





## **EU CORSIA Africa and Caribbean**

CORSIA Key elements, Offsetting and CORSIA eligible emissions units

Capacity building session for stakeholders from Namibia

Working for quieter and cleaner aviation.

Your safety is our mission.

22.07.2024-26.07.2024





## VERIFICATION

### **Verification fundamentals**

- Objective of verification
  - Monitoring of CO<sub>2</sub> emissions by the aeroplane operator takes place according to the approved EMP (in accordance with Annex 16, Volume IV)
  - Reported emissions by the aeroplane operator are correct and reliable (free from material misstatements and material non-conformities
    - ✓ Materially fair, represent accurately emissions over the reporting period and supported by evidence
    - ✓ AO has monitored, calculated and reported emissions in accordance with SARPs and approved EMP
    - ✓ Flight attribution is correctly applied: no overlap/gaps with other operators



## Verification

## **Verification fundamentals**

- Scope of verification
  - > CO<sub>2</sub> emissions from aeroplane fuel monitoring methods
  - Entire reporting period as stated in ER (1 year)
- Level of assurance
  - Reasonable assurance based on appropriate evidence gained though the verification process



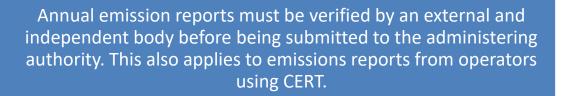






## **Verification of Emissions** Report and OMC

# Key steps in the verification process



The verification body shall verify that the reported emissions are accurate and supported by sufficient evidence

One of the main tasks of the verification body will be to ensure that monitoring of CO2 emissions has been carried out in accordance with the emissions monitoring plan.



## What shall be checked by the VB?

- ✓ Ensure completeness of flight list
- ✓ Ensure that the reported emissions are correct
- ✓ Confirm source of emissions by sampling
- ✓ Ensure that the emissions monitoring plan complies with Annex 16, Volume IV and the Environmental Technical Manual
- ✓ Ensure that the operator has followed the procedures as described in the emissions monitoring plan
- ✓ Check the emissions report
- ✓ Prepare an audit report



## Timeline for verification

## For the AO:

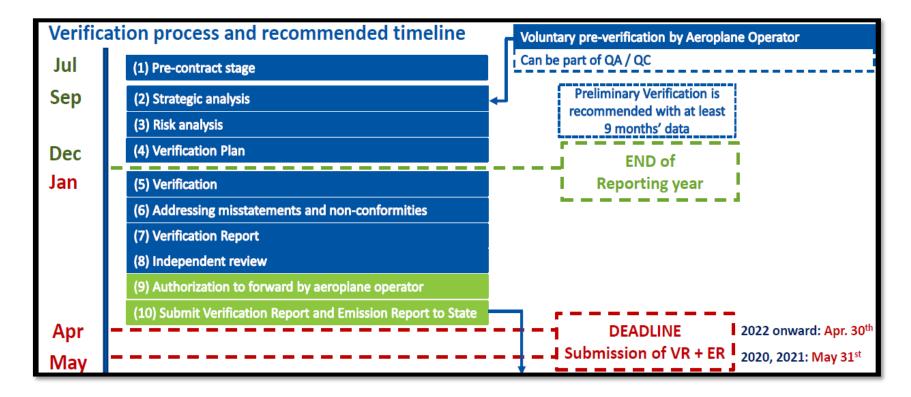
- Monitor CO2 emissions for one year N
- On 1 January of year N+1, compile the CO2 emissions data of international flights for year N
- Produce Year N Emissions Report
- Be checked
- Submit reports by April 30 of the year N+1

## For the SA:

 Verify the Emissions Reports (order of magnitude) and submit the data to ICAO through CORSIA Central Register-CCR- before 31 July of the year N+1

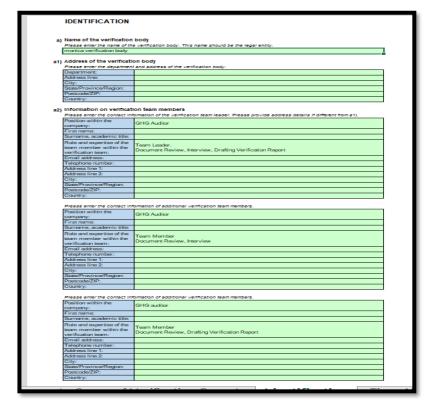


## Verification Process for the VB and AO to SA





# Please specify which type of report is being verified (aeroplane operator's Emissions Report with or without CORSIA eligible fuels and/or an aeroplane operator's Emissions Unit Cancellation Report). Note I: When conducting the verification of an Emissions Unit Cancellation Report exclusively, only the points a), b), c), d), f), g), h), m), p), d), r) and s) shall be applicable. Note II: The verification body has to provide a conclusion on each of the verification objectives, as applicable, in the concluding verification statement. Verification of aeroplane operator's Emissions Report without CORSIA eligible fuels





#### TIME ALLOCATION AND SCOPE OF THE VERIFICATION

#### b) Total time of verification

Please enter the dates on which the verification was carried out and the total time required for the verification in working days, including revisions.

Strategic Analysis and Risk Analysis: 1 April, 2023 (1 Man-Day); Process Analysis: 2,3 April, 2023 (2 Man-Days); Drafting Verification Report: 4 April 2023(1 Man-Day); Independent Technical Review: 5 April 2023 (0.5 Man-Day)

#### c) Scope of the verification

Please indicate the scope of the verification. This must include the time period covered by the verification and the verification boundaries (organization, physical). Include whether one or more site visits were conducted and what elements, if any, were conducted remotely.

The scope of this verification is verifying the Aeroplane Operator's CO2 emissions in year 2022 to a reasonable level of assurance for the annual emissions report under CORSIA and confirm compliance with approved monitoring plan and ICAO requirements on monitoring and reporting.

The verification team has conducted a full assessment of the risks associated with conducting remote verification, including: the applicability of remote verification methods to verification projects; The consistency between remote verification schemes and verification objectives; The applicability of the ICT technology planned to be adopted; The matching of the capabilities of the verification body and team; The comprehensiveness of remote verification program design; The accuracy of remote verification execution. After the risk assessment, the verification team decided an on-site visit is not necessary and a remote verification was carried out instead. Authorisation was requested to the SA who agreed to have a remote verification process,

#### c1) CORSIA eligible fuels

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#### GENERAL INFORMATION

#### d) Impartiality and avoidance of conflict of interest assessment

Please describe the main results of impartiality and avoidance of conflict of interest assessment.

- Monica verification body is not an aeroplane operator, the owner of an aeroplane operator or owned by an
  aeroplane operator.
- 2 Monica verification body does not conduct any trading of emission unit.
- 3. The relationship between Monica verification body and this verified aeroplance operator is not be based on common ownership, common governance, common management or personnel, shared resources, common finances and common contracts or marketing.
- 4. Monica verification body did not take over any delegated activities from the aeroplane operator with regard to the preparation of the Emissions Monitoring Plan and the Emissions Report.

#### e) Verification criteria

Please specify the criteria against which the Emissions Report was verified (e.g. version of EMP; Annex 16, Volume IV; CORSIA Implementation Elements; specific national legislation; Environmental Technical Manual (Doc 9501), Volume IV, etc.).

- 1. Annex 16, Volume IV of Standard and Recommended Practices (First Edition)
- Environmental Technical Manual (Doc 9501), Volume IV Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) (Second Edition)
- 3. Approved Emission Monitoring Plan (Version 1, 2019-01-01)
- 4. ISO 14064-3:2019 Specification with guidance for verification and validation of greenhouse gas statement and 5.national Regulation on CORSIA

#### f) Information and data used of the aeroplane operator

Please specify which data and documents provided by the aeroplane operator were used by the verification body to carry out verification activities (e.g. list of flight activities exported from the Operational Management System as of dd/mm/yy, flight logs and ACARS messages of the following flights, instructions for flight crews for use of density information of fuel as contained in document xyz, etc.).

As specified in the approved emission monitiring plan (version 1, 2019-01-01), the AO uses ICAO CORSIA CO2 Estimation and Reporting Tool (CERT) as Fuel Use Monitoring Method.

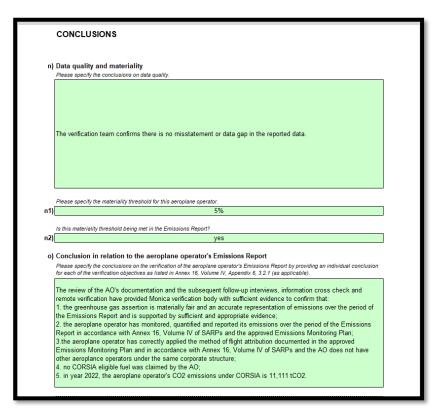
Therefore, the verification team checked the following information:

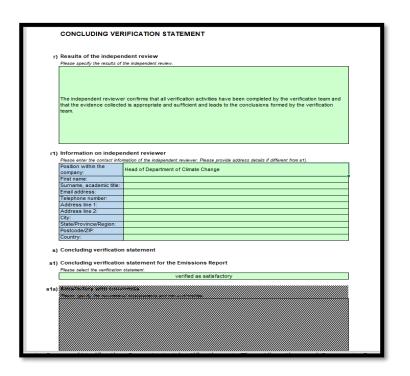
- Air Operator Certificate (Issued on 01.01.2022 )
- 2. the Flight Data Year Report 2022 exported from the internal sysmte called abc
- 3. CERT populated with AO's data
- 4. Approved Emission monitoring plan by the SA
- 5. Invoice and Statement of Account for Air Navigation Charges
- 6. Official communication between the AO and the SA













# **Verification Process by the SA to ICAO**

- → The State will perform an order of magnitude check of the Emissions Report of the aeroplane operator.
- → The order of magnitude check will follow a set of standardized requirements as outlined in Table 3-11 of Doc 9501
- → Depending on the outcome of the State review, there may be a need for further follow up with the aeroplane operator, the verification body, and in some cases, the national accreditation body.



# **Verification Process by the SA to ICAO**

POSSIBLE ISSUES	WHAT TO DO
A question or concern relating to the Emissions Report or EUCR prepared by the aeroplane operator	The State is recommended to follow up directly with the aeroplane operator
A question or concern relates to the Verification Report, or is otherwise specific to the verification of the Emissions Report or EUCR including the procedures and activities carried out by the verification body	The State should contact the relevant verification body.  Further follow up may be required with the aeroplane operator to address it, and it could potentially result in the need for a revised Emissions Report or EUCR
Concerns with the quality of the provided verification influence the reporting quality of future Emissions Reports or EUCRs, and the verification body does not address the concerns raised by the State,	The State is advised to inform the accrediting NAB. Ultimately, it is the accrediting NAB that is responsible to ensure compliance of the verification body with the CORSIA verification requirements



# **OMC** by the SA

#### Table 3-11. State order of magnitude checklist for the Emissions Report

Insert aeroplane, operator's name:
Reporting year:
Amount of verified emissions (in tonnes):
Reviewed by:
Additional details:

No	Question/Issue	Additional information	Status: OK/Yes/No/ Not Applicable	Notes and results of checks
	Aeroplane operator identification			
1	Is the name of the aecoplane operator given and unambiguous? If applicable, is there a valid ICAO Designator for aecoplane operating agencies?	Ensure unambiguous identification of aetoplane operator. Get back to aetoplane operator in case of uncertainties.		
2	Is the basic information (address, AOC, etc.) plausible? Has the aeroplane operator correctly identified its competent and responsible authority? Are there changes in comparison to last Emissions Report?	If there is indication of another State being in charge, get back to relevant State and aeroplane operator.		
3	Are there other defects or comments?			

No	Question/Issue	Additional information	Status: OK/Yes/No/ Not Applicable	Notes and results of checks
	Administrative aspects			
4	Has the Emissions Report been submitted in due time?			
5	Are the submitted documents and relevant accompanying documents complete? Are there any blank boxes? Is the Emissions Report verified? Is the Verification Report included?	If not, contact <u>aeroplane</u> operator and/or verification body.		
6	The aeroplane operator and verification body both separately submit Emissions Report and Verification Report. Is the content of both submissions identical?	Minimum check: reported fuel consumption and number of flights. Get back to aeroplane operator in case of deviations.		
7	Has the correct Emissions Report template version been used?	Ensures capturing and reporting fuel consumption according to latest requirements of the applicable reporting.		
8	Is the date of creation of Emissions Report within the underlying reporting period?	If so, there is the risk of incomplete reporting of flight data. End of year flights might be missing.		
9	Is there a requirement to report?	Check if annual CO <sub>2</sub> emissions from international flights, as defined in Annex 16, Volume IV, Part II, Chapter 1.1.2, and Chapter 2, 2.1, are greater than 10 000 tonces.		
10	Are there any collateral clauses in the approval of the Emissions Monitoring Plan?	If so, implementation has to be tracked and checked.		
11	Are there other defects or comments?			







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