



AERONAUTICAL SAR IN COTE D'IVOIRE

Presented by ANAC COTE D'IVOIRE



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I-INTRODUCTION

Several air tragedies have sorely reminded the world community how essential it is to have in place effective search and rescue services (SAR) in different states. In fact, the implementation of effective SAR services is a responsibility of ICAO Contracting States, in accordance with Annex 12 of the Chicago 1944 Convention related to International Civil Aviation.

ICAO organizes ICVM audits in participating States to assess the implementation of SAR system. Cote d'Ivoire has been audited recently in 2014. ICVM 2014



CHICAGO CONVENTION (1944)

- ***ARTICLE 25***
- ***ANNEXE 12***
- ***IAMSAR VOL I, II AND III***
- ***CODE OF THE CIVIL AVIATION***
- ***RACI 5006***

SEARCH AND RESCUE



SEARCH AND RESCUE ESSENTIALLY

Permanent Public Service

Mission dedicated to air users (civil and military)

- Search and Rescue of aircrafts occupants;**
- Participation in SAR operations to save lives at sea and on land ;**



REAL SAR CASE IN COTE D'IVOIRE

- FL KQ 431 in 2000 in Abidjan
- Observation of the French AIB on the draft report on the accident of 5Y-BEN (KQ 431) →



RSC Vs RCC

The RSC of Abidjan is attached to the RCC of DAKAR. ICAO has divided the World in Search Regions. ICAO encourage Cooperation between States and institutions because SAR operations can cost a lot of money. States are encourage to

- **DAKAR FIR**
- **DAKAR FIR 2**



II-REGULATORY TEXTS

A-DECREE

B-RACI 5006

C-ORDERS

A-DECREE



The Decree N0 2014-21 of 22 January 2014 on the organization and operations of Aeronautical Search and Rescue in peacetime was signed by the President of the Republic of CI.

See



B-RACI 5006

- **Decision number 00000342 of January 31st, 2013 established the aviation regulation of Cote d'Ivoire on Search and Rescue, abbreviated RACI 5006 which is the adaptation of annex 12 to the national reality.**

C-MINISTERIAL ORDERS



- **The Ministerial Order N0 327 / MT / CAB of 20 August 2014 relating to the mandatory carriage of distress beacons onboard all aircrafts registered in Cote d'Ivoire. See**
- **The Ministerial Order N0 568 / MT / CAB of 2 December 2014 on the organization and functioning of the Aeronautical SAR National Coordination Committee called aeronautical SAR Committee. See**



ORDERS (Continued)

- **Inter-ministerial Order No 567 / MT / MIS / MPD / MPEF relating to the organization and functioning of Abidjan Rescue Sub-Center "RSC Abidjan" See**



III-ORGANIZATION

A-SAR COMMITTEE

B-BEC-SAR (SAR COORDINATION OFFICE AT THE CAA)

C-SAR INSPECTORS AT THE CAA

D-RSC OF ABIDJAN

A-SAR COMMITTEE



NATIONAL SAR COMMITTEE MEMBERS:

- **MINISTRY OF CIVIL AVIATION**
- **MINISTRY OF INTERIOR AND NATIONAL SECURITY**
- **MINISTRY OF FOREIGN AFFAIRS**
- **MINISTRY OF DEFENSE**
- **MINISTRY OF FINANCE**



SAR COMMITTEE (CONTINUED)

- **MINISTRY IN CHARGE OF NATIONAL BUDGET**
- **MINISTRY IN CHARGE OF PUBLIC HEALTH**
- **MINISTRY IN CHARGE OF TELECOMMUNICATION AND INFORMATION SYSTEMS**
- **DIRECTOR GENERAL OF ANAC**
- **HIGHER CHIEF IN COMMAND OF AIR FORCES**
- **HIGHER CHIEF IN COMMAND OF GROUND FORCES**
- **HIGHER CHIEF IN COMMAND OF MARITIME FORCES**
- **THE CHIEF OF THE RSC**

B-SAR COORDINATION OFFICE



THE OFFICE is established by the Presidential Decree of Jan 22, 2014.

- **OFFICE IS AT CAA UNDER DG'S SUPERVISION**
- **ENSURE THE SAR COMMITTEE SECRETARIAT**
- **COORDINATE BETWEEN ALL NATIONAL AND INTERNATIONAL ENTITIES INVOLVED IN SAR**

C-SAR INSPECTORS



THE CAA HAS 3 SAR INSPECTORS FOR SAR SYSTEM INSPECTION ROUTINE

D-RSC



The RSC is located at the Ivorian Air Force Base, under the supervision of its higher Chief Commander. There are about 20 air-force partners trained as SMCs ready for SAR ops.

RSC (Continued)



The RSC possess the following aircrafts for SAR operations:

- **01 KING AIR 350**
- **01 BEECHCRAFT 1900**
- **01 DAUPHIN S 365 N**
- **01 DAUPHIN S 365 N2**

RSC (Continued)



In cooperation with the National Marine, these equipments are available to be used in SAR operations:

- **EMERGENCE POWER**
- **BOUCLIER POWER**
- **CAPITAINE DE FREGATE SEKONGO POWER**



IV-PARTNERSHIP

A-LOCAL PARTNERS

B-FOREIGN PARTNERS

C-SAR AGREEMENTS

D-BENCH MARKING

A-LOCAL SAR PARTNERS



We are working on establishing a solid relationship with many local companies in the industry who can potentially contribute in case of real crisis by signing sound agreements:

- **AEROCUB**
- **NHV**
- **IAS**
- **IVOIREHELICOPTERE**
- **AIR COTE D'IVORE**
- **DGAMP**
- **AERO CORPORATE**
- **ADRASEC ABIDJAN**

LOCAL SAR PARTNERS (CONTINUED)



- **NATIONAL POLICE**
- **CUSTOMS**
- **AIRPORT POLICE**
- **NATIONAL MARINE**
- **UN FORCES IN CI**
- **FRENCH FORCES IN COTE D'IVOIRE**

B-FOREIGN PARTNERS



- **ROYAUME DU MAROC**
- **MCC LOS PALOMAS**
- **RCC DAKAR**
- **ISMI (L'Institut de Sécurité Maritime Interrégional (ISMI) – ARSTM)**
- **COSPAS SAR-SAT**
- **ICAO**
- **ROBERTS FIR**



NB: COSPAS SAR-SAT DATA BASE ACCESS

- **WE ARE ABLE TO ADD OUR NATIONAL BEACONS INFO TO COSPAS DATA BASE**
- **THAT CONCERNS AIRCRAFTS REGISTERED IN COTE D'IVOIRE**
- **WE HAVE OUR SPOC**
- **WE RECEIVE OUR ALERTS FROM LOS PALOMAS MCC IN SPAIN**

[COSPAS INFO](#)

[IVORIAN BEACONS ON COSPAS](#)

C-SAR AGREEMENT PROJECTS



- ***BURKINA***
- ***GHANA***
- ***SENEGAL***
- ***MALI***
- ***GUINEA***
- ***LIBERIA***
- ***MAROCCO***



D-BENCH MARKING and TRAINING

- ***SINGAPOUR (SAA ACADEMY, RCC, AND MRCC)***
- ***RCC DAKAR (Visit to the RCC for information)***
- ***RCC et MRCC Morocco*** →
- ***COSPAS SAR-SAT (Montreal, CANADA)***
- ***ICAO (Montreal, CANADA)***

IV-FUNDING



THERE ARE THREE TYPES OF FUNDING:

- THE BEC-SAR AND THE INSPECTORS ARE FUNDED BY THE CAA BUDGET**
- THE RSC IS FUNDED BY THE STATE BUDGET**
- THERE IS A BUDGET FOR POSSIBLE SAR EVENT**

THE LAST 2 LINES ABOVE HAVE BEEN REGISTERED IN THE NATIONAL DEVELOPMENT PLAN FOR 2016-2020

V-CONCLUSION



A-ACTIONS ACHIEVED

- ***Regulatory texts signed***
- ***SAR committee in place and functioning***
- ***Technical Secretariat in place for coordination***
- ***Air Force personnel trained as SMC***
- ***Many bench marking and training***
- ***Many MoU projects (Ghana, Burkina Faso, Sénégal, Los Palomas MCC)***
- ***Cooperation with Maritime SAR (DGAMP)***

CONCLUSION



B-DIFFICULTIES ENCOUNTERED

- ***Transversality of the Subject***
- ***Funding SAR System is difficult***
- ***Communication issues***
- ***Civil – Military cooperation not easy (one needs to be very diplomatic)***
- ***Hard to sign Inter-state SAR agreements***
- ***Hard to organize SAR exercises***

CONCLUSION



C-RECOMMENDATIONS

- ***More workshops related to SAR***
- ***Plan Joint SAR Exercises among states in the region***
- ***Work on SAR Agreements by taking advantage of existing regional organizations (CEDEAO, UEMOA, ASECNA, AND OTHERS)***
- ***Encourage States to set up harmonized SAR funding systems***
- ***Encourage States to get more interested in Cospas-Sarsat***
- ***States should Share information as much as possible***



THANK YOU ALL