments Plan (§3.1.2)
 - Until 17 June 2015
 - Until 17 June 2020 (for VHF in 34 countries)
 - **OPS List:** existing assignments of Other Primary Services (GE06L) (§1.15)

- **Situation at the end of RRC06**
 - Digital: 70 491 assignments/allotments
 - Analogue: 94 531 assignments
(Source: other plans such as GE89 and ST61 and MIFR)

- **Current situation (June 2019)**
 - Digital: 106 397 assignments/allotments
 - Analogue: 2 169 assignments

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**Plan
Modification
procedure**

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**Article 4
GE06
Agreement**

What is a Plan Modification?



Plan modification definition

(§ 4.1 and 4.2 of Article 4)

- **Change characteristics** of an allotment or assignment already in the Plans;
- **Add** an allotment or assignment to the Plans;
- **Add an assignment stemming from an allotment** (converted assignment) to the digital Plan;
- **Suppress** from the Plans an allotment or an assignment.

Allotments in GE06



Allotment: area covered by a Single Frequency Network (SFN) characterized by:

- Type of reference network (RN1, RN2, RN3, RN4)
- Interference envelope: defines the level of interference of the allotment

Assignment stemming from an allotment or converted assignment:

Assignments which are the result of converting an allotment recorded in the Plan into 1 or more assignments.

Example: Allotments in Albania for DVB-T in UHF (2011)



Coordination examination and conformity examination



Coordination examination:

Methodology (Section I of Annex 2 of GE06 Agreement) to determine the potentially affected administrations with which coordination is required. This is done for:

- **Additions to the Plan**
- **Modifications to the Plan**

Conformity examination:

Methodology (Section II of Annex 4 of GE06 Agreement) to determine if an assignment complies with the Plan. This is done for:

- **Converted assignments** (assignments stemming from an allotment)
- **Assignments notified to the MIFR**

Modification procedure: 3 cases



Normal procedure: Pub_req=FALSE

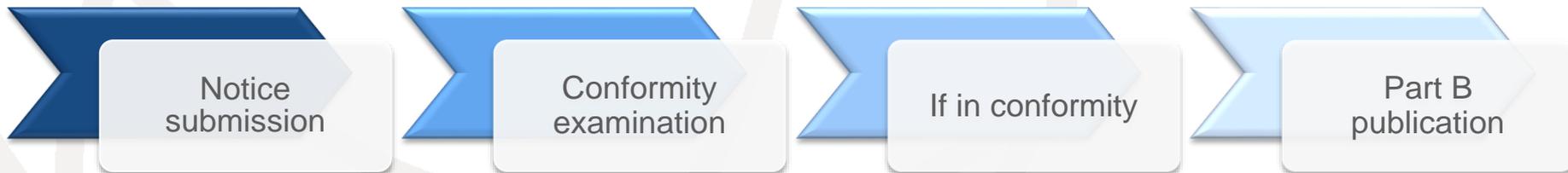
2 years and 75 days max.
between publication in Part A
and publication in Part B



Shortcut procedure Pub_req= TRUE



Converted assignment



Converted assignments can be notified directly to be recorded in the MIFR without being submitted to the Plan



Key deadlines of Article 4 in GE06

Day 0:

Date of publication in Part A

2 years an 75 days (since the publication in Part A):

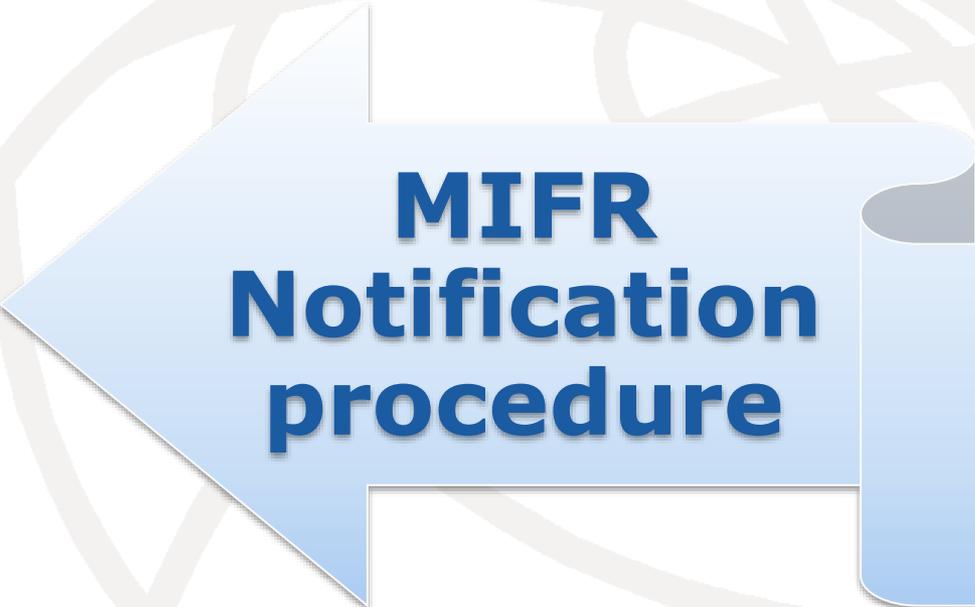
The deadline for a notifying administration to obtain all the agreements from all affected administrations. After this period, if not all agreements were reached, the proposed modifications are suppressed.

75 days (since the publication in Part A):

Administrations who did not send their decision (objection or agreement), are considered as "no agreement."

40 Days (affected administration rights):

- § 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

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**MIFR
Notification
procedure**

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**Article 5
GE06
Agreement**

GE06 Article 5 = Article 11 Radio Regulations



- **GE06 Article 5:** when an administration proposes to **bring into use an assignment to a station**, it shall notify to the Bureau, in accordance with the provisions of Article 11 of the Radio Regulations.

- **Before notifying** the concerned assignment **must be RECORDED in the Plan:**
 - **Exception** for the assignment stemming from allotment, which can be notified directly under Article 5

Exercises

- ✓ *Exercise on coordination examination (eBCD)*
 - when adding or modifying assignments/allotments
 - The output is the list of potentially affected administrations

- ✓ *Exercise on conformity examination (GE06Calc)*
 - for submissions to the MIFR or for converted assignments
 - The output is «in conformity» or « not in conformity»

- ✓ *Exercise on compatibility analysis (eBCD + GE06Calc)*
 - for any proposed station
 - the output is the list of interfered/interfering stations with all the technical details and map visualization

Exercise on coordination examination

(for an assignment or allotment under Article 4)

(SUI_example_DVB-T.txt)

- Open eBCD tools: www.itu.int/ITU-R/eBCD/ebcd.aspx
- Click on eTools
- Access: **TIES username** and **password** or
Username: **user1** Password: **user1**
- Click on New calculation
- Keep **GE06D Art. 4 Plan Modification**, which by default
- Name your job using the "label your submission" box
- Browse→ Choose the file "SUI_example_DVB-T.txt"
- Click on "Upload file"
- Click on "Submit"
- Click on "Back to calculation History" to see the status of your job
- Find your job, and click on Refresh until Job status is 'Success'
- Click on your job Id.
- Click on the Job output
- Click on the "Coordination Exam Result" tab

Exercises on conformity examination under Article 5 of the GE06 Agreement

Procedure

1. Open GE06Calc
2. Select Tools → Conformity examination
3. Browse the file and click Next
4. Once again click Next and wait for results
5. Select item of interest and click on the blue number
6. Check the results
7. If necessary, modify the notice, using TerRaNotices tool, and repeat steps 2-6

Exercises

1. File: Art5_GT1_example.txt

2. Apply power reduction to the previous notice to comply with the interference envelope of the corresponding GE06D Plan entry (Section II of Annex 4 to the GE06 Agreement).

File: Art5_GT1_example_39.6dBW.txt

Exercise on compatibility analysis (SUI_example_DVB-T.txt)

Compatibility analysis for a DVB-T/T-DAB assignment or allotment:

- Open eBCD application
- Access: **TIES username** and **password** or
Username: **user1** Password: **user1**
- Click on eTools
- Click on New calculation
- Select **GE06D Compatibility Analyses**
- Browse→ Choose the relating file
- Click on Upload file
- Click on Complete Submission
- Name your job → Submit
- Click on Back to calculation History
- Find your job, and click on Refresh until Job status is 'Success'
- Click on View→ Download results
- Save the file on your Disk, Unzip it
- Open GE06Calc→ File→Open Compatibility analysis results file...



Thank you!

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