

INTERNATIONAL CIVIL AVIATION ORGANIZATION
**Third Meeting of the APIRG Airspace and Aerodrome Operations Sub-Group
(AAO/SG3), Virtual Meeting, 3 to 5 August 2020**
Agenda Item 3: Airspace (Safety, Capacity and Efficiency)
PARTICIPATION OF ANGOLA IN REGIONAL ACTIVITIES
(Presented by ENNA - Angola)

SUMMARY
The present Information Paper will focus on activities developed since the APIRG 22 Meeting, which demonstrates the commitment of ENNA, the Angola Air Navigation Service Provider to work close with ICAO Regional Offices in the implementation of APIRGs Decisions/Conclusions related to the improvement of Safety, Capacity and efficiency in AFI Region.
REFERENCE(S): <ul style="list-style-type: none"> • APIRG 21 and 22 Reports Decisions and Conclusions • Doc 7030, Regional Supplementary Procedures • Doc 7474, Air Navigation Plan — Africa-Indian Ocean Region • AAO SG/2 Report • TAG and AIAG Reports
Related ICAO Strategic Objective(s):

1. INTRODUCTION

1.1 Since begin July 2019 a new Air Navigation Services Provider entitled ENNA (Empresa Nacional de Navegação Aérea) arose in Angola from the split of ENANA the former Public company responsible in airports operations and air navigations services. Apart the focus to organise the internal structure, ENNA decided to give priority to the activities with regional impacts in terms of air traffic management.

1.2 As new arrived in the industry of ANSPs, ENNA understood very earlier that the big challenge to face in its first year was to start implementing projects with impacts to the improvement of safety, capacity and efficiency within Luanda FIR airspace, without forgetting the regional aspects for the benefit of international airliners.

1.3 In the following point, ENNA would like to highlight activities developed as balance of its first year in the industry, which was possible only by planning and acting regionally, by sharing and working close with neighbouring countries and international organizations.

2. DISCUSSION

2.1 Improvement of Mobile Aeronautical Services

The Angolan Air Navigation Service Provider, signed a contract with one of the Local network provider, for the improvement of VHF communications objecting the fiber optic as the primary transmission signal of the VHF remote stations, and VSAT (Satellite) link will be the backup, in order to reduce the signal delay.

Another contract with a world known telecommunication company was signed as well, in order to install new VHF radios, objecting the upgrade of radios and all components around the transmission and reception of the signal. Microwave link are expected to be installed to allow the link between Luanda Regional Control Center with the transmitter and receiver centers as back up.

Converting of analog signals to digital is another ongoing project that will allow the integration of the existing radios in order to make the network compatible by IP (Internet Protocol) and the inclusion of optical fiber as a means of transport will considerably increase the quality of communications, as well as the reliability of the system.

2.2 Navigation

To comply with AFI Doc 7474 and correct pending actions inserted in AANDD (AFI Air Navigation Deficiencies Database), as well to respond to some internal requirements in order to support some regional and domestic routes, ENNA is making efforts to accomplish with flight check for Luena, Kuito, Menongue and Catumbela VOR/DME nav aids.

2.3 AFI ATM Contingency

Pursuant to APIRG 21 held in Nairobi, Kenya, conclusion 21/05, Angola has already developed and published the national ATM Contingency Plan. Apart from this achievement, ENNA has participated in the scheduled meetings, in particular the last one which was held in Johannesburg to update and harmonize the Regional Plan.

2.4 Implementation of eleventh TAG meeting report and AIAG Recommendations:

To solve the ambiguity and reduce the safety risks resulting from coordination failures, Angola published the appropriate procedures to indicate the primary, secondary and back-up communication modes.

AIAG recommendations:

- a) Develop and implement IMC procedures:
IMC procedures have been implemented for Luanda and Catumbela Airports.
- b) Consider Implementing shift supervisors:
Shift Supervisors have been implemented in Luanda, Cabinda, Catumbela, Lubango Towers, ACC North Sector and ACC South/East Sector of Luanda.
- c) Review and update ATC recurrence training to include:

Management of flight progress strip and intersector coordination between Tower/Approach boards have been done accordingly.

A specific refresher training program was planned for the current year addressed to Aerodrome, Approach and Area Controllers, unfortunately due to the situation of Covid-19 pandemic, this program is postponed.

2.5 Aeronautical Surveillance Service

ADS-C/CPDLC System is operational, and working as primary mean of communication and monitoring traffic within Luanda FIR Oceanic airspace, as well as, a backup system for Luanda Continental airspace.

2.6 Implementation of PBN

Committed on the development and implementation of PBN in AFI Region, as a highest air navigation priority for Angola. Within the scope of the application of the concept User Preferred Routes, two new ATS routes designated UY242 and UQ83 were published on 21 May 2020 and implemented on 16 July 2020 within Luanda FIR. It is important to note that, the implementation process was accomplished with the agreed principles during virtual meetings organized by ICAO.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Take good note of the information provided
