



**AGENDA ITEM 3 : FREQUENCY ASSIGNMENT PROCEDURES
BEST PRACTICES SHARING**

**NATIONAL FREQUENCY MANAGEMENT
PRACTICES— CÔTE D'IVOIRE**



**INTERNATIONAL
CIVIL AVIATION
ORGANIZATION**





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Outline of the presentation



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Introduction

02

Aeronautical regulations
relating to aeronautical
telecommunications

03

State of aeronautical
communications in Côte
d'Ivoire

04

Frequency assignment
process

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01 Introduction

Presentation
Objectives



1. Introduction

Presentation Objectives



- To provide an overview of national regulatory provisions relating to the aeronautical radio frequency spectrum in Côte d'Ivoire
- Present the situation of Aeronautical communications in Côte d'Ivoire
- Present the process of assigning aeronautical frequencies in Côte d'Ivoire

1. Introduction

1.1 Système d'Aviation civile de Côte d'Ivoire



Tutelle hiérarchique
chargée de l'aviation civile



Ministère des Transports



Bureau Enquête Accident

Administration de
l'aviation civile



ANAC (Autorité Nationale de l'Aviation Civile)



Prestataires de services



Fournisseurs de services de navigation aérienne



Exploitants d'aérodromes



Compagnies nationales de transport aérien



Organismes de maintenance



Prestataires de services aéronautiques



Compagnies internationales desservant le pays



Aviation légère & drones



Organismes de formation

1. Introduction

1.2 Système d'aviation civile (suite)



L'ANAC est garante de la sécurité et de la sûreté de l'aviation civile en Côte d'Ivoire.

Chiffres clés 2024



1

Aéroport international



2 535 451

Passagers (2024)



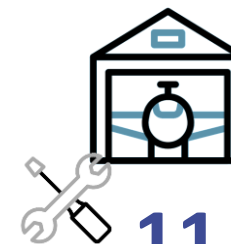
21

compagnies aériennes internationales desservant le pays



7

aérodromes ouverts à la Circulation aérienne publique (dont 6 recevant des vols domestiques)



11

Organismes locaux de maintenance des aéronefs



6

Compagnies aériennes de droit ivoirien

02

Aeronautical regulations relating to aeronautical telecommunications

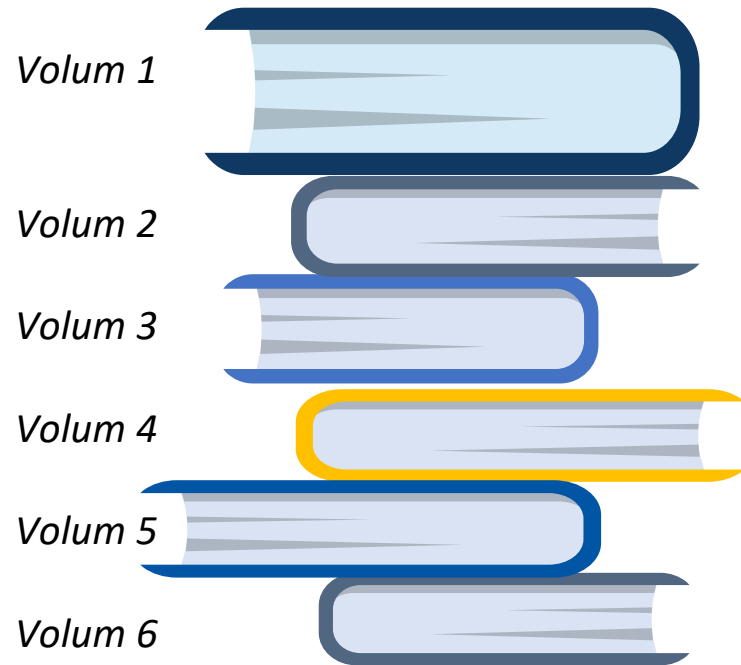


2. Aeronautical regulations of Côte d'Ivoire relating to aeronautical telecommunications

Regulations

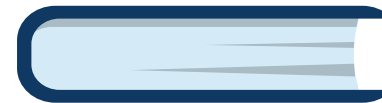
Transposition of Annex 10 volumes 1 to 6 into the Côte d'Ivoire Aviation Regulations (RACI)

RACI 5004



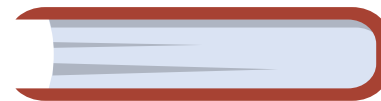
Guidance material for Operators

GUID ANS 5124



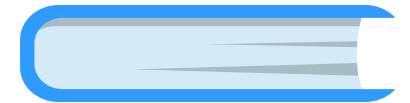
Guide for request for Aeronautical Frequency Assignments

GUID ANS 5125

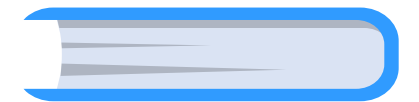


Guide to the Management of Aeronautical Frequency Interference

Civil Aviation Authority Procedures (Inspectors)



Procedure for the assignment of aeronautical frequencies



Procedure for the management of aeronautical frequency interference cases

03

State of play of
aeronautical
telecommunications
systems in Côte
d'Ivoire



3. State of aeronautical communications in Côte d'Ivoire



Airports/ Aerodromes

- Abidjan Félix-Houphouët-Boigny International Airport, equipped with a control tower and advanced communication systems to manage air traffic
- Domestic airports served by Air Côte d'Ivoire (6)
- Private aerodromes, heli platforms, heliports (aeronautical communications)



Air Traffic Control (ATC) Services

- operated at the airports of Abidjan, Yamoussoukro, Bouaké, San Pedro (management of aircraft movements, communication with pilots and maintenance of airspace safety)
- Two ANSP (ASECNA, SODEXAM)



Surveillance Systems

- Secondary Radar (ABJ), Satellite ADS B (ASECNA) deployed to monitor the position of aircraft in airspace in real time, thus enabling effective traffic control)



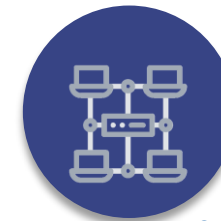
Navigation Systems

- VOR/DME (7) , the ILS (Instrument Landing System) instrument landing equipment (4) to ensure accurate landings in bad weather.



Aircraft operators

- RCI Registered Aircraft (TU)
- Six national airlines
- 11 maintenance organizations
- 1 flying club



Ground Communication Networks

- ground communication networks, including radio links, voice communication systems, and data links to ensure smooth communication between aircraft and ground personnel.



3. State of aeronautical communications in Côte d'Ivoire

3.2 CNS Systems



COMMUNICATION

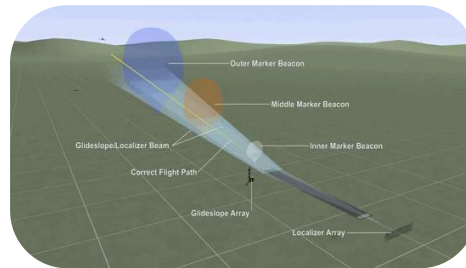
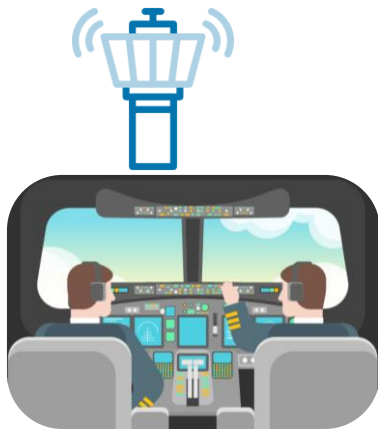
Frequencies for voice communication systems (HF, VHF, SB-VHF, ATIS, etc.) and data links (CPDLC),

NAVIGATION

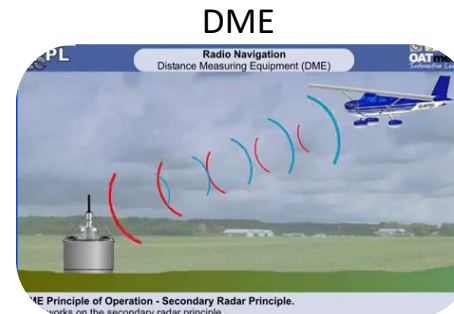
Frequencies for aeronautical navigation systems (NDB, VOR, DME, ILS, etc.)

SURVEILLANCE

Frequencies for surveillance (primary RADAR, SSR, ADSB, ADSC, etc.)



Instrument Landing System



04

Aeronautical frequency assignment process

4.1 Actors

4.2 Aeronautical Frequency Assignment Procedure

4.3 Flowchart of the assignment procedure



4. AERONAUTICAL FREQUENCY ASSIGNMENT PROCESS

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4.1 ACTORS

1

ANAC (Aeronautical Frequency Assignee)

- processes applications for aeronautical frequency assignments in collaboration with all stakeholders

2

Agence Nationale de Gestion du Spectre (AIGF) / National Agency for Spectrum Management

- carries out a priori frequency control and a posteriori compliance check.
- notifies the assignment of frequencies to the ITU

3

OACI (Regional Office WACAF)

- coordinates (on a day-to-day basis) frequency assignments with national civil aviation authorities

4

Requesting entity

- sends ANAC a formal request for an assignment of aeronautical frequencies.

5

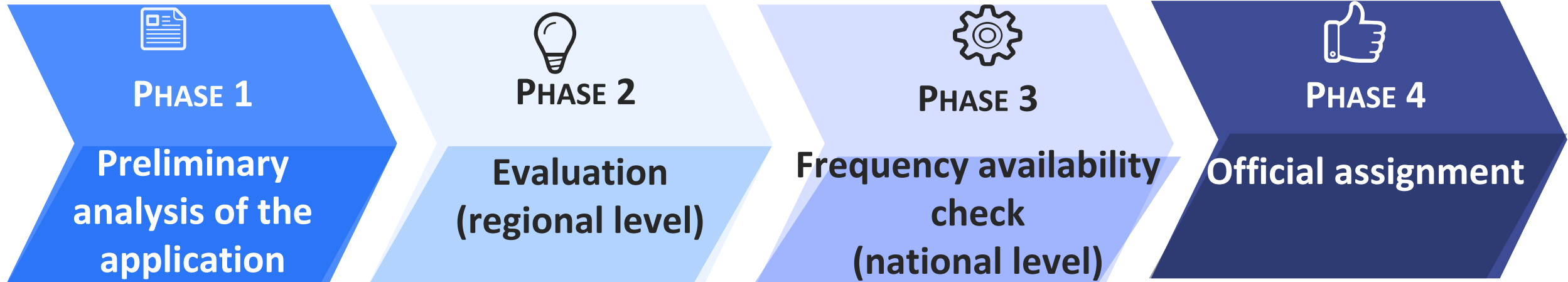
Other assignees (in the case of a shared band)

DGAMP, ARTCI, HACA



4. AERONAUTICAL FREQUENCY ASSIGNMENT PROCESS

4.2 THE STEPS OF THE PROCESS



- 1) Receipt of the file
- 2) Completeness check
- 3) Frequency selection
- 4) Verification of Frequency Availability (National Aeronautical Frequency Database)
- 5) Preliminary technical study with the ICAO VHF Finder tool

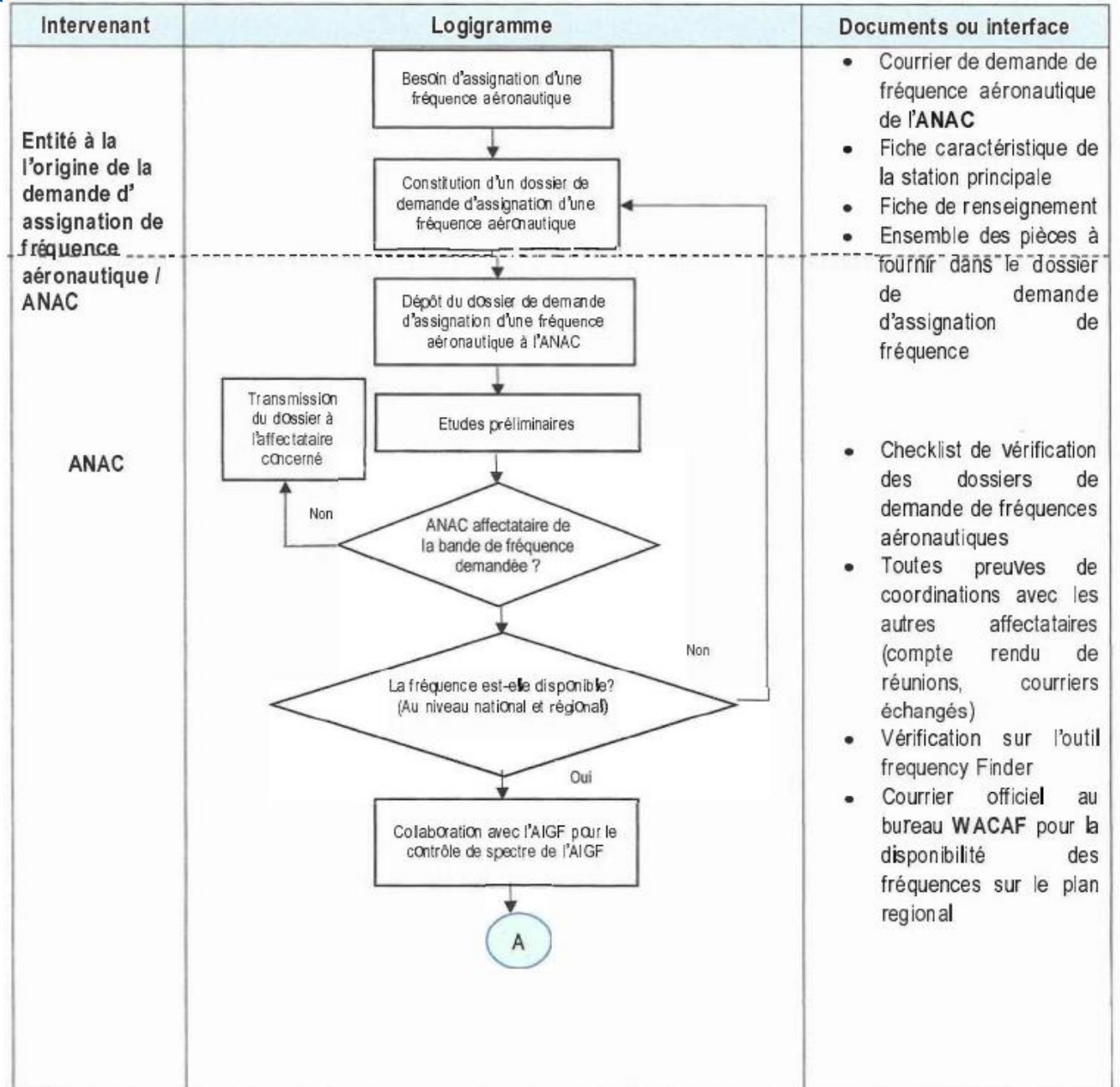
- 1) Transmission to ICAO
- 2) Electromagnetic Compatibility Study (OACI WACAF Regional Office)

- 1) Occupancy and frequency availability control by the AIGF

- 1) Issuance of a Renewable Frequency Licence (3 years)
- 2) Notification to the AIGF with a view to notification to the IUT
- 3) Facility compliance control

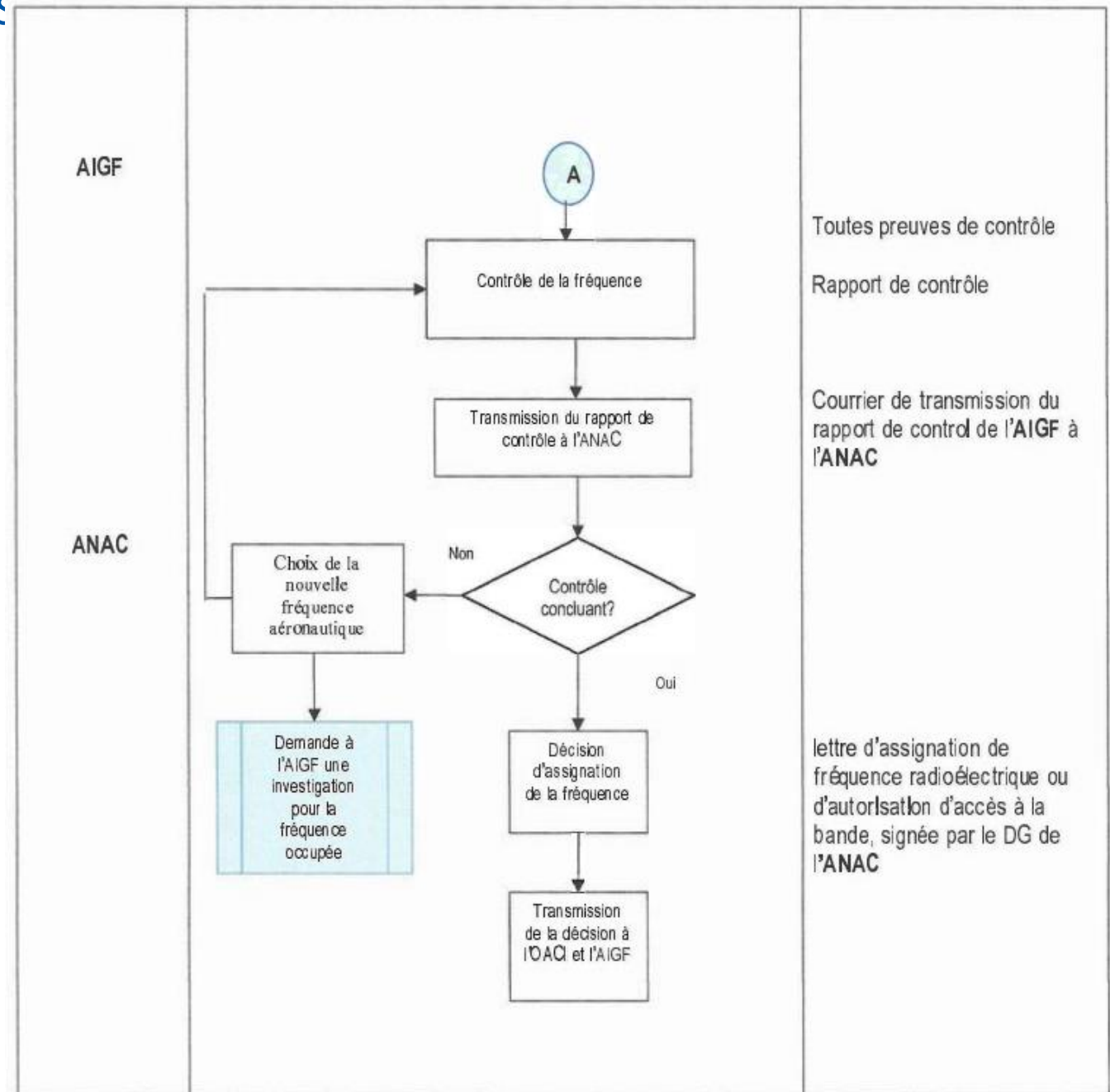
4. PROCESSUS D'ASSIGNATION DES FREQUENCES AERONAUTIQUES

4.3 Assignment flowchart



4. PROCESSUS D'ASSIGNATION DES

4.3 Logigramme de l'assignation



5 Conclusion



5. Conclusion



- Aeronautical communication systems are being modernized to enable faster, more reliable aircraft-to-ground communication
- “A continuous update of regulations and procedures to meet technological and frequency needs, supported by awareness efforts led by ANAC with AIGF and stakeholders.”
- A continuous update of regulations and procedures to meet technological and frequency needs, supported by awareness efforts led by Côte d’Ivoire CAA with AIGF and stakeholders.

Thank You

