



INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICAN OFFICE

Eighth Meeting of the FANS 1/A Interoperability Team (SAT/FIT/8)
(15-16 July 2013, Dakar, Senegal)

Agenda Item 3: Review of ADS-C/CPDLC programs and Implementation activities in SAT FIRs

ADS-C/CPDLC Implementation Status in Luanda FIR

(Presented by Angola)

SUMMARY

The main purpose of this paper is to provide information to the meeting regarding the ADS-C/CPDLC implementation progress in Angolan airspace.

1. INTRODUCTION

In 2009, Angola signed a contract with THALES to supply with a radar system (PSR/SSR) for the Luanda terminal control area and ADS-C/CPDLC system for Oceanic airspace, named radar project.

But, Due to financial constrains, the project is facing a long delay period, to overcome the radar project constrains, in the end of 2011 ENANA-EP as Angolan Air Navigation Service Provider (ANSP) decided to install an ADS-C/CPDLC as a stand alone system. In 2012 invited SITA, with whom he had negotiation in past on same matter, to supply the aforementioned system.

In this regard, ENANA is pursuing the necessary steps to successful implementation of ADS-C/CPDLC with the view to enhance the safety of Air Navigation Service within the Luanda FIR.

Moreover, the project consists on the implementation of Automated ADS-C/CPDLC facilities that will enable ATCs operate through Aircom DataLink (ACCARS – SITA) with equipped Aircraft.

Furthermore, the ADS-C/CPDLC will cover the Luanda Oceanic FIR allowing the air traffic controllers to monitor the traffic and using separations applicable to the referred equipment which is a little bit similar to the radar separation, that will increase the airspace capacity in the Oceanic airspace and will also reduce the air traffic controllers workload.

2. DISCUSSION

2.1 Current Status of Implementation of ADS-C/CPDLC in Luanda FIR

- Draft proposal received from SITA on August 2012 and analyzed;
- Site survey done on October 2012 in order to finalize the Offer;
- Final Technical and financial proposal from SITA received on December 2012;
- Discussion on the project of contract since then based on National financial and legal regulations;
- Contract signed on May 2013;
- ENANA´s formal project team established by end of May 2013;
- Inception (Kick off) meeting done in Luanda, on June 2013

2.2 Short and Medium Term planned Actions

- Safety assessment and Risk analyses;
- Familiarization visit in a Portuguese speaking centre (Cap Verde) to understand basic technical and operational ADS-C/CPDLC principles is planned to be done prior to Factory Acceptance Test;
- Training & Factory Acceptance Test: Planned by September 2013;
- Equipment delivery: Planned by October 2013;
- Equipment installation: Planned by November 2013;
- Training & Site Acceptance Test: Planned by November 2013;
- Trial base period: planned from November to February 2014
- Updated LOP with Atlántico; Johannesburg, Dakar and Accra;

- Publication of an AIC for Operational trials with Airlines and IATA during a trial period;

2.3 Long term planned Actions

- Operational Assessment;
- Publication of an AIC for starting Full operation;
- Enforcement of the Updated LOP with Atlántico; Johannesburg, Dakar and Accra;
- Sustainable maintenance policy.

3. CONCLUSIONS

The meeting is invited to note the developments related to the implementation of ADS-C/CPDLC facilities within Luanda Oceanic FIR.