CAMEROON CIVIL AVIATION AUTHORITY (CCAA)

CORSIA IMPLEMENTATION IN CAMEROON

PREPARED AND PRESENTED BY NDUNGO Olive

Chief of Service for Environment – Division of Air Transport/CCAA, CORSIA FOCAL POINT

Dakar, 14-16 June 2022

PLAN

1. INTRODUCTION OF CORSIA IN CAMEROON
2. CURRENT STATUS OF CORSIA IN CAMEROON
3. PERCEPTION OF THE CORSIA CONCEPT IN CAMEROON
4. CHALLENGES
5. SUCCESS STORIES
6. PERSPECTIVES

1. INTRODUCTION OF CORSIA IN CAMEROON

INTRODUCED IN CAMEROON IN EARLY 2017

- Explicative note addressed to the attention of the Director General on the CORSIA concept for possible considerations

- CORSIA concept equally presented to the National Action Plan Team Members (NAPT) for the mitigation of CO2 emissions reduction from international aviation. The NAPT is represented with members from 7 Administrations: Ministry of Transport, Environment, Nature Protection and Sustainable Development, National Airline Operator, Refined Hydrocarbon Services, Airport Authority, ASECNA, CCAA

2. CURRENT STATUS OF CORSIA IN CAMEROON

- **Member of the pilot phase – joined CORSIA on 5th November 2018**

- **Decision to join CORSIA was inspired by:**
  - Deliberations from the NAPT gave a wider view of concept
  - Inspired by the joint Regional Action Plan of ECCAS
  - Technical assistance from ICAO and Buddy partnerships
  - Gather ample information on carbon offsetting requirements
  - Gain experience in preparation for the mandatory phase

REPUBLIQUE DU CAMEROUN
Paix – Travail – Patrie

MINISTERE DES TRANSPORTS

SECRETARIAT GENERAL

DIVISION DE L'AVIATION CIVILE

N° 0530 /L/MINT/SG/DAC/CB/CEA2

REPUBLIC OF CAMEROON
Peace – Work – Fatherland

MINISTRY OF TRANSPORT

SECRETARIAT GENERAL

CIVIL AVIATION DIVISION

Yaoundé, the 05 NOV 2018

THE MINISTER
TO
The Secretary General
International Civil Aviation Organization(ICAO)
999Robert-Bourassa Boulevard, Montreal, Quebec
Canada H3C 5H7
Email : icaohq@icao.int
Tel : +1 514-954-8219
Fax : + 1 514-954-6077
CANADA

Subject: *Cameroon's intention to join the Carbon offsetting and Reduction scheme on International Aviation (CORSIA).*

Madame,

By Resolution A39-3, the Assembly decided on the measures to adopt for the implementation of the Carbon Offsetting and Reduction Scheme on International Aviation (CORSIA).

In this regards, I am pleased to announce the decision of Cameroon voluntarily participate in the pilot phase of the project which goes operational from 2021-2023.

I understand that the amount of CO_2 emissions that the Cameroonian aeroplane operators will have to offset as from 2021 will be taken into consideration in accordance with the provisions of Resolution A39-3(11(c)(11).

*Accept, **Madame**, the assurance of my highest consideration./-*

Copy: - CCAA

NGALLE BIBEHE Jean Ernest Massena

2. CURRENT STATUS OF CORSIA IN CAMEROON

THE ECCAS MEMBER STATES

COMMUNAUTE ECONOMIQUE DES ETATS DE L'AFRIQUE CENTRAL
COMUNIDADE ECONOMICA DOS ESTADOS DA AFRICA CENTRAL

CEEAC

ECONOMIC COMMUNITY OF CENTRAL AFRICAN STATES
COMUNIDAD ECONOMICA DE LOS ESTADOS DEL AFRICA CENTRAL

ECCAS

PLAN D'ACTION REGIONAL POUR LA REDUCTION DES EMISSIONS DE CO_2 ISSUES DE L'AVIATION INTERNAIONALE POUR L'AFRIQUE CENTRALE

Octobre 2016

Tableau 1 : Superficie des pays de l'Afrique Centrale

Pays	Superficie en Km^2
Angola	1 247 000
Burundi	27 800
Cameroun	475 500
Congo	342 000
Gabon	267 670
Guinée Equatoriale	28 050
République centrafricaine	623 000
République Démocratique du Congo	2 344 885
Rwanda	26 300
Sao Tomé et Principe	960
Tchad	1 284 000
Total	6 640 490

3. PERCEPTION OF THE CORSIA CONCEPT IN CAMEROON

CONTRIBUTION IN THE FIGHT AGAINST CLIMATE CHANGE

- Be part of a global carbon offsetting scheme
- Great opportunity to promote the AO and explore new routes
- Envisaged benefits in long term
- Positive at the level of the Government, AO and the civil society

4. CHALLENGES

- **MAIN CHALLENGES WERE TO EXPLORE AND UNDERSTAND THE CORSIA LEGAL FRAMEWORK AND TO SENSITIZE THE AO**

CHALLENGES ON THE CORSIA LEGAL FRAMEWORK INCLUDED:

- Applicability of MRV requirements
- Approval of the AO's EMP
- Verification of AO's Emissions Report
- Accessing, exploring the CCR
- Setting up a regulation on CORSIA for Cameroon

4. CHALLENGES

CHALLENGES WITH THE AO

CHALLENGES WITH THE AO INCLUDED:

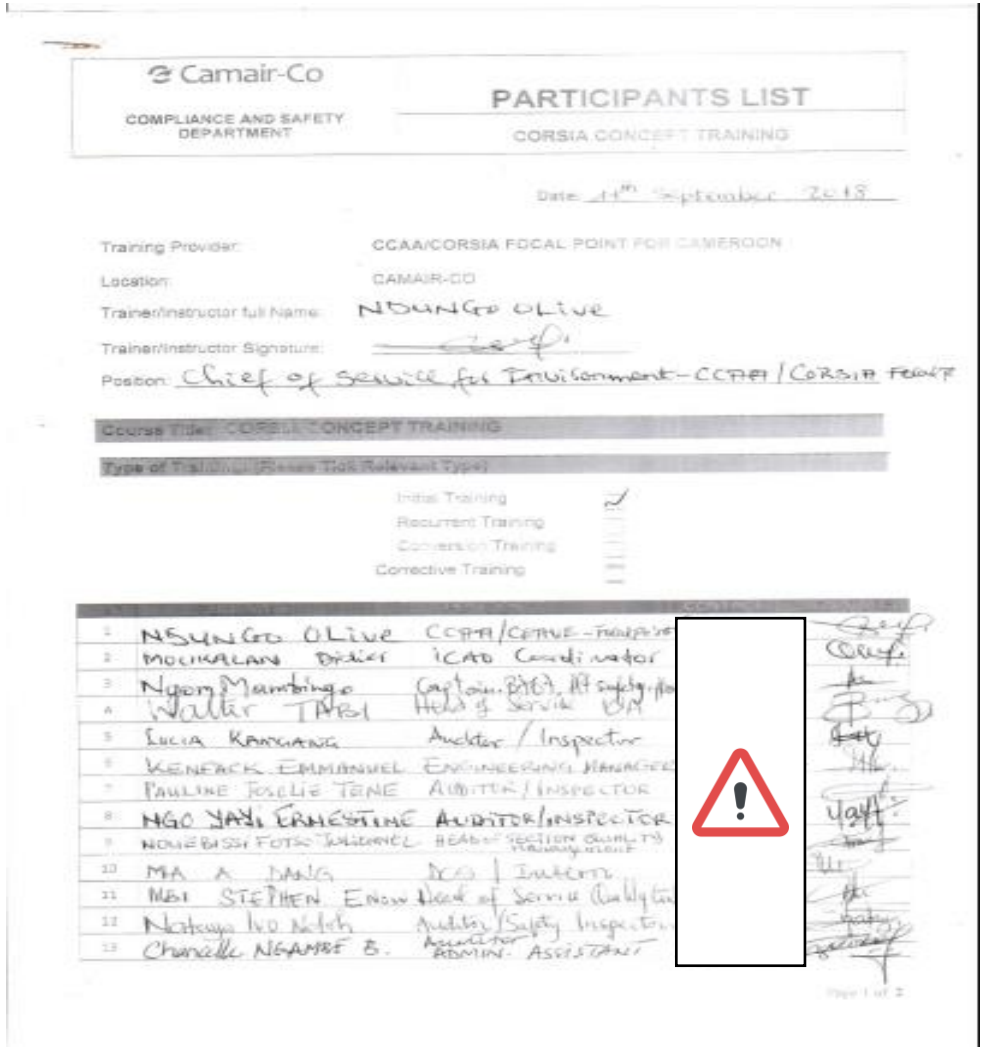
- Sensitization on the CORSIA concept
- Nominating a Focal Point
- Elaborating the EMP
- Data collection and slight delays at the beginning

5. SUCCESS STORIES

5.1) MASSIVE PARTICIPATION OF THE AO AT THE CORSIA INITIAL TRAINING

5. SUCCESS STORIES

- **LIST OF PARTICIPANTS – DAY 1 OF THE CORSIA INITIAL TRAINING AT CAMAIR-CO**



Camair-Co

COMPLIANCE AND SAFETY DEPARTMENT

PARTICIPANTS LIST

CORSIA CONCEPT TRAINING

Date 11th September 2018

Training Provider: CCAA/CORSIA FOCAL POINT FOR CAMEROON

Location: CAMAIR-CO

Trainer/Instructor full Name: NDUNGO OLIVE

Trainer/Instructor Signature:

Position: Chief of Service for Environment – CCAA / CORSIA FOCAL POINT

Course Title: CORSIA CONCEPT TRAINING

Type of Training (Please Tick Relevant Type)

Initial Training ✓

Recurrent Training

Conversion Training

Corrective Training

1	NDUNGO OLIVE	CCAA/CORSIA - FOCAL POINT
2	MOCHALAN DIDIER	ICAO Coordinator
3	Ngom Mambingo	Captain, B767, IT Safety Mgr
4	Walter TABI	Head of Service QA
5	LUCIA KANGANG	Auditor / Inspector
6	KENEACK EMMANUEL	ENGINEERING MANAGER
7	PAULINE JOSELIE TENE	AUDITOR / INSPECTOR
8	NGO YAM ERNESTINE	AUDITOR/INSPECTOR
9	NOUEBISSI FOTSO EMMANUEL	HEAD OF SECTION QUALITY MANAGEMENT
10	MA A DANG	DCG / INTERN
11	NBI STEPHEN ENOW	Head of Service Quality
12	Notsuya IVO Nolch	Auditor/Safety Inspector
13	Chanelle NGAMBE B.	Auditor ADMIN. ASSISTANT

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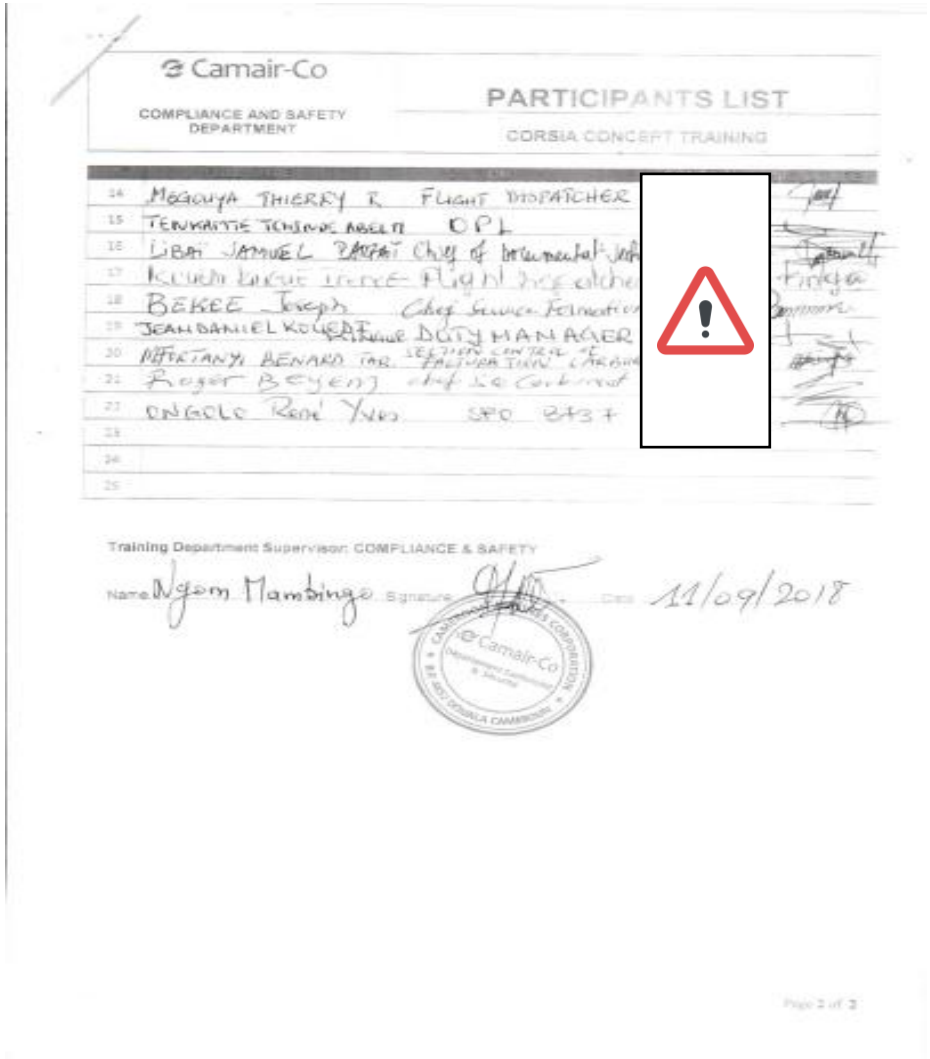

Camair-Co

COMPLIANCE AND SAFETY DEPARTMENT

PARTICIPANTS LIST

CORSIA CONCEPT TRAINING

14	MOGUIYA THIERRY R	FLIGHT DISPATCHER
15	TENKAITIE TCHINDE ABEL	OPL
16	LIBAI SAMUEL DAPAI	Chief of Instrumental
17	KUEKA LUKUE IRENE	Flight Dispatcher
18	BEKEE Joseph	Chief Service Formation
19	JEAN DANIEL KOUEDE	DUTY MANAGER
20	NFEKTANYI BENARD TAR	SECTION CONTROL OF FACILITATION
21	Roger BEYENI	Chef de Cabinet
22	ONGOLO René Yves	SPO 2437
23		
24		
25		

Training Department Supervisor: COMPLIANCE & SAFETY

Name: Ngom Mambingo Signature: Date: 11/09/2018

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5. SUCCESS STORIES

- **LIST OF PARTICIPANTS – DAY 2 OF THE CORSIA INITIAL TRAINING AT CAMAIR-CO)**

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COMPLIANCE AND SAFETY DEPARTMENT

PARTICIPANTS LIST

CORSIA CONCEPT TRAINING

Date: 12 September 2018

Training Provider: CCAA/CORSIA FOCAL POINT FOR CAMEROON

Location: CAMAIR-CO

Trainer/Instructor full Name: NDUNGO OLIVE

Trainer/Instructor Signature:

Position: Chief of Service Air Environment Focal Point CORSIA

Course Title: CORSIA CONCEPT TRAINING

Type of Training: (Please Tick Relevant Type)

- Initial Training ☑
- Recurrent Training ☐
- Conversion Training ☐
- Corrective Training ☐

N°	FULL NAME	POSITION	CONTACT	SIGNATURE
1	Jean-Claude NGANGUE	Compliance & Safety		
2	Ngom Mambinge	GP.B767 Flight Safety		
3	ONGOLO René Yves	GPC B737		
4	Nataya Ivo Ndoh	Auditor / Inspector		
5	LUCIA KANGANG	Auditor / Inspector		
6	KENFACK EMMANUEL	Engineering Manager		
7	Chanelle NGAMBE BANGA	Auditor / Inspector Airport Auditor		
8	PAULINE JOSELIE TENE	AUDITOR / INSPECTOR		
9	NGO YAGI E. Odette	Auditor / Inspector		
10	NOUEBISSI FOSOU LAURE	Head of section Quality Management		
11	MA A BANG	Internal / DCS		
12	MBI STEPHEN EKOW	Head of Quality Control		
13	NDUNGO Olive	CCAA – CORSIA		

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Camair-Co

COMPLIANCE AND SAFETY DEPARTMENT

PARTICIPANTS LIST

CORSIA CONCEPT TRAINING

N°	FULL NAME	POSITION	CONTACT	SIGNATURE
14	TENKAMTE TCHINDE ABEL	F/O QLOO		
15	LIBAI JAMUEL PATRAT	Chef Cabin Instructor		
16	JEAN PAUL KOUEMOU KUNGUE	DUTY MANAGER		
17	ROGER BEYEME	Chef Service Certification		
18	MEGNYA THIERRY R	FLIGHT DISPATCHER		
19				
20				
21				
22				
23				
24				
25				

Training Department Supervisor: COMPLIANCE & SAFETY

Name: Ngom Mambinga Signature: Date: 12/09/2018

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5. SUCCESS STORIES

5.2) POSITIVE FEEDBACK OF THE AO's EMP FROM THE ACT CORSIA TEAM

CORSIA
EMISSIONS MONITORING PLAN (EMP)

CONTENTS

1 Version control of Emissions Monitoring Plan
2 Aeroplane operator identification and description of activities
3 Fleet and operations data
4 Methods and means for calculating emissions
4.1 Fuel Use Monitoring Method: Method A
4.2 Fuel Use Monitoring Method: Method B
4.3 Fuel Use Monitoring Method: Block-off / Block-on
4.4 Fuel Use Monitoring Method: Fuel Uplift
4.5 Fuel Use Monitoring Method: Fuel Allocation with Block Hour
4.6 ICAO CORSIA CO_2 Estimation and Reporting Tool (CERT)
5 Data management, data flow, control system, risk analysis and data gaps

Template Information

Template provided by:	0
Version (publication date):	2018-07-20

Note: For the purpose of this template, international flight is defined as in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 2, 2.1.

6/18/2019 Cameroon Civil Aviation Authority (CCAA) Mail - Emissions Monitoring Plan (EMP) for CamairCo

CCAA

NDUNGO, Olive <olive.ndungo@ccaa.aero>

Emissions Monitoring Plan (EMP) for CamairCo

Bourgeois, Gilles <gilles.bourgeois@tc.gc.ca> 2 May 2019 at 15:36
To: "NDUNGO, Olive" <olive.ndungo@ccaa.aero>
Cc: "Ferrier, Blandine" <BFerrier@icao.int>, "Donovan, Sean" <sdonovan@icao.int>, "Henry, Kerri" <kerri.henry@tc.gc.ca>, "Edoo, Ashan" <Ashan.Edoo@tc.gc.ca>, Pierre Primard <pierre.primard@aviation-civile.gouv.fr>

Hello Olive,

CamairCo provided an excellent Draft Emissions Monitoring Plan. Below are observations for your consideration.

Template Information : In the row Template Provided by : should contain ICAO.

Section 2 d4) and 2g) : 2g) talks to the rarity of non-scheduled operation. It is does happen, even though rare 2d4)should reflect how they are identified

Section 2 e5) : Can you clarify the meaning of "No Obligations"? We think it means that there no operational restriction on the AOC?

Section 2d), 3f) and 5d) : 2d) suggests that flight attribution of CamairCO is through the ICAO Designator identified as CRC. Section 3f) suggests that QC will be used. Section 5d) also refers to CRC. This difference needs to be explained.

Section 3d) and 5a): Although not a requirement, a chart as referenced in the template with the data flows explained in this section would be helpful

Section 5b): This section should reference that if the 5% data gap threshold is exceeded they should contact their Aviation Authority within 3 months.

Gilles (ACT-CORSIA Canada), Ashan (ACT- CORSIA Canada) and Pierre (ACT-CORSIA France)

5. SUCCESS STORIES

5.3) CREATING AWARENESS AT THE LEVEL OF THE CCAA

5. SUCCESS STORIES

5.4) CLOSE FOLLOW UP OF CO2 EMISSIONS REDUCTION AND CORSIA ACTIVITIES BY THE PUBLIC AND CIVIL SOCIETY ORGANIZATIONS

- The public equally appreciates Cameroon joining CORSIA from the pilot phase
- Takes interest in CORSIA and CO2 emissions reduction from international avaition
- The Civil Society through the ACDESPE keeps close follow up of CORSIA and CO2 emissions reduction activities both at National and International level
- Invited the CCAA to give more highlights of its activities/involvement in CORSIA in their international seminar held in Douala in August 2019 in partnership with Carbon Market watch (CMW)

5. SUCCESS STORIES

❑ PARTICIPATION OF THE CCAA AT INTERNATIONAL SEMINAR ORGANIZED BY THE CIVIL SOCIETY IN PARTNERSHIP WITH CMW

ENVIRONMENT

Le role de la CCAA dans le défis posé par le changement climatique en aviation civile au Cameroun

REPUBLIQUE DU CAMEROUN

Les défis posés par le changement climatique et la mise en œuvre des mesures d'atténuation visant à réduire les effets néfastes des activités de l'aviation civile internationale au Cameroun

Présenté par: Mme NDUNGO Olive

Chargé d'Etudes Assistant – Volet Environnement;

Point Focal du CORSIA pour le Cameroun

28-29 August 2019

Seminaire sur le CORSIA et le changement climatique dans le domain du Transport Aérien en Afrique - Douala, Cameroun

For fair and effective climate protection

Carbon Market Watch

Ms. Olive Ndungo - Chief of Service for Environment
Ms. Edwige Mbang - Management staff at the division of air transport
Cameroon Civil Aviation Authority

Brussels, September 13th, 2019

Dear Ms. Ndungo and Ms. Mbang,

I am writing to express my sincere gratitude for your presence during the civil society workshop organized by Carbon Market Watch and ACDESPE in Douala on August 28th, 2019, as well as the stakeholder meeting on aviation organized on August 29th, 2019.

The high quality of the information shared by Ms. Ndungo helped all the civil society organisations present at the meeting to better understand the challenges faced by the CCAA, and the significant measures it has rolled out to tackle the greenhouse gas emissions from the Cameroon civil aviation sector, in particular through its ongoing relationship with the airport authorities.

As you know, the climate challenge facing the civil aviation sector is tremendous, and it was clear from your input that the CCAA is taking this challenge seriously. In the spirit of continuing on this trajectory, we warmly invite you to engage with Cameroonian civil society organisations in your future projects, as well as in the implementation of your existing climate plan.

Through the implementation of CORSIA in Cameroon, a new opportunity arises to collaborate with civil society organisations, for example through the establishment of a working group to connect the CCAA, industry representatives, and civil society organisations, and ensure that new measures are adopted in a way which benefits all stakeholders and people.

We therefore encourage you to continue sharing engagement opportunities with civil society organisations, including through the president of our partner organization, Amyssé Kenfack (social_acdespe@yahoo.fr).

Thank you once more for your participation and insightful contributions.

Best regards,

Sabine Frank - Carbon Market Watch Executive Director

6. PERSPECTIVES

❑ ASSISTANCE NEEDED

- ❑ Need to reinforce capacity building for the AO
- ❑ Need for a verifier as they resume activities (post COVID)
- ❑ Need of software tool for data collection and analysis

Thank you for your kind attention!