CAO ENVIRONMENT

AT A GLANCE

CORSIA IMPLEMENTATION COMPONENTS

In order to implement CORSIA, a series of components are being developed to provide stakeholders with the necessary information. The Standards and Recommended Practices (SARPs) in Annex 16 Volume IV ① provide the mandatory actions by States or operators (the "what" and "when") to implement CORSIA, while the Environmental Technical Manual (ETM) Volume IV 2 provides the guidance on the process (the "how") to implement CORSIA.

Due to CORSIA specific characteristics, Implementation Elements (3) are also being developed as another component of the CORSIA structure, which do not require mandatory actions by States or operators, but contain essential information for implementation of CORSIA.

SARPs Annex 16 Volume IV 1



Part I. DEFINITIONS, ABBREVIATIONS AND UNITS

Part II. CARBON OFFSETTING AND REDUCTION SCHEME FOR INTERNATIONAL AVIATION (CORSIA) **CHAPTER 1.** Administration

CHAPTER 2. Monitoring, Reporting and Verification CHAPTER 3. CO2 Offsetting Requirements and Emissions Reductions from Sustainable Aviation Fuels CHAPTER 4. Emission Units

APPENDICES

APPENDIX 1. Administrative Processes **APPENDIX 2.** Fuel Use Monitoring Methods **APPENDIX 3.** CO₂ Emissions Estimation and Reporting Methods and Tools **APPENDIX 4.** Emissions Monitoring Plans **APPENDIX 5.** Reporting **APPENDIX 6.** Verification

ATTACHMENTS

Attachment A. Attribution Processes Attachment B. Applicability of MRV Requirements to International Operations Attachment C. Processes for Fuel Use Monitoring

ETM Volume IV 2

Guidance Material



CHAPTER 2. GENERAL GUIDELINES

2.1 Applicability of MRV of Annual CO₂ Emissions from an Aeroplane Operator 2.2 Applicability of CO₂ Offsetting Requirements



- 3.1 Monitoring
- 3.2 Reporting
- 3.3 Verification

APPENDIX 1.

CHAPTER 4. GUIDELINES ON CALCULATION OF OFFSETTING REQUIREMENTS

- 4.1 Calculation of Offsetting Requirements During the 2021-2030 Compliance Period
- 4.2 Calculation of Offsetting Requirements During the 2031-2035 Compliance Period
- 4.3 Baseline Emissions from 2019-2020 for Calculation of Offsetting Requirement
- 4.4 Sector Growth Factor

CHAPTER 5. ADMINISTRATIVE PARTNERSHIPS UNDER CORSIA

5.1 Example of a Bilateral Agreement



STANDARDIZED EMISSIONS MONITORING PLAN AND REPORTING TEMPLATES

ICAO CORSIA Implementation Elements

(Directly referenced in the SARPs)

Five ICAO CORSIA Implementation Elements will be reflected in fourteen ICAO documents directly referenced in the upcoming Volume IV of Annex 16 and will contain material to be approved by the ICAO Council for publication by ICAO to support such Annex. These publications will be made available on the ICAO CORSIA website when they are completed and may only be amended by the ICAO Council.

CORSIA STATES FOR CHAPTER 3 STATE PAIRS

- **Description:** States' participation in CORSIA, to define route-based emissions coverage every year from 2021.
- Expected availability: 30 July 2020.
- Periodicity of updates: updated annually.

2 ICAO CORSIA CO₂ ESTIMATION AND REPORTING TOOL (CERT)

- Description: ICAO tool for simplified monitoring, reporting and verification (MRV) procedures.
- Expected availability: 2018 (estimation functionality only).
- Periodicity of updates:
 - 2019 version (reporting function to be added).
 - 2021 version (reporting by route-coverage).

ORSIA SUSTAINABLE AVIATION FUELS

- Description: Information related to CO2 emissions reduction from sustainable aviation fuels.
- Expected availability: No later than 2021.
- **Periodicity of updates:** as needed (e.g., updates of default life-cycle methodologies / values for new fuels and eligible certification schemes).

CORSIA ELIGIBLE EMISSIONS UNITS

- Description: Emissions units criteria and eligible emissions units programmes.
- Expected availability: No later than 2021.
- Periodicity of updates: Periodic updates of the list of eligible programmes.

5 CORSIA CENTRAL REGISTRY (CCR)

- **Description:** Information to be made available from the CORSIA central registry, to allow implementation of CORSIA.
- Expected availability: 2020.
- Periodicity of updates:
 - From 2020, annual update of total CO2 emissions data.
 - From 2025, triennial update of information on emissions units and compliance.

The information on actions for CORSIA implementation contained in this document is based on the proposal for the First Edition of Annex 16, Volume IV (Standards and Recommended Practices relating to CORSIA) and related materials, as made available to States by means of ICAO State letter AN 1/17.14 – 17/129. The proposed First Edition of Annex 16, Volume IV and related materials are expected to be considered for adoption by the ICAO Council in June 2018 and subject to any changes arising from this process. All reasonable efforts have been made to ensure accuracy, but ICAO makes no warranties in relation to the information contained herein and assumes no responsibility or liability arising in connection with its use or misuse.