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National frequency management practices– Côte d'Ivoire

Virtual Workshop on Aeronautical Frequency Management for the WACAF Region, from 4 to 5 December 2025

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Outline of the presentation

01 Introduction

02 Aeronautical regulations relating to aeronautical telecommunications

03 State of aeronautical communications in Côte d'Ivoire

04 Frequency assignment process

05 Conclusion

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
- Taking stock of aeronautical communications in Côte d'Ivoire
- Present the process of assigning aeronautical frequencies in Côte d'Ivoire

02

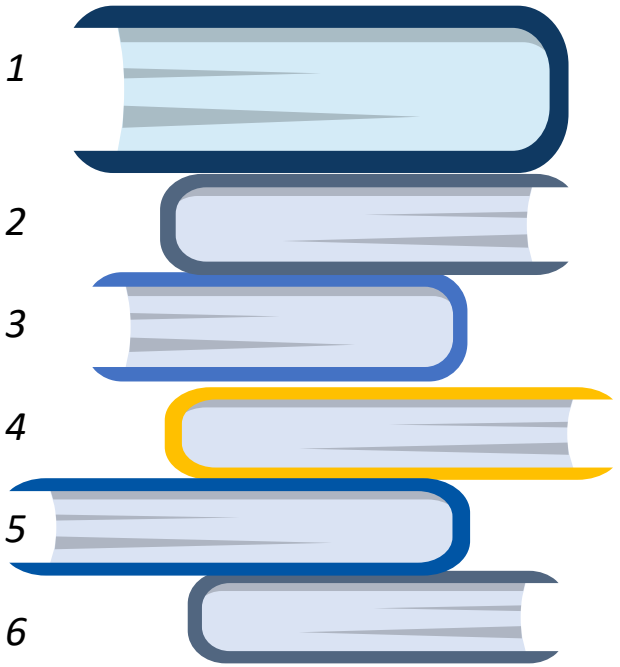
Aeronautical regulations relating to aeronautical telecommunications

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

Regulations

Transposition of Annex 10 volumes 1 to 6 into the Ivory Coast Aviation Regulations (RACI)

RACI 5004



Guide for Operators

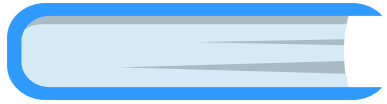
GUID ANS 5124

Guide to request for Aeronautical Frequency Assignments

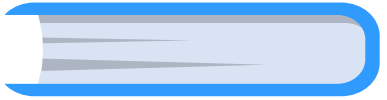
GUID ANS 5125

Guide to the Management of Aeronautical Frequency Interference

ANAC 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)
- 1 RSC

Surveillance Systems

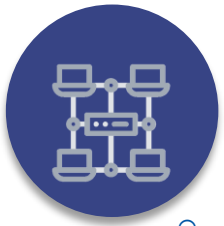
- Secondary Radar (ABJ), Satellite ADS B (ASECNA) deployed to monitor the position of aircraft in airspace in real time, thus enabling effective traffic control)

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

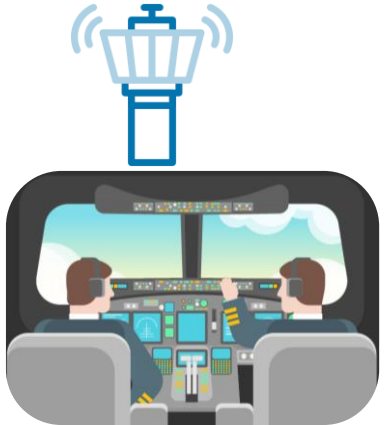
- ground communication networks, including radio links, voice communication systems, and data links to ensure smooth communication between aircraft and ground personnel.

3. State of aeronautical communications in Côte d'Ivoire

3.2 CNS Systems

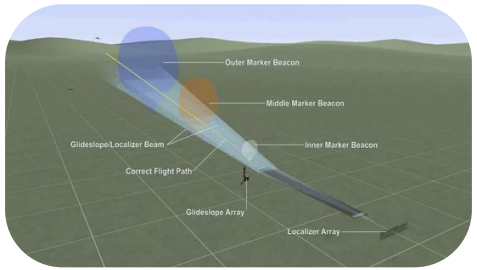
COMMUNICATION

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



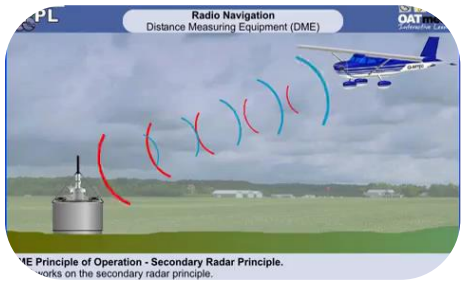
NAVIGATION

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



Instrument Landing System

DME



SURVEILLANCE

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

04

Aeronautical frequency assignment process

4.1 Actors

4.2 Aeronautical Frequency Assignment Procedure

4.3 Flowchart of the assignment procedure

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4. AERONAUTICAL FREQUENCY ASSIGNMENT PROCESS

4.1 THE DIFFERENT 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

PHASE 1

Preliminary analysis of the application

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

PHASE 2

Evaluation (regional level)

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

PHASE 3

Frequency availability check (national level)

1) Occupancy and frequency availability control by the AIGF

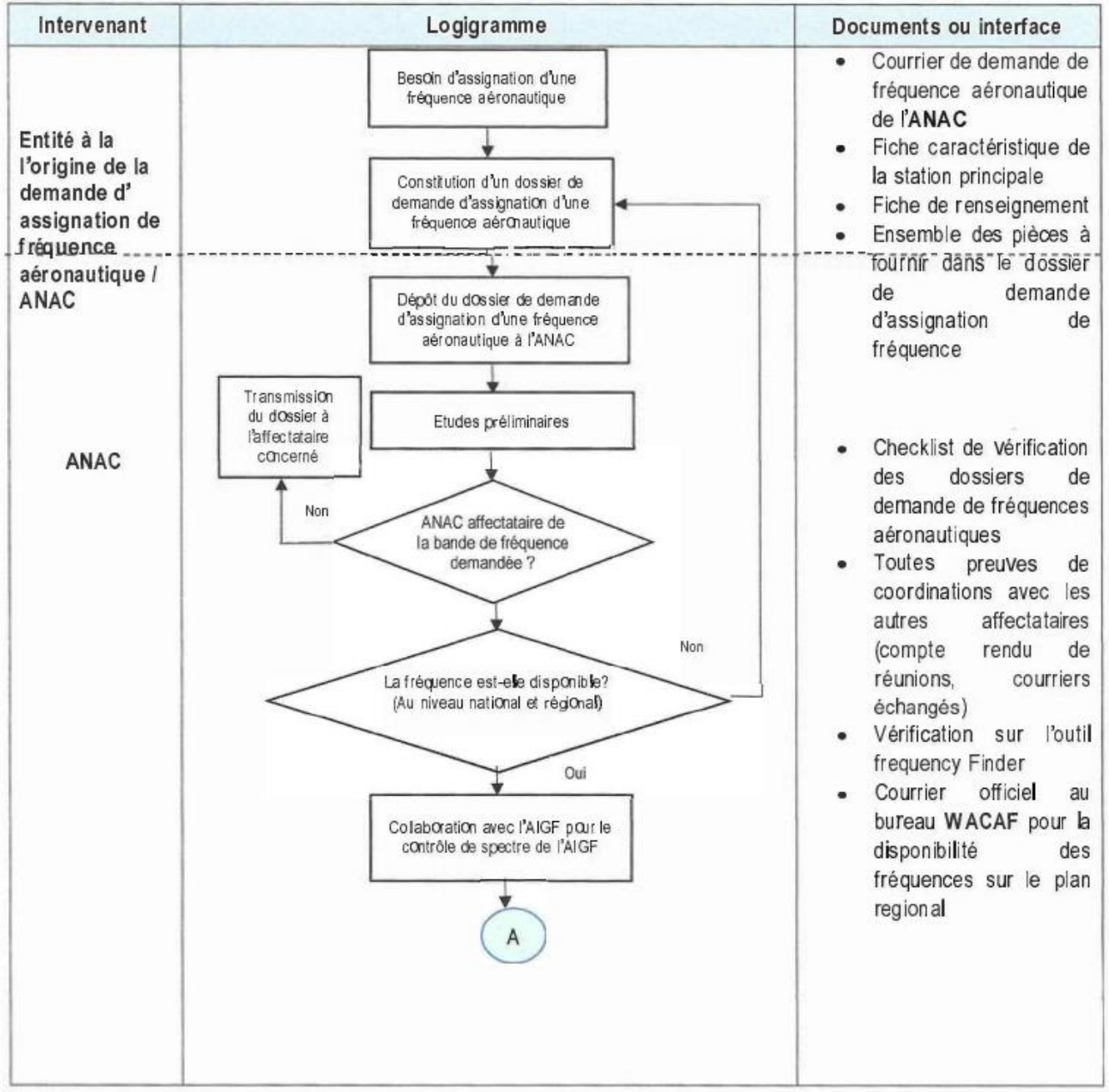
PHASE 4

Official assignment

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

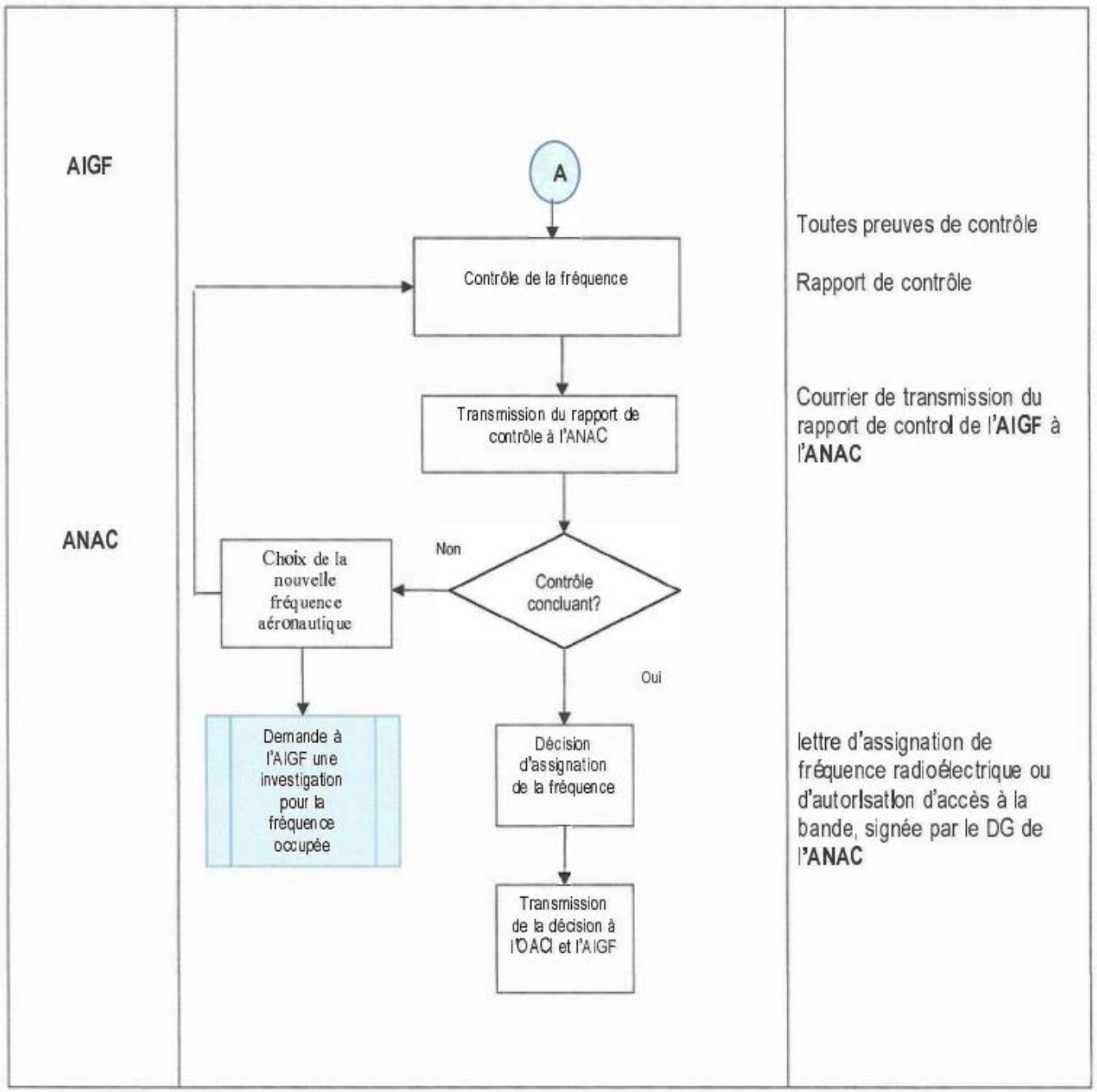
4. PROCESSUS D'ASSIGNATION DES FREQUENCES AERONAUTIQUES

4.3 Assignment flowchart



4. PROCESSUS D'ASSIGNATION DES FREQUENCES AERONAUTIQUES

4.3 Logigramme de l'assignation

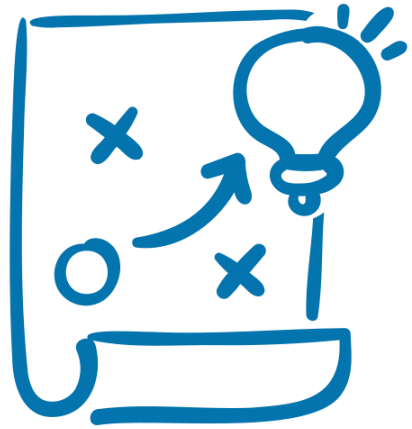


5

Conclusion

5. Conclusion

- The modernization of aeronautical communication systems is underway, incorporating advanced technologies for faster and more reliable communication between aircraft and the ground.



- A continuous process of updating regulations, guidelines, and procedures to respond to technological developments and aviation frequency requirements, accompanied by awareness-raising initiatives led by ANAC in collaboration with AIGF and all stakeholders.

- The implementation of the Memorandum of Understanding (MoU) between ANAC and AIGF, signed in 2019, promotes enhanced collaboration between ANAC and AIGF and contributes to the continuous improvement of civil aviation safety and security in Côte d'Ivoire.

Thank You

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