



**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
WESTERN AND CENTRAL AFRICAN OFFICE**

**Nineteenth Meeting on the improvement of Air Traffic Services over the South  
Atlantic (SAT/19)**

**Buenos Aires, Argentina, 6 -8 August 2014**

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**Agenda Item 3: REVIEW OF LUANDA - CAFSAT PROGRAMS AND  
IMPLEMENTATION ACTIVITIES IN SAT FIRs**

(Presented by Angola)

**SUMMARY**

The main purpose of this paper is to provide information to the meeting regarding the VSAT implementation progress in Angolan CAFSAT NETWORK COMMUNICATION.

**Reference:**

Action by the meeting in paragraph 3

**1. Introduction**

In 2011, ENANA-EP as Angolan Air Navigation Service Provider (ANSP) invited INSA/ISDEFE in order to supply an Luanda V-SAT/CAFSAT at International Airport "4 de Fevereiro" with the view to provide availability of Voice and Data Communication Service through ATS/DS and AFTN/AMHS circuits mainly within the Luanda (Angola) and Recife (Brazil) Atlantic Side FIRs.

- Last year in 2013 ENANA and ISDEFE of Spain signed two contracts to supply the 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 and data 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**

- Factory Acceptance Test was carried out in Madrid on May 2013;
- Concluding the National Company of Telecommunication Regulator (INACOM) form required certification CAFSAT station to delivered the equipment in Angola;
- Concluding the forms required to hiring space capacity and Registration of the CAFSAT station with the INTELSAT;
- Coordination and contacts between the companies FREQUENTIS (VCCS) and COMSOFT (AMHS) and ISDEFE to provide the ATS data circuits was done;
- Payment not done completely, they are missing three invoices sent recently by ISDEFE.

### **2.2 Short and Medium Term planned Actions – From July to September**

- Ensure the approval of the forms by INACOM and INTELSAT, it is not done yet;
- Task conclusion for the antenna installation. Civil works is in progress now;

- Antenna installation after civil works conclusion;
- Contact Brazil to ensure coordination with ground station of Recife and Luanda to effect circuit communication through AFTN Protocol AMHS;
- Organize a familiarization visit to Portugal to ensure coordination With ground station of Lisbon to effect data circuit communication Through AFTN Protocol AMHS, it is not done yet;
- Equipment delivery;  
ISDEFE is doing installation manual for equipment delivery after the payment of the last three invoice;
- Equipment installation;  
It will take place after ISDEFE does the equipment delivery;
- Training & Site Acceptance Test;  
The on-job-training will be held during the equipment installation at the Luanda Airport;
- Trial base period, to be held after the equipment installation at the site.

### **2.3 Long term planned Actions – From July to November/2014**

- Informing to airlines and SAT community on the establishment of the circuit;
- Operational Assessment;
- **CNMC/3-WP 11**
- Publication of an AIC for starting Full operation;

- Established/Updated LOA with Atlantic;
- Development of a sustainable maintenance policy Plan and Programme.

### **3. CONCLUSIONS**

- The meeting will be invited to take note of the information presented by this information paper.
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