

APPENDIX B



INTERNATIONAL CIVIL AVIATION ORGANIZATION WESTERN AND CENTRAL AFRICAN OFFICE

Draft Plan of Action for Luanda FIR ADS-C/CPDLC Implementation Project, Angola

I-Scope of the Project

I-1 Objectives of the Project

The Angola Air Navigation Provider ENANA is engaged in the development and the implementation of ADS-C/CPDLC with the view to enhance the safety of air navigation service within the Luanda FIR.

I-2 Consistency of the project

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.

I-3 Expected benefit

- Availability of Surveillance coverage through ADS-C beyond SSR coverage to remote continental and oceanic airspace
- Improved safety reduced incidents/accidents risks, increased access, equity and capacity
- Improved Communication Service through CPDLC in remote continental and oceanic airspace
- Improved situational awareness with ability to ensure the predictability of aircraft profile and to recall history of flight, flexibility, efficiency,
- Improved ATC ability to manage air traffic in remote iflex and AORRA airspace
- Reduced cases of unidentified aircraft
- Opportunity for revenue increase and cost-effectiveness through optimized trajectories and decreased fuel consumption
- Enhanced environment protection with the reduction of CO₂ emission
- Compliance with Global and AFI Regional requirements and SAT conclusions/decisions
- Global interoperability, participation to the ATM community
- Luanda FIR removal from the IATA IFBP applicable area
- Security
- Decreased workload for ATCOs

II- Status of Implementation of ADS-C/CPDLC in Luanda FIR

II-1 Current status

The contract between ENANA and SITA is at the finalization stage:

- 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 expected to be signed by the end of May

II-2 Short and Medium term planned Actions.

The activities during this period will be based on periodic consultation between the project management Team and the other stake holders including and not limited to ATCOs, AIS/AIM and Maintenance Personnel.

- 1. Signature of the contract: T_0
- 2. Purchase order to be sent to SITA in **June**;

- 3. Inception (Kick off) meeting by **end of June**;
- 4. Ensure the compatibility of the ADS-C system with ICAO new Flight Plans Format and with the new AMHS system.
- 5. Ensure the compatibility of the future FDPS and RDPS (SSR) with the ADS-C, the new AMHS systems
- 6. Ensure the availability of the local telephone line between the ACC and the host of the aircom provider to ensure an **end to end** service availability in accordance with the required Service Performance Level agreed in the framework of the contract
- 7. Factory training for operational and technical personnel in accordance with the schedule agreed during the inception meeting
- 8. Factory Acceptance in accordance with the schedule agreed during the inception meeting
- 9. Shipping and transport in accordance with the schedule agreed during the inception meeting
- 10. Taxes exemption and Custom clearance
- 11. Site preparation
- 12. Installation with participation of technical team;
- 13. On-site training;
- 14. On site acceptance by end of February 2014

II-3 Long term planned Actions

- The actions during this period should be formally and regularly notified to the ICAO (ESAF and WACAF Offices) IATA and SAT Chairman through the Regulator (CAA).
- Publication of an AIC for Operational trials with airlines and IATA during a period to be agreed;
- Operational assessment
- Publication of an AIC for starting full operation
- Established/Updated LoAs
- Sustainable maintenance policy Plan and Programme to be developed

II-4 Timeframe of the project

Appendix to be developed by the Project Manager ENANA before end of May 2013

III- Operational prerequisites

III-1 Operational Manual

Development of the Operational Manual including the contingency plan Development of a maintenance appropriated measures subsequent to the contingency plan

III-2 GOLD Document

Utilization of GOLD Document

III-3 Safety Risk Studies

Safety assessment and Development of the Safety Risks Document

III-4 Training of Operational personnel (ATCOs, AIS/AIM &COM Operators...)

- Training policy
- Training Plan
- Training programme

Training schedule

III-5 Training of Technical Personnel

- Training policy
- Training Plan
- Training programme
- Training schedule
- Eventual maintenance contract

IV-Interoperability

- IV-1 Neighboring concerned centres
- IV-2 Implementation of AIDC/OLDI

V-Other suggested actions

- Familiarization visit to understand basic technical and operational principles prior to the inception meeting in a Portuguese speaking centres
- Effective participation of ENANA at the SAT meeting (ICAOWACAF, Dakar, 15-19 July, 2013) with a working Paper on the status of implementation of the project.

Summary of the draft Plan of Actions for the Project of Implementation of ADS-C/CPDLC in Luanda FIR, Angola

Short and medium Term: 20 May 2013 -28 February 2014						
Order	Action	Responsible	Priority	Deadline	Status	
1	Signature of the contract	CEO/Board	High	03 May 2013	Implemented	
2	Purchase order to be sent to SITA	CEO	High	June 2013	On going	
3	Development of a working/information Paper to report to SAT/FIT/8 and SAT/18	Team Manager	High	15 June 2013		
	Meetings					
4	Inception (Kick off) meeting	Project Team/SITA	High	30 June 2013		
5	Ensure the compatibility of the ADS-C system with ICAO new Flight Plans	Technical Director	High	30 June 2013		
	Format and with the new AMHS system.					
6	Ensure the compatibility of the future FDPS and RDPS (SSR) with the ADS-C ,	Technical Director	High	30 June 2013		
	the new AMHS systems					
7	Ensure the availability of the local telephone line between the ACC and the host of	Project Team/SITA	Medium	November 2013		
	the aircom provider to ensure an end to end service availability in accordance with					
	the required Service Performance Level agreed in the framework of the contract	GYTT A ITTO				
8	Factory training for operational and technical personnel in accordance with the	SITA/Technical &	High	TBD		
-	schedule agreed during the inception meeting	Operational Directors		TDD		
9	Factory Acceptance in accordance with the schedule agreed during the inception	SITA/Project Team		TBD		
10	meeting Shipping and transport in accordance with the schedule agreed during the	SITA	Medium	TBD		
10	inception meeting	SIIA	Medium	100		
11	Taxes exemption and Custom clearance	Logistic Division	High	TBD		
12	Site preparation	Team Manager/SITA	High	TBD		
13	Installation with participation of technical team	SITA	Iligii	TBD		
14	On-site training	SITA	High	TBD		
15	On site acceptance	SITA/Project Team	High	28 February 2014		
15	Long Term: 1 st March 2014 and beyond					
Order	Action	Responsible	Priority	Deadline	Status	
16	Publication of an AIC for Operational trials with airlines and IATA during a	Operational Director	Medium	1 st March 2014		
	period to be agreed	•		-		
17	Operational assessment	Operational Director	High	1 st March 2014		
18	Publication of an AIC for starting full operation	Operational Director	High	1st May 2014		
19	Established/Updated LoAs	Operational Director	Medium	ASAP		
20	Sustainable maintenance policy Plan and Programme to be developed	Technical Director	High	1 st March 2014		

TBD: To Be Determined based on the project schedule ASAP: As Soon As Possible with the neighbors.