



INTERNATIONAL CIVIL AVIATION ORGANIZATION

CNMC/5, SAT/FIT/10 and SAT/20

(01-05 June 2015, Abidjan, Côte d'Ivoire)

Agenda Item :

(Presented by Angola)

SUMMARY

This Information Paper presents the current status of Implementation of the Luanda ADS-C/CPDLC, CAFSAT Station Projects and VHF-ER

1. INTRODUCTION

1.1 Angola air navigation Service provider ENANA is seriously engaged in the project to implement the Luanda ADS-C/CPDLC system in the Luanda Oceanic Airspace in order to provide surveillance service and availability of data link communication, as well Luanda CAFSAT Station at the International Airport "4 de Fevereiro" with the view to provide availability of communication service through ATS/DS voice and AFTN/AMHS data circuits between Atlântico and Luanda ACCs.

1.2 Current Status of Implementation of ADS-C/CPDLC system

SITA AIRCOM ADS-CPDLC Workstation Operational and Technical Site Acceptance Test were carried out in Luanda from 24th to 26th of March 2014;

The Trial Basis with full Operational system is taking place from June 2014. These tests were successively extended due to lack of connectivity between AMHS and ADS-C systems, so the flight plans were manually entered by the controllers.

COMSOFT was in Luanda last March/2015 and made the necessary settings in the AMHS system. The flight plans are now received automatically.

The ADS-C/CPDLC system will start operating on full Operational mode from July 2015.

In March and April of 2014 were trained 18 Air Traffic Controllers in Ilha dos Açores – Portugal and from October to December were trained others 26 ATC in Mahe Island– Republic of Seychelles.

Were trained in whole 44 ATC.

1.3 CAFSAT Station

On last year of 2013 ENANA and ISDEFE of Spain signed two contracts to supply equipment and provide a service that includes the design, installation, testing and commissioning of satellite communications system in Luanda, The Luanda CAFSAT Station, which will be part of the CAFSAT network.

The project consists on the implementation of a C-Band VSAT Station in Luanda, which will establish the ATS/DS voice circuits between Luanda and Recife and provide the coordination capability between Air Traffic Controllers.

2. DISCUSSION

2.1 Current Status of Implementation of Luanda CAFSAT Station

_ Engineering civil work and the massif construction for the support of the antenna and outdoor equipment of VSAT / CAFSAT were carried out and completed in July 2014;

_ the supplier, ISDEFE Company in Spain shipped out the indoor equipment and outdoor VSAT (CAFSAT) that have been cleared through customs;

_ The pedestal and antenna dish has been installed at the site already. Equipment rack has also located in the technical room at the Luanda CCR (regional Control Center) and cables between rack and the outdoor dish antenna has been released since February this year.

_ ENANA sent invitation letter at the Angola embassy in Spain for visa application for the ISDEFE engineers in order to finalize the installation in Luanda and carry out the Site Acceptance Test.

_ INACOM (Communication Institute of Angola) already has provided the CAFSAT station License;

_ Coordinating with the companies FREQUENTIES (VCCS) and COMSOFT (AMHS) to provide their contacts to ISDEFE in order to clarify the ATS and data circuits was accomplished;

_ The administrative process between ENANA and INTELSAT has finished already, contract has been signed and the space segment is available from March 2015.

_ Trial basis period will expect to be from July 2015.

2.2 Short and Medium Term planned Actions

_ Continue contact with Brazil to ensure coordination with ground station of Recife and Luanda to effect circuit communication through AFTN Protocol AMHS;

_ Equipment installation;

_ Training & Site Acceptance Test;

2.3 Long term planned Actions

- _ Organize a familiarization visit to Portugal to ensure coordination with ground station of Lisbon to effect data circuit communication through AFTN Protocol AMHS;
- _ informing to airlines and SAT community on the establishment of the circuit;
- _ Operational Assessment;
- _ Publication of an AIC for starting Full operation;
- _ Established/Updated LoA with Atlântico;
- _Development of a sustainable maintenance policy Plan and Programme.

2.4 VHF-ER status

- _ The 6 VHF-ER remote stations already have been recovered;
- _ They were already acquired and installed new VCCS of FREQUENTIS supplier;
- _ VCCS of FREQUENTIS are fully operational;
- _ Tests of the VHF-ER system have been done, since February 2015;
- _ Trial Basis of the system started in March until July 2015;
- _ Angolan government allocated a budget to endow the Air Traffic Management with modern technical means.

2. CONCLUSIONS

The meeting is invited to take note of the information presented by this information paper.
