



CAR ENV

ENVIRONMENTAL REGULATIONS

FOREWORD

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REVISION RECORD

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FOREWORD

1. The Republic of San Marino Civil Aviation Authority, known in these regulations as the “Authority” has implemented CAR ENV (Civil Aviation Regulations – Environmental) as the technical requirements and administrative procedures applicable to aviation environmental matters.
2. The structure and substance of these regulations is based on Annex 16, Volume IV to the Convention on International Civil Aviation using the ICAO model regulations. Regulations regarding Aircraft Environmental Standards and noise certificates may be found in CAR 21, Subpart I.
3. Unless otherwise stated, applicable Annex 16 definitions and abbreviations are used throughout this document. Refer also to CAR DEF for additional definitions and abbreviations.
4. Appendices form part of, and have the same status as, these Regulations
5. The editing practices used in this document are as follows:
 - (a) ‘Shall’ or ‘Will’ or ‘Must’ is used to indicate a mandatory requirement.
 - (b) ‘Should’ is used to indicate a recommendation.
 - (c) ‘May’ is used to indicate discretion by the Authority, the industry or the applicant, as appropriate.

Note: The use of the male gender implies the female gender and vice versa.

6. Paragraphs and sub-paragraphs with new, amended and corrected text will be enclosed within brackets until a subsequent “amendment” is issued.



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REVISION NO.	EFFECTIVE DATE	ENTERED BY <i>(Hardcopy only)</i>
Initial Issue	01 July 2019	
Rev 01	01 January 2021	



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CHAPTER 1

GENERAL PROVISIONS

1.1 Definitions

Note: The following definitions are specific to CAR ENV. Other definitions are found in CAR DEF.

Administrative partnership. Delegation of administering tasks in these regulations from one State to another State(s).

Aerodrome. A defined area on land or water (including any buildings, installations and equipment) intended to be used either wholly or in part for the arrival, departure and surface movement of aircraft.

Aerodrome pair. A group of two aerodromes composed of a departing aerodrome and an arrival aerodrome.

Aeroplane. A power-driven heavier-than-air aircraft, deriving its lift in flight chiefly from aerodynamic reactions on surfaces which remain fixed under given conditions of flight.

Aeroplane owner. Person(s), organisation(s) or enterprise(s) identified via Item 4 (Name of owner) and Item 5 (Address of owner) on the Certificate of Registration of an aeroplane.

Air operator certificate (AOC). A certificate authorising an operator to carry out specified commercial air transport operations.

Conversion process. A type of technology used to convert a feedstock into aviation fuel.

CORSIA eligible fuel. A CORSIA sustainable aviation fuel or a CORSIA lower carbon aviation fuel, which an operator may use to reduce their offsetting requirements.

CORSIA lower carbon aviation fuel. A fossil-based aviation fuel that meets the CORSIA Sustainability Criteria under this Volume.

CORSIA sustainable aviation fuel. A renewable or waste-derived aviation fuel that meets the CORSIA Sustainability Criteria under this Volume.

Feedstock. A type of unprocessed raw material used for the production of aviation fuel.

Flight plan. Specified information provided to air traffic services units, relative to an intended flight or portion of a flight of an aircraft.

Fuel uplift. Measurement of fuel provided by the fuel supplier, as documented in the fuel delivery notes or invoices for each flight (in litre).

Great Circle Distance. The shortest distance, rounded to the nearest kilometre, between the origin and the destination aerodromes, measured over the earth's surface modelled according to the World Geodetic System 1984 (WGS84).

National accreditation body. A body authorised by a State which attests that a verification body is competent to provide specific verification services.



New entrant. Any aeroplane operator that commences an aviation activity falling within the scope of this Volume on or after its entry into force and whose activity is not in whole or in part a continuation of an aviation activity previously performed by another aeroplane operator.

Notifying State. The State that has submitted to ICAO the request for the registration of or change in the three-letter designator of an aeroplane operator over which it has jurisdiction.

Operator. The person, organisation or enterprise engaged in or offering to engage in an aircraft operation.

Pathway. A specific combination of feedstock and conversion process used for the production of aviation fuel.

Reporting period. A period which commences on 001 January and finishes on 31 December in a given year for which an aeroplane operator or State reports required information. The flight departure time (UTC) determines which reporting period a flight belongs to.

State pair. A group of two States composed of a departing State or its territories and an arrival State or its territories.

Verification body. A legal entity that performs the verification of an Emissions Report and, when required, an Emissions Unit Cancellation Report, as an accredited independent third party.

Verification of report. An independent, systematic and sufficiently documented evaluation process of an emissions report and, when required, a cancellation of eligible emissions units report.

Verification report. A document, drafted by the verification body, containing the verification statement and required supporting information.

Verification team. A group of verifiers, or a single verifier that also qualifies as a team leader, belonging to a verification body conducting the verification of an Emissions Report and, when required, an Emissions Unit Cancellation Report. The team can be supported by technical experts.

1.2 Abbreviations & References

1.2.1 The following abbreviations are specific to CAR ENV.

ACARS	Aircraft Communications Addressing and Reporting System
AOC	Air operator certificate
CERT	CO ₂ Estimation and Reporting Tool
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
GHG	Greenhouse gases
IAF	International Accreditation Forum
IEC	International Electrotechnical Commission



ISO	International Organization for Standardization
MRV	Monitoring, Reporting and Verification
MJ	Megajoule
RTK	Revenue Tonne Kilometres

1.2.2 [References]

Note: The ICAO documents listed below are material approved for publication by ICAO to support these regulations and are essential to the implementation of the CORSIA. These ICAO documents are available on the ICAO CORSIA website:

- (a) CORSIA States for Chapter 3 State Pairs;*
- (b) ICAO CORSIA CO₂ Estimation and Reporting Tool;*
- (c) CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes;*
- (d) CORSIA Approved Sustainability Certification Schemes;*
- (e) CORSIA Sustainability Criteria for CORSIA Eligible Fuels;*
- (f) CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels;*
- (g) CORSIA Methodology for Calculating Actual Life Cycle Emissions Values;*
- (h) CORSIA Eligible Emissions Units;*
- (i) CORSIA Emissions Unit Eligibility Criteria;*
- (j) CORSIA Central Registry (CCR): Information and Data for the Implementation of CORSIA;*
- (k) CORSIA Aeroplane Operator to State Attributions;*
- (l) CORSIA 2020 Emissions;*
- (m) CORSIA Annual Sector's Growth Factor (SGF); and*
- (n) CORSIA Central Registry (CCR): Information and Data for Transparency.]*

1.3 Non-SI units

The non-SI units listed in the following table shall be used either in lieu of, or in addition to, SI units as primary units of measurement under these regulations.



<i>Specific quantity</i>	<i>Unit</i>	<i>Symbol</i>	<i>Definition (in terms of SI units)</i>
mass	tonne	t	1 t = 10 ³ kg
time	hour	h	1 h = 60 min = 3 600 s
volume	litre	L	1 L = 1 dm ³ = 10 ⁻³ m ³

1.4 Applicability

- 1.4.1 These regulations shall be applicable to an aeroplane operator attributed to San Marino according to the approach in 1.5.3.

[Note: In these regulations, when San Marino is the State to which the aeroplane operator is attributed, it is referred to as the Authority.]

1.5 Attribution of International Flights to an Aeroplane Operator

- 1.5.1 The aeroplane operator shall identify international flights that are attributed to it according to the approach in 1.5.2 and 1.5.3.
- 1.5.2 [For the purpose of these regulations, an international flight is defined as the operation of an aircraft from take-off at an aerodrome of San Marino, and landing at an aerodrome of another State or its territories. In addition, a domestic flight is defined as the operation of an aircraft from take-off at an aerodrome within San Marino, and landing at an aerodrome also within San Marino.]
- 1.5.3 A specific international flight shall be attributed to the aeroplane operator as follows:
- (a) ICAO Designator: When Item 7 (aircraft identification) of the flight plan contains the ICAO Designator, that flight shall be attributed to the aeroplane operator that has been assigned this Designator;
 - (b) Registration marks: When Item 7 (aircraft identification) of the flight plan contains the nationality or common mark, and registration mark of an aeroplane that is explicitly listed in an air operator certificate (or equivalent) issued by San Marino, that flight shall be attributed to the aeroplane operator that holds the air operator certificate (or equivalent); and
 - (c) Other: When the aeroplane operator of a flight has not been identified via (a) or (b), that flight shall be attributed to the aeroplane owner who shall then be considered the aeroplane operator.
- 1.5.4 Upon request by the Authority as the State of Registry, aeroplane owners identified in 1.5.3(c) shall provide all information necessary to identify the actual aeroplane operator of a flight.
- 1.5.5 The aeroplane operator may, by contract, delegate the administrative requirements of these regulations to a third party contractor as long as the delegation is not to the same entity as verification body. Liability for compliance shall not be delegated.
- 1.5.6 The Authority should ensure the correct attribution of an international flight departing from an aerodrome in its territory to an aeroplane operator using the approach in 1.5.3 and perform the required order of magnitude checks to ensure the completeness of reported data as described in 4.2.5.



1.6 Attribution of an Aeroplane Operator to San Marino

- 1.6.1 The aeroplane operator with international flights, as defined in 1.5.2 and 2.1, attributed to it shall identify the State to which it is attributed according to the approach in 1.6.4.
- 1.6.2 The State shall ensure the correct attribution of an aeroplane operator to it according to the approach in 1.6.4.
- 1.6.3 The Authority should use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” that is available on the ICAO CORSIA website to meet its requirements under 1.6.2.
- 1.6.4 The aeroplane operator is considered attributed to San Marino under these regulations in the following cases:
- (a) ICAO Designator: Where the aeroplane operator has an International Civil Aviation Organisation (ICAO) Designator, which is notified by San Marino;
 - (b) AOC: Where the aeroplane operator does not possess an ICAO Designator, but has a valid air operator certificate issued by San Marino; or
 - (c) Place of judicial registration: Where the aeroplane operator does not possess an ICAO Designator nor air operator certificate, but is registered as juridical person in San Marino. This also applies where the aeroplane operator is a natural person having residence and registration in San Marino.
- 1.6.5 If the aeroplane operator changes its ICAO Designator, AOC or place of juridical registration, and is subsequently attributed to a new State, but it is not establishing a new entity or a subsidiary, then this State becomes the State to which the aeroplane operator fulfils its requirements under CORSIA at the start of the next compliance period.
- 1.6.6 The aeroplane operator with a wholly owned subsidiary aeroplane operator that is legally registered in San Marino can be treated as a single consolidated aeroplane operator liable for compliance with the requirements of these regulations, subject to the approval of the Authority. Evidence shall be provided in the aeroplane operator’s Emissions Monitoring Plan (refer to Chapter 2) to demonstrate that the subsidiary aeroplane operator is wholly owned.
- 1.6.7 The Authority shall submit to ICAO a list of aeroplane operators which are attributed to it according to the requirements as described in Annex 16, Part IV Appendix 5, Table A5-3 and in accordance with the time line as defined in Annex 16, Part IV, Appendix 1. The Authority may submit updates to this list to ICAO on a more frequent basis.

1.7 Authority Requirements

- 1.7.1 The Authority shall approve the aeroplane operator compliance on the basis of satisfactory evidence that the aeroplane operator meets requirements that are at least equal to those specified in these regulations.
- 1.7.2 The Authority shall not delegate enforcement of these regulations, or their administrative tasks towards ICAO, to another State. The Authority may delegate administration processes of these regulations to another State through an administrative partnership based on bilateral agreement among the respective States.



Note: A template for, and guidance on, administrative partnerships is provided in the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).

- 1.7.3 The Authority, when providing capacity support through an administrative partnership, shall notify ICAO about the contracting administering authorities, affected aeroplane operators, scope and duration of the administrative partnership and a copy of the bilateral agreement.
- 1.7.4 The Authority, when providing capacity support, should assess whether the administering authority that has been delegated authority, which will provide administering tasks for another State, has the required resources to offer such services.
- 1.7.5 The Authority, when receiving capacity support, shall ensure that aeroplane operators attributed to it are advised of the administrative arrangements prior to start of the administrative partnership and any potential changes thereafter.
- 1.7.6 The Authority shall not withdraw from an administrative partnership before completion of the reporting activities at the end of the reporting period, but it may withdraw from an administrative partnership according to the notice period defined in the agreement.
- 1.7.7 The Authority shall submit to ICAO a list of verification bodies accredited in the State according to the requirements as described in Annex 16, Part IV Appendix 5 Table A5-3 (Field 2), as described in Appendix 5, Table A5-3 and in accordance with the time line as defined in Appendix 1. The Authority may submit updates to this list to ICAO on a more frequent basis.

1.8 Record Keeping

- 1.8.1 The aeroplane operator shall keep records relevant to demonstrating compliance with the requirements of these regulations for a period of 10 years.
- 1.8.2 The aeroplane operator should keep records relevant to its CO₂ emissions per State pair during the 2019-2020 period in order to cross-check its offsetting requirements calculated by the State during the 2030-2035 compliance periods.
- 1.8.3 The Authority shall keep records relevant to the aeroplane operator's CO₂ emissions per State pair during the period of 2019-2020 in order to calculate the aeroplane operator's offsetting requirements during the 2030-2035 compliance periods.

1.9 Compliance periods and timeline

- 1.9.1 [Unless varied by the Authority, both the Authority and aeroplane operators shall comply with the requirements in Chapters 2, 3, and 4 of these regulations, as well as Annex 16, Part IV, Chapter 4 - Emission Units, in accordance with the timeline as defined in Annex 16, Part IV Appendix 1.

1.10 Equivalent procedures

- 1.10.1 The use of equivalent procedures in lieu of the procedures specified in these regulations shall be approved by the Authority. Equivalent procedures shall demonstrably meet the requirements in these regulations.



Note: Guidance material, including the use of equivalent procedures, is provided in the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).]



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CHAPTER 2

MONITORING OF CO₂ EMISSIONS

2.1 Applicability

- 2.1.1 This Chapter shall be applicable to an aeroplane operator attributed to San Marino that produces annual CO₂ emissions greater than 10 000 tonnes from the use of an aeroplane(s) with a maximum certificated take-off mass greater than 5 700 kg conducting international flights with the exception of humanitarian, medical and firefighting flights.
- 2.1.2 This Chapter shall not be applicable to international flights, as defined in 1.5.2, preceding or following a humanitarian, medical or firefighting flight provided such flights were conducted with the same aeroplane, and were required to accomplish the related humanitarian, medical or firefighting activities or to reposition thereafter the aeroplane for its next activity. The aeroplane operator shall provide supporting evidence of such activities to the verification body or, upon request, to the Authority.
- 2.1.3 This Chapter shall be applicable to a new entrant aeroplane operator attributed to San Marino from the year after it meets the requirements in 2.1.1 and 2.1.2.
- 2.1.4 If the aeroplane operator is close to the threshold of annual CO₂ emissions, as defined in 2.1.1 and 2.1.2, from international flights, as defined in 1.5.2, it should consider engaging with the Authority for guidance. Likewise, the Authority should carry out oversight of the aeroplane operators attributed to it, and engage with any that it considers may be close to or above the threshold. The aeroplane operator with annual CO₂ emissions below the threshold may choose to voluntarily engage with the Authority if it is attributed.

2.2 Emissions Monitoring Plan

- 2.2.1 The aeroplane operator shall submit an Emissions Monitoring Plan to the Authority for approval in accordance with the timeline as defined in Annex 16, Part IV Appendix 1. The Emissions Monitoring Plan shall contain the information as defined in Appendix 4.
- 2.2.2 A new entrant aeroplane operator shall submit an Emissions Monitoring Plan to the Authority within three months of falling within the scope of applicability as defined in 2.1.
- 2.2.3 The aeroplane operator shall resubmit the Emissions Monitoring Plan to the Authority if a material change is made to the information contained within the Emissions Monitoring Plan (i.e., a change to the information presented in the plan that would affect the status or eligibility of the aeroplane operator for an option under the emissions monitoring requirements, or that would otherwise affect the decision by the Authority with regard to whether the aeroplane operator's approach to monitoring conforms with the requirements).
- 2.2.4 The aeroplane operator shall also inform the Authority of changes that would affect the State's oversight (e.g., change in corporate name or address), even if the changes do not fall within the definition of a material change.
- 2.2.5 [If the aeroplane operator's Emissions Monitoring Plan is determined to be incomplete and/or inconsistent with the Emissions Monitoring Plan requirements in Appendix 4, the Authority shall engage with the aeroplane operator to resolve outstanding issues. This may involve returning the Emissions Monitoring Plan to the aeroplane operator along with an explanation as to why the plan was found deficient, or a request for further information.]



2.3 Monitoring of CO₂ Emissions

- 2.3.1 The aeroplane operator shall monitor and record its fuel use from international flights in accordance with an eligible monitoring method.
- 2.3.2 An aeroplane operator's fuel use monitoring method shall be submitted for approval by the Authority.
- 2.3.3 Following approval of the Emissions Monitoring Plan, the aeroplane operator shall use the same eligible monitoring method for the entire compliance period.

2.4 2019-2020 period

- 2.4.1 [The aeroplane operator with annual CO₂ emissions from international flights, as defined in 1.5.2 and 2.1, greater than or equal to 500 000 tonnes shall use a Fuel Use Monitoring Method as described in Appendix 2.
- 2.4.2 The aeroplane operator with annual CO₂ emissions from international flights, as defined in 1.5.2 and 2.1, of less than 500 000 tonnes shall use either a Fuel Use Monitoring Method or the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT).]
- 2.4.3 If the aeroplane operator's annual CO₂ emissions from international flights increases above the threshold of 500 000 tonnes in 2019, the Authority shall permit, at its discretion, the aeroplane operator to continue to use the chosen monitoring method during 2020.
- 2.4.4 [The aeroplane operator should use the same monitoring method during the 2019-2020 period that it expects to use during the 2021-2023 period, taking into account its expected annual CO₂ emissions during the 2021-2023 period. If the aeroplane operator needs to change monitoring method, it will submit a revised Emissions Monitoring Plan in order to implement the new monitoring method from 001 January 2021.]
- 2.4.5 If the aeroplane operator does not have an approved Emissions Monitoring Plan, it shall monitor and record its CO₂ emissions in accordance with the eligible monitoring method outlined in the Emissions Monitoring Plan that it will submit, or has submitted, to the Authority.
- 2.4.6 [If the aeroplane operator's Emissions Monitoring Plan is determined to be incomplete and/or inconsistent with the eligible Fuel Use Monitoring Method, then the Authority shall, at its discretion, approve a different eligible Fuel Use Monitoring Method within the Emissions Monitoring Plan.]
- 2.4.7 If the aeroplane operator does not have sufficient information to use a Fuel Use Monitoring Method, the Authority shall, at its discretion, approve the use of the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) for a period lasting no later than 31 December 2019.

2.5 2021-2035 Period

- 2.5.1 The aeroplane operator with annual CO₂ emissions from international flights subject to offsetting requirements of greater than or equal to 50 000 tonnes, shall use a Fuel Use Monitoring Method as described in Appendix 2 for these flights. For international flights not subject to offsetting requirements the aeroplane operator shall use either a Fuel Use Monitoring Method, or the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT).



- 2.5.2 The aeroplane operator, with annual CO₂ emissions from international flights subject to offsetting requirements of less than 50 000 tonnes, shall use either a Fuel Use Monitoring Method or the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT).
- 2.5.3 If the aeroplane operator's annual CO₂ emissions from international flights subject to offsetting requirements increases above the threshold of 50 000 tonnes in a given year (y), and also in year (y+1), the aeroplane operator shall submit an updated Emissions Monitoring Plan by 30 September of year (y + 2). The aeroplane operator shall change to a Fuel Use Monitoring Method, as described in Appendix 2, on 001 January of year (y+3).
- 2.5.4 If the aeroplane operator's annual CO₂ emissions from international flights subject to offsetting requirements decreases below the threshold of 50 000 tonnes in a given year (y), and also in year (y+1), the aeroplane operator may change monitoring method on 001 January of year (y+3). If the aeroplane operator chooses to change its monitoring method, it shall submit an updated Emissions Monitoring Plan by 30 September of year (y + 2).

2.6 Calculation of CO₂ Emissions from Aeroplane Fuel Use

- 2.6.1 The aeroplane operator shall apply a fuel density value to calculate fuel mass where the amount of fuel uplift is determined in units of volume.
- 2.6.2 The aeroplane operator shall record the fuel density that is used for operational and safety reasons. (e.g., in an operational, flight or technical log). Fuel density may be an actual or a standard value of 0.8 kg per litre. The aeroplane operator shall detail the procedure for informing the use of actual or standard density in the Emissions Monitoring Plan along with a reference to the relevant aeroplane operator documentation.
- 2.6.3 The aeroplane operator using a Fuel Use Monitoring Method shall determine the CO₂ emissions from international flights using the following equation:

$$CO_2 = \sum_f M_f \cdot FCF_f$$

where:

CO₂ = CO₂ emissions (in tonnes);

M_f = Mass of fuel f used (in tonnes); and

FCF_f = Fuel conversion factor of given fuel f, equal to 3.16 (in kg CO₂/kg fuel) for Jet-A fuel / Jet-A1 fuel and 3.10 (in kg CO₂/kg fuel) for AvGas or Jet-B fuel

Note: For the purpose of calculating CO₂ emissions the mass of fuel used includes all aviation fuels.

2.7 Monitoring of CORSIA Eligible Fuel Claims

- 2.7.1 The aeroplane operator that intends to claim for emissions reductions from the use of CORSIA eligible fuels shall use a CORSIA eligible fuel that meets the CORSIA Sustainability Criteria as defined within the ICAO document entitled "CORSIA Sustainability Criteria for CORSIA Eligible Fuels" that is available on the ICAO CORSIA website.



- 2.7.2 The aeroplane operator that intends to claim for emissions reductions from the use of CORSIA eligible fuels shall only use CORSIA eligible fuels from fuel producers that are certified by an approved Sustainability Certification Scheme included in the ICAO document entitled “CORSIA Approved Sustainability Certification Schemes”, that is available on the ICAO CORSIA website. Such certification schemes meet the requirements included in the ICAO document entitled “CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes”, that is available on the ICAO CORSIA website.
- 2.7.3 If the aeroplane operator cannot demonstrate the compliance of the CORSIA eligible fuel with the CORSIA Sustainability Criteria, then the fuel shall not be accounted for as CORSIA eligible fuel.



CHAPTER 3

REPORTING OF CO₂ EMISSIONS AND EMISSIONS REPORT

3.1 Applicability

- 3.1.1 This Chapter shall be applicable to an aeroplane operator attributed to San Marino that produces annual CO₂ emissions greater than 10 000 tonnes from the use of an aeroplane(s) with a maximum certificated take-off mass greater than 5 700 kg conducting international flights, with the exception of humanitarian, medical and firefighting flights.
- 3.1.2 This Chapter shall not be applicable to international flights preceding or following a humanitarian, medical or firefighting flight provided such flights were conducted with the same aeroplane, and were required to accomplish the related humanitarian, medical or firefighting activities or to reposition thereafter the aeroplane for its next activity. The aeroplane operator shall provide supporting evidence of such activities to the verification body or, upon request, to the Authority.
- 3.1.3 This Chapter shall be applicable to a new entrant aeroplane operator attributed to San Marino from the year after it meets the requirements in 3.1.1 and 3.1.2.
- 3.1.4 [The Authority shall decide on the level of aggregation (i.e., State pair or aerodrome pair) for which an aeroplane operator attributed to it shall report the number of international flights, (i.e., Table A5-1 Field 7) and CO₂ emissions (i.e., Table A5-1 Field 8). The Authority shall inform an aeroplane operator attributed to it whether Field 7 and 8 in the Emissions Report shall be reported at the level of State pair or aerodrome pair during the approval process for the Emissions Monitoring Plan.]

3.2 Reporting of CO₂ Emissions that Occurred During Reporting Periods of 2019 and 2020

- 3.2.1 The aeroplane operator shall submit to the Authority a copy of the verified Emissions Report and a copy of the associated Verification Report by 31 May in the calendar year which follows the reporting period.
- 3.2.2 When the aeroplane operator reports its consolidated CO₂ emissions from international flights during the 2019-2020 period, including subsidiary aeroplane operators, disaggregated data relating to each subsidiary aeroplane operator shall be appended to the main Emissions Report.

3.3 Reporting of CO₂ Emissions that Occurred During Reporting Periods of 2021 and 2035

- 3.3.1 The aeroplane operator shall submit to the Authority a copy of the verified Emissions Report and a copy of the associated Verification Report by 30 April in the calendar year which follows the reporting period.

3.4 Aeroplane Operator's Emissions Report

- 3.4.1 The Emissions Report shall include information contained in Appendix 3.
- 3.4.2 The aeroplane operator shall submit the Emissions Report to the Authority in the form prescribed by the Authority.
- 3.4.3 An aeroplane operator's Emissions Report shall be submitted for approval by the Authority.



- 3.4.4 Based on Emissions Reports, the Authority shall calculate average total CO₂ emissions of each aeroplane operator from 2019- 2020. The Authority shall inform the aeroplane operator of this calculation by 30 September 2021.
- 3.4.5 [An operator that uses the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) is not required to report Field 5.
- 3.4.6 The aeroplane operator should use the standardised Emissions Report template provided in Appendix 1 of the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA), or a template approved by the Authority, for submission of information to the Authority.]

3.5 Publishing Emissions Report Information

- 3.5.1 In specific circumstances where the aeroplane operator operates a very limited number of State pairs that are subject to offsetting requirements, and/or a very limited number of State pairs that are not subject to offsetting requirements, it may request in writing to the Authority that such data not be published at the aeroplane operator level explaining the reasons why disclosure would harm its commercial interests. Based on this request, the Authority shall determine whether this data is confidential.
- 3.5.2 In specific circumstances where aggregated State pair data may be attributed to an identified aeroplane operator as a result of a very limited number of aeroplane operators conducting flights on a State pair, that aeroplane operator may request in writing to the Authority that such data not be published at State pair level, explaining the reasons why disclosure would harm their commercial interests. Based on this request, the Authority shall determine whether this data is confidential.

3.6 Reporting of CORSIA Eligible Fuels

- 3.6.1 The use of CORSIA eligible fuel reported to the Authority shall not include any fuels traded or sold to a third party.
- 3.6.2 The aeroplane operator which participates in other greenhouse gas reductions schemes shall notify the Authority of such participation. This notification will include a declaration that CORSIA eligible fuels reported under this Regulation have not also been claimed under another greenhouse gas reduction scheme.
- 3.6.3 The aeroplane operator may claim reduced emissions from using CORSIA eligible fuel in its Emissions Report. In order to make such claim, the aeroplane operator must provide supplementary information as described in Appendix 4. This information must originate at the blend point, and include fuel information from both the neat (unblended) fuel producer and the fuel blender.
- 3.6.4 [The aeroplane operator should make CORSIA eligible fuel claims on an annual basis in order to ensure all documentation is dealt with in a timely manner. However, the aeroplane operator has the option to decide when to make a CORSIA eligible fuel claim within a given compliance period for all CORSIA eligible fuel received by a blender within that compliance period. For blending that occurs in the second half of the final year of a compliance period, the aeroplane operator and the Authority should determine what, if any, flexibility is needed in terms of submitting reports.]



- 3.6.5 If the aeroplane operator purchases fuel from a supplier downstream from the fuel blender (e.g., from a distributor, another aeroplane operator, or an aerodrome-based fuel distributor), this fuel supplier shall provide all of the requisite documentation in order for the emissions reductions from the use of CORSIA eligible fuels to be claimed by the aeroplane operator.

3.7 The Authority Reporting to ICAO

- 3.7.1 Regarding the CO₂ emissions for year 2019, the Authority shall, by 31 August 2020, report information as defined in Appendix 5, and Appendix 7, if applicable, to the International Civil Aviation Organisation.
- 3.7.2 Regarding the CO₂ emissions for year 2020, the Authority shall, by 31 August 2021, report information as defined in Appendix 5, and Appendix 7, if applicable, to the International Civil Aviation Organisation.
- 3.7.3 Regarding the CO₂ emissions for 2021- 2035 period, the Authority shall, by 31 July 2022, and by 31 July annually thereafter, report information as defined in Appendix 6, and Appendix 7, if applicable, to the International Civil Aviation Organisation.
- 3.7.4 In cases where 3.5.1 and 3.5.2 applies, the Authority shall determine whether this data is confidential, and also inform the International Civil Aviation Organisation of any data deemed confidential in accordance with 3.5.1 and 3.5.2 within the report to be submitted by 31 August 2020.
- 3.7.5 All aeroplane operator data which is deemed confidential in accordance with 3.5.1 and 3.5.2 shall be aggregated without attribution to the specific aeroplane operator, and included within the ICAO document entitled “CORSIA Central Registry (CCR): Information and Data for Transparency” that is available on the ICAO CORSIA website.



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CHAPTER 4

VERIFICATION REQUIREMENTS

4.1 Applicability

- 4.1.1 This Chapter shall be applicable to an aeroplane operator attributed to San Marino that produces annual CO₂ emissions greater than 10 000 tonnes from the use of an aeroplane(s) with a maximum certificated take-off mass greater than 5 700 kg conducting international flights, with the exception of humanitarian, medical and firefighting flights.
- 4.1.2 This Chapter shall not be applicable to international flights preceding or following a humanitarian, medical or firefighting flight provided such flights were conducted with the same aeroplane, and were required to accomplish the related humanitarian, medical or firefighting activities or to reposition thereafter the aeroplane for its next activity. The aeroplane operator shall provide supporting evidence of such activities to the verification body or, upon request, to the Authority.
- 4.1.3 This Chapter shall be applicable to a new entrant aeroplane operator attributed to San Marino from the year after it meets the requirements in 4.1.1 and 4.1.2.

4.2 Verification of an Emissions Report and Submission of Relevant Reports

- 4.2.1 The aeroplane operator shall engage a verification body for the verification of its Emissions Report.
- 4.2.2 [The aeroplane operator should perform an internal pre-verification of its Emissions Report prior to the verification by a verification body.]
- 4.2.3 A verification body shall conduct the verification according to ISO 14064-3:2006, and the relevant requirements in Appendix 8.
- 4.2.4 Following the verification of the Emissions Report by the verification body, the aeroplane operator and the verification body shall both independently submit, upon authorisation by the aeroplane operator, a copy of the Emissions Report and associated Verification Report to the Authority, in accordance with the timeline in 3.2.1 and 3.3.1.
- 4.2.5 [The Authority shall perform an order of magnitude check of the Emissions Report in accordance with the timetable in Annex 16, Part IV, Appendix 1.]
- 4.2.6 To facilitate order of magnitude checks and ensure the completeness of reported data, and where necessary to support the implementation of the requirements in this regulation, the Authority shall share, upon agreement with another State's Administrating Authority, specific data and information contained in the aeroplane operator's Emissions Report for aeroplane operators performing flights to and from the requesting State.
- 4.2.7 The Authority shall inform concerned aeroplane operators on the requests for data sharing. In the absence of an agreement between the two States, this information shall not be disclosed to third parties.
- 4.2.8 [The Authority should share, upon a justified request from another State, data on aeroplane operators which are attributed to it, where the request relates to the correct attribution of flights to aeroplane operators. This includes leased aeroplanes where there is a risk of incorrect attribution of flights due to the complexity of leasing and Parent/Subsidiary arrangements between aeroplane



operators.

- 4.2.9 The Authority should support other States and provide flight information (e.g., from ATM systems), especially in cases where the flight is between two States which does not include the State to which the aeroplane operator is attributed. Such data includes origin and destination aerodromes, flight date and time, aircraft type.

Note: As an example of leasing complexities, Operator A may lease its aeroplane to Operator B, with both operators using the same aeroplane during the year but Operator B not operating to the State making the request for information. The State regulating Operator A may want to confirm that the leased aeroplane is identified in the Emissions Report from Operator B to be confident that Operator A has not under reported.]

- 4.2.10 The Authority shall provide the name of the verification body used to verify each Emissions Report upon a request for information disclosure.

- 4.2.11 The Authority should inform concerned aeroplane operators of any request for information disclosure.

4.3 Requirements for a Verification Body and National Accreditation Body

- 4.3.1 A verification body shall be accredited to ISO 14065:2013 and to the relevant requirements in Appendix 9 by a national accreditation body, in order to be eligible to verify the Emissions Report of the aeroplane operator.

- 4.3.2 A national accreditation body shall be working in accordance with ISO/IEC 17011.

- 4.3.3 The Authority shall submit to ICAO a list of verification bodies accredited in San Marino by 01 July 2019, and annually by 30 November thereafter. The Authority may submit updates to this list to ICAO on a more frequent basis.

4.4 Verification of CORSIA Eligible Fuels

- 4.4.1 Fuel purchases, transaction reports, fuel blending records and sustainability credentials shall constitute the documentary proof for the purpose of verification and approval of emissions reductions from the use of CORSIA eligible fuels.

- 4.4.2 The aeroplane operator shall ensure that it, or its designated representative, has audit rights of the production records for the CORSIA eligible fuels that it purchases.

- 4.4.3 [When an audit provision is triggered, and an audit of the fuel producer is undertaken, the aeroplane operator should share the results of the audit with the fuel producer so that the producer may then make it available to other aeroplane operators seeking assurance on the fuel producer's internal processes for the purpose of these regulations.

Note: The quality control assurances of CORSIA eligible fuel producers include declarations and/or process certifications, with periodic audits by verifiers, purchasers, or trusted entities. The process certifications, including the sustainability credentials, provide assurance that the CORSIA eligible fuel producer has established business processes to prevent double counting, and the periodic audits verify that the producer is following their established procedures. Purchasers and States may elect to independently audit the production records of the CORSIA eligible fuel producer in order to provide further assurance.



- 4.4.4 In order to ensure this capability exists, CORSIA eligible fuel procurement controls should seek to enable audit rights for fuel purchasers, aeroplane operators, or their designated representatives.]

4.5 Data Gaps and Error Correction

[Note: Data gaps occur when an aeroplane operator is missing data relevant for the determination of its fuel use for one or more international flights in accordance with 2.2.1.1. Gaps in emissions-related data can occur due to various reasons, including irregular operations, data feed issues or critical system failures. Procedures to prevent data gaps are to be detailed in the Emissions Monitoring Plan of the aeroplane operator in accordance with Appendix 4, 2.4.1. When data gaps are identified by the verification body, it may be unable to obtain sufficient evidence to determine compliance with the requirements, which for severe data gaps, could result in the verification body concluding that the Emissions Report is unsatisfactory. A data gap could also be identified by the State in its review of the verified Emissions Report.]

4.6 Aeroplane Operator

- 4.6.1 The aeroplane operator using a Fuel Use Monitoring Method shall fill a data gap by using the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT), provided that the data gaps during a compliance period do not exceed the following thresholds:
- (a) for 2019-2020 period: 5 per cent of international flights;
 - (b) for 2021-2035 period: 5 per cent of international flights subject to offsetting requirements.
- 4.6.2 The aeroplane operator shall correct issues identified with the aeroplane operator's data and information management system in a timely manner to mitigate ongoing data gaps and system weaknesses.
- 4.6.3 If the aeroplane operator realises it has data gaps that exceed the threshold in 4.6.2, then the aeroplane operator shall engage with the Authority to take remedial action to address this.
- 4.6.4 When the threshold is exceeded, the aeroplane operator shall state the percentage of international flights for the 2019-2020 period, or flights subject to offsetting requirements for the 2021-2035 period, that had data gaps, and provide an explanation to the Authority in their annual Emissions Report.
- 4.6.5 The aeroplane operator shall fill all data gaps and correct systematic errors and misstatements prior to the submission of the Emissions Report.
- 4.6.6 If the aeroplane operator does not provide its Emissions Report in accordance with the timeline, the Authority shall engage with the aeroplane operator to obtain the necessary information. If this proves unsuccessful, then the Authority shall estimate the aeroplane operator's annual emissions using the best available information and tools, such as the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT).
- 4.6.7 If an error in the aeroplane operator's reported emissions is identified by the Authority, the verification body, or the aeroplane operator after the reported CO₂ emissions have been submitted to ICAO, the Authority shall update the reported CO₂ emissions to address the error. The Authority shall assess any implications with respect to the aeroplane operator's offsetting requirements in previous years and, if necessary, make an adjustment to compensate for the error during the compliance period in which the error has been identified.



- 4.6.8 The Authority shall report an error in the aeroplane operator's CO₂ emissions and the follow-up result of the related adjustment to ICAO.



[CHAPTER 5

CO₂ OFFSETTING REQUIREMENTS AND EMISSIONS REDUCTIONS

5.1 Applicability of CO₂ offsetting requirements

- 5.1.1 From 01 January 2021 to 31 December 2035, the offsetting requirements of this Chapter shall be applicable to an aeroplane operator with international flights, as defined in 1.5.2 and 2.1, between States as defined in the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” that is available on the ICAO CORSIA website.
- 5.1.2 The requirements of this Chapter shall not be applicable to a new entrant aeroplane operator for three years starting in the year when it meets the requirements in 2.1.1 and 2.1.3, or until its annual CO₂ emissions exceed 0.1 per cent of total CO₂ emissions from international flights in 2020, whichever occurs earlier. The requirements of this Chapter shall then be applicable in the subsequent year. The Authority shall use the information on the total CO₂ emissions in 2020 from the ICAO document entitled “CORSIA 2020 Emissions” that is available on the ICAO CORSIA website. This information will be produced in accordance with the timeline described in Annex 16, Part IV, Appendix 1.
- 5.1.3 The Authority shall notify ICAO of their decision to voluntarily participate, or to discontinue the voluntary participation in CORSIA, for the purpose of the inclusion of the State in the ICAO document entitled “CORSIA States for Chapter 3 State Pairs”, according to the timeline described in Annex 16, Part IV, Appendix 1.

Note: The ICAO document entitled “CORSIA States for Chapter 3 State Pairs” that is available on the ICAO CORSIA website includes:

- a) *States that have volunteered to participate during the compliance periods from 01 January 2021 to 31 December 2026;*
 - b) *States, with the exception of Least Developed Countries (LDCs), Small Island Developing States (SIDS) and Landlocked Developing Countries (LLDCs), which meet the following criteria during the compliance periods from 01 January 2027 to 31 December 2035:*
 - (i) *an individual share of international aviation activities in RTKs in the year 2018 above 0.5 per cent of total RTKs; or*
 - (ii) *whose cumulative share in the list of States from the highest to the lowest amount of RTKs reaches 90 per cent of total RTKs in the year 2018.*
 - c) *States which are not within the applicability scope of (b), but which have volunteered to participate.*
- 5.1.4 The Authority shall calculate the annual aeroplane operator’s final CO₂ offsetting requirements based on the data reported in accordance with these regulations.

5.2 CO₂ offsetting requirements

- 5.2.1 The Authority shall calculate, for each of the aeroplane operators attributed to it, the amount of CO₂ emissions required to be offset in a given year from 01 January 2021 to 31 December 2023 prior to consideration of the CORSIA eligible fuels, as follows:



$$OR_y = OE * SGF_y$$

where:

- OR_y = Aeroplane operator's offsetting requirements in the given year y ;
 OE = Aeroplane operator's CO₂ emissions covered by 3.1 in the given year y or aeroplane operator's CO₂ emissions covered by 3.1 in 2020, depending upon the option selected by the State which will be applied to all aeroplane operators that have been attributed to it; and
 SGF_y = Sector's Growth Factor.

5.2.2 The Authority shall calculate, for each of the aeroplane operators attributed to it, the amount of CO₂ emissions required to be offset in a given year from 01 January 2024 to 31 December 2035 prior to consideration of the CORSIA eligible fuels, every year as follows:

$$OR_y = \%S_y * (OE_y * SGF_y) + \%O_y * (OE_y * OGF_y)$$

where:

- OR_y = Aeroplane operator's offsetting requirements in the given year y ;
 OE_y = Aeroplane operator's CO₂ emissions covered by 3.1 in the given year y ;
 $\%S_y$ = Per cent Sectoral in the given year y ;
 $\%O_y$ = Per cent Individual in the given year y where $\%O_y = (100\% - \%S_y)$;
 SGF_y = Sector's Growth Factor; and
 OGF_y = Aeroplane operator's Growth Factor.

Overview of CO₂ offsetting requirements on a sectoral and individual basis

<i>Year of applicability</i>	$\%S_y$	$\%O_y$
01 January 2024 to 31 December 2029	100%	0%
01 January 2030 to 31 December 2032	(100% - $\%O_y$)	A specified percentage of at least 20%
01 January 2033 to 31 December 2035	(100% - $\%O_y$)	A specified percentage of at least 70%

5.2.3 The Authority shall use the Sector Growth Factor applicable for a given year (SGF_y) in the ICAO document entitled "CORSIA Annual Sector's Growth Factor (SGF)" that is available from the ICAO CORSIA website. This information will be produced in accordance with the timeline as defined in Annex 16, Part IV, Appendix 1.

5.2.4 The Authority shall calculate, when applicable, the aeroplane operator's Growth Factor for a given year (OGF_y) in accordance with the CO₂ emissions from the verified Emissions Reports submitted by aeroplane operators attributed to it, as follows:

$$OGF_y = \frac{(OE_y - OE_{B,y})}{OE_y}$$

where:

- OE_y = Total aeroplane operator's CO₂ emissions covered by 3.1 in the given year y ; and
 $OE_{B,y}$ = Average total annual aeroplane operator's CO₂ emissions during 2019 and 2020 covered by 3.1 in the given year y .



- 5.2.5 The Authority shall, upon calculating the offsetting requirements in a given year (OR_y) of each of the aeroplane operators attributed to it, inform the aeroplane operator of its offsetting requirements according to the timeline as defined in Annex 16, Part IV, Appendix 1.

5.3 Emissions reductions from the use of CORSIA eligible fuels

- 5.3.1 The aeroplane operator that intends to claim for emissions reductions from the use of CORSIA eligible fuels in a given year shall compute emissions reductions as follows:

$$ER_y = FCF * \left[\sum_f MS_{f,y} * \left(1 - \frac{LS_f}{LC} \right) \right]$$

where:

- ER_y = Emissions reductions from the use of CORSIA eligible fuels in the given year y (in tonnes);
- FCF = Fuel conversion factor, equal to 3.16 kg CO₂/kg fuel for Jet-A fuel / Jet-A1 fuel and 3.10 kg CO₂/kg fuel for AvGas or Jet-B fuel;
- MS_{f,y} = Total mass of a neat CORSIA eligible fuel claimed in the given year y (in tonnes), as described and reported in Field 12.b in Table A5-1 from Annex 16, Part IV, Appendix 5;
- LS_f = Life cycle emissions value for a CORSIA eligible fuel (in gCO₂e/MJ); and
- LC = Baseline life cycle emissions values for aviation fuel, equal to 89 gCO₂e/MJ for jet fuel and equal to 95gCO₂e/MJ for AvGas.

Note 1: The ratio $\left(1 - \frac{LS_f}{LC} \right)$ is also referred to as the emissions reduction factor (ERF_f) of a CORSIA eligible fuel.

Note 2: For each of the CORSIA eligible fuels claimed, the total mass of the neat CORSIA eligible fuel claimed in the given year y needs to be multiplied by its emissions reduction factor (ERF_f). Then the quantities are summed for all CORSIA eligible fuels.

- 5.3.2 If a Default Life Cycle Emissions value is used, then the aeroplane operator shall use the ICAO document entitled “CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels” that is available on the ICAO CORSIA website for the calculation in 3.3.1.
- 5.3.3 If an Actual Life Cycle Emissions value is used, then an approved Sustainability Certification Scheme shall ensure that the methodology, as defined in the ICAO document entitled “CORSIA Methodology for Calculating Actual Life Cycle Emissions Values” that is available on the ICAO CORSIA website, has been applied correctly.

5.4 Total final CO₂ offsetting requirements for a given compliance period with emissions reductions from the use of CORSIA eligible fuels

- 5.4.1 The amount of CO₂ emissions required to be offset by the aeroplane operator, after taking into account emissions reductions from the use of CORSIA eligible fuels in a given compliance period from 01 January 2021 to 31 December 2035, shall be calculated by the Authority as follows:

$$FOR_c = (OR_{1,c} + OR_{2,c} + OR_{3,c}) - (ER_{1,c} + ER_{2,c} + ER_{3,c})$$

where:



FOR_c = Aeroplane operator's total final offsetting requirements in the given compliance period *c*;
OR_{y,c} = Aeroplane operator's offsetting requirements in the given year *y* (where *y* = 1, 2 or 3) of the compliance period *c*; and
ER_{y,c} = Emissions reductions from the use of CORSIA eligible fuels in the given year *y* (where *y* = 1, 2 or 3) of the compliance period *c*.

- 5.4.2 If the aeroplane operator's total final offsetting requirements during a compliance period (i.e., FOR_c) is negative, then the aeroplane operator has no offsetting requirements for the compliance period. These negative offsetting requirements shall not be carried forward to subsequent compliance periods.
- 5.4.3 The aeroplane operator's total final offsetting requirements during a compliance period (i.e., FOR_c) shall be rounded up to the nearest tonne of CO₂.
- 5.4.4 The Authority shall, upon calculating the total final offsetting requirements for a given compliance period of each of the aeroplane operators attributed to it, inform the aeroplane operator of its total final offsetting requirements according to the timeline as defined in Annex 16, Part IV, Appendix 1.

Note: Information on CORSIA Eligible Emissions Units, which can be used to meet CO₂ offsetting requirements, are contained in Chapter 6.]



[CHAPTER 6

EMISSIONS UNITS

Note: An emissions unit represents one metric tonne of carbon dioxide equivalent.

6.1 Applicability of emissions units

- 6.1.1 The requirements of this Chapter shall be applicable to an aeroplane operator who is subject to offsetting requirements in Chapter 5.

Note: See also Annex 16, Part IV Chapter 1 and Appendix 1 for administration procedures relevant to this Chapter.

6.2 Cancelling CORSIA Eligible Emissions Units

- 6.2.1 The aeroplane operator shall meet its offsetting requirements according to 3.4.4, as calculated by the Authority, by cancelling CORSIA Eligible Emissions Units in a quantity equal to its total final offsetting requirements for a given compliance period (i.e., FORc). The CORSIA Eligible Emissions Units are only those units described in the ICAO document entitled “CORSIA Eligible Emissions Units”, which meet the CORSIA Emissions Unit Eligibility Criteria contained in the ICAO document entitled “CORSIA Emissions Unit Eligibility Criteria”. These ICAO documents are available on the ICAO CORSIA website.

- 6.2.2 To fulfil the provisions in 6.2.1, the aeroplane operator shall:

- (a) cancel such CORSIA Eligible Emissions Units within a registry designated by a CORSIA Eligible Emissions Unit Programme in accordance with the timeline as defined in Annex 16, Part IV, Appendix 1; and
- (b) request each CORSIA Eligible Emissions Unit Programme registry to make visible on the registry’s public website, information on each of the aeroplane operator’s cancelled CORSIA Eligible Emissions Units for a given compliance period, as defined in Appendix 1. Such information for each cancelled CORSIA Eligible Emissions Unit shall include the consolidated identifying information in Field 5 of Annex 16, Part IV, Table A5-7, except fields 5.j, 5.k and 5.m.

Note: “Cancel” means the permanent removal and single use of a CORSIA Eligible Emissions Unit within a CORSIA Eligible Emissions Unit Programme designated registry such that the same emissions unit may not be used more than once. This is sometimes also referred to as “retirement”, “cancelled”, “cancelling” or “cancellation”.

6.3 Reporting emissions unit cancellation

- 6.3.1 The aeroplane operator shall report to the Authority, the cancellation of CORSIA Eligible Emissions Units carried out in accordance with 6.2 to meet its total final offsetting requirements for a given compliance period, by submitting to the State a copy of the verified Emissions Unit Cancellation Report for approval and a copy of the associated Verification Report. The Emissions Unit Cancellation Report shall contain information using the required fields defined in Annex 16, Part IV Appendix 5 Table A5-7 and shall be submitted to the State according to the timeline as defined in Annex 16, Part IV Appendix 1.

- 6.3.2 The Authority shall report to ICAO in accordance with the timeline as defined in Appendix 1.



This report shall contain the information as defined in Annex 16, Part IV Appendix 5 Table A5-8, using an ICAO approved form.

6.3.3 The Authority should publish the following information, once submitted to ICAO, for a given compliance period:

- (a) Total final offsetting requirements over the compliance period for each aeroplane operators attributed to the State; and
- (b) Total quantity of emissions units cancelled over the compliance period by each aeroplane operator to reconcile the total final offsetting requirements, as reported by each aeroplane operator attributed to the State.

6.4 Verification of Emissions Unit Cancellation Report

6.4.1 Verification of an aeroplane operator's Emissions Unit Cancellation Report

- (a) The aeroplane operator shall engage a verification body for the verification of its Emissions Unit Cancellation Report.

Note: The aeroplane operator may choose to use the same verification body engaged for the verification of its Emissions Report, although it is not obligated to do so.

- (b) A verification body shall conduct the verification according to ISO 14064-3:2006, and the relevant requirements in Annex 16, Part IV, Appendix 6, Section 3.
- (c) If required by the verification body, the aeroplane operator shall provide access to relevant information on the cancellation of emissions units.
- (d) Following the verification of the Emissions Unit Cancellation Report by the verification body, the aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, a copy of the Emissions Unit Cancellation Report and associated Verification Report to the Authority in accordance with the timeline in Annex 16, Part IV Appendix 1.
- (e) The State shall perform an order of magnitude check of the Emissions Unit Cancellation Report in accordance with the timeline, as defined in Annex 16, Part IV Appendix 1.

Note: Further guidance material on the verification of Emissions Unit Cancellation Report is provided in the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).

6.4.2 Verification body and national accreditation body

- (a) A verification body shall be accredited to ISO 14065:2013 and the relevant requirements in Annex 16, Part IV, Appendix 6, Section 2 by a national accreditation body, in order to be eligible to verify the Emissions Unit Cancellation Report of an aeroplane operator.

Note: An aeroplane operator may engage a verification body accredited in another State, subject to rules and regulations affecting the provision of verification services in the State to which the aeroplane operator is attributed.



- (b) A national accreditation body shall be working in accordance with ISO/IEC 17011:2004.]



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APPENDIX 1

CONTENT OF AN EMISSIONS MONITORING PLAN

1. INTRODUCTION

The Emissions Monitoring Plan of an aeroplane operator shall contain the information listed in Section 2 of this Appendix.

2. CONTENT OF EMISSIONS MONITORING PLANS

Note: The template of an Emissions Monitoring Plan (from aeroplane operator to State) is provided in Appendix 1 of the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).

2.1 Aeroplane operator identification

2.1.1 Name and address of the aeroplane operator with legal responsibility.

2.1.2 Information for attributing the aeroplane operator to a State:

- (a) **ICAO Designator:** ICAO Designator(s) used for air traffic control purposes, as listed in Doc 8585 — Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services.
- (b) **Air operator certificate:** If the aeroplane operator does not have an ICAO Designator, then a copy of the air operator certificate.
- (c) **Place of juridical registration:** If the aeroplane operator does not have an ICAO Designator or an air operator certificate, then the aeroplane operator's place of juridical registration.

2.1.3 Details of ownership structure relative to any other aeroplane operators with international flights, including identification of whether the aeroplane operator is a parent company to other aeroplane operators with international flights, a subsidiary of another aeroplane operator(s) with international flights, and/or has a parent and or subsidiaries that are aeroplane operators with international flights.

2.1.4 If the aeroplane operator in a parent-subsidiary relationship seeks to be considered a single aeroplane operator for purposes of this Regulation, then confirmation shall be provided that the parent and subsidiary(ies) are attributed to the San Marino and that the subsidiary(ies) are wholly-owned by the parent.

2.1.5 Contact information for the person within the aeroplane operator's company who is responsible for the Emissions Monitoring Plan.

2.1.6 Description of the aeroplane operator's activities (e.g. scheduled/non-scheduled, passenger/cargo/executive, and geographic scope of operations).



2.2 Fleet and operations data

2.2.1 List of the aeroplane types and type of fuel (e.g. Jet-A, Jet-A1, Jet-B, AvGas) used in aeroplanes operated for international flights at the time of submission of the Emissions Monitoring Plan, recognising that there may be changes over time. The list shall include:

- (a) Aeroplane types with a maximum certificated take-off mass of 5 700 kg or greater and the number of aeroplane per type, including owned and leased aeroplanes; and

Note: The aeroplane operator using the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) could use the functionality of the CERT to identify applicable aeroplane types.

- (b) Type of fuel(s) used by the aeroplanes (e.g., Jet-A, Jet-A1, Jet-B, AvGas).

Note: The aeroplane operator using the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) does not need to specify the type of fuel used by aeroplanes.

2.2.2 Information used for attributing international flights to the aeroplane operator:

- (a) **ICAO Designator:** List of the ICAO Designator(s) used in Item 7 of the aeroplane operator's flight plans.
- (b) **Registration marks:** If the aeroplane operator does not have an ICAO Designator, then a list of the nationality or common mark, and registration mark of aeroplanes that are explicitly stated in the air operator certificate (or equivalent) and used in Item 7 of the aeroplane operator's flight plans.

2.2.3 Procedures on how changes in the aeroplane fleet and fuel used will be tracked, and subsequently integrated in the Emissions Monitoring Plan.

2.2.4 Procedures on how the specific flights of an aeroplane will be tracked to ensure completeness of monitoring.

2.2.5 Procedures for determining which aeroplane flights are subject to the Chapter 2, Chapter 3, or Chapter 4 requirements.

Note: The aeroplane operator using the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) could use the functionality of the CERT to identify international flights, as long as all flights (i.e., domestic and international) conducted during the reporting year are entered as input into the tool.

2.2.6 List of States to where the aeroplane operator operates international flights at the time of initial submission of the Emissions Monitoring Plan.

Note: The aeroplane operator using the estimation functionality of the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) to assess its eligibility to use the CERT could use the output of the tool (i.e., list of States) as input to the Emissions Monitoring Plan submission.

2.2.7 Procedures for determining which international aeroplane flights are subject to CORSIA offsetting requirements.



Note: The aeroplane operator using the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) could use the functionality of the CERT to identify flights subject to offsetting requirements in a given year of compliance as long as the aeroplane operator uses the correct version (i.e., year of compliance) of the CERT.

2.2.8 Procedures for identifying domestic flights and/or humanitarian, medical or firefighting international flights that would not be subject to Chapter 2, Chapter 3, or Chapter 4 requirements.

2.3 Methods and means of calculating emissions from international flights

2.3.1 Methods and means for establishing the average emissions during the 2019-2020 period

2.3.1.1 If the aeroplane operator meets the eligibility criteria in 2.4.2 and chooses to use the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT), then the following information shall be provided:

- (a) An estimate of CO₂ emissions for all international flights within the applicability of Chapter 2, Chapter 3, or Chapter 4 requirements for 2019 with supporting information on how the estimation was calculated.
- (b) The type of input method used in the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT):
 - (1) Great Circle Distance input method; or
 - (2) Block Time input method.

Note: Guidance on estimating CO₂ emissions for 2019 is provided in the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).

2.3.1.2 If the aeroplane operator meets the eligibility criteria in 2.4.1 or chooses to use a Fuel Use Monitoring method as described in Appendix 2, then the following information shall be provided:

- (a) The Fuel Use Monitoring Method that will be used:
 - (1) Method A;
 - (2) Method B;
 - (3) Block-off / Block-on;
 - (4) Fuel Uplift; or
 - (5) Fuel Allocation with Block Hour.
- (b) If different Fuel Use Monitoring Methods are to be used for different aeroplane types, then the aeroplane operator shall specify which method applies to which aeroplane type;
- (c) Information on the procedures for determining and recording fuel density values (standard or actual) as used for operational and safety reasons and a reference to the relevant aeroplane operator documentation; and



- (d) The systems and procedures to monitor fuel consumption in both owned and leased aeroplane. If the aeroplane operator has chosen the Fuel Allocation with Block Hour method, information shall be provided on the systems and procedures used to establish the average fuel burn ratios as described in Appendix 2.

2.3.1.3 If the aeroplane operator is in a parent-subsidary relationship and seeks to be considered as a single aeroplane operator for purposes of this Regulation, then it shall provide the procedures that will be used for maintaining records of fuel used and emissions monitored during the 2019-2020 period of the various corporate entities. This shall be used to establish individual average emissions during the 2019- 2020 period for the parent and subsidiary (or subsidiaries).

2.3.2 Methods and means for emissions monitoring and compliance on or after 001 January 2021

2.3.2.1 If the aeroplane operator has international flights, but these are not subject to offsetting requirements, then it shall confirm whether it plans to use the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) or the Fuel Use Monitoring Methods as described in Appendix 2.

2.3.2.2. If the aeroplane operator meets the eligibility criteria in 2.5.2, and it chooses to use the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT), then the following information shall be provided:

- (a) An estimate of CO₂ emissions for all international flights subject to offsetting requirements for the year before the emissions monitoring is to occur (for example, an estimate of such emissions for 2020 for monitoring in 2021), as well as information on how the fuel use and CO₂ estimation was calculated.
- (b) The type of input method used in the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT):
 - (1) Great Circle Distance input method; or
 - (2) Block Time input method.

2.3.2.3 If the aeroplane operator meets the eligibility criteria in 2.5.1, or chooses to use a Fuel Use Monitoring method as described in Appendix 2, then the following information shall be provided:

- (a) The Fuel Use Monitoring Method that will be used:
 - (1) Method A;
 - (2) Method B;
 - (3) Block-off / Block-on;
 - (4) Fuel Uplift; or
 - (5) Fuel Allocation with Block Hour.
- (b) If different Fuel Use Monitoring Methods are to be used for different aeroplane types, then the aeroplane operator shall specify which method applies to which aeroplane type;



- (c) Information on the procedures for determining and recording fuel density values (standard or actual) as used for operational and safety reasons and a reference to the relevant aeroplane operator documentation; and
- (d) The systems and procedures to monitor fuel consumption in both owned and leased aeroplane. If the aeroplane operator has chosen the Fuel Allocation with Block Hour method, information shall be provided on the systems and procedures used to establish the average fuel burn ratios as described in Appendix 2.

2.3.2.4 If the aeroplane operator is using a Fuel Use Monitoring Method, as defined in Appendix 2, it shall state whether it plans to use the ICAO CORSIA CERT for international flights that are subject to emissions monitoring but not offsetting requirements. If so, the aeroplane operators shall also state which input method into the ICAO CORSIA CERT is being used (i.e., Great Circle Distance input method, or Block Time input method).

2.4 Data management, data flow and control

2.4.1 The aeroplane operator shall provide the following information:

- (a) roles, responsibilities and procedures on data management;
- (b) procedures to handle data gaps and erroneous data values, including:
 - (1) Secondary data reference sources which would be used as an alternative;
 - (2) Alternative method in case the secondary data reference source is not available; and
 - (3) For those aeroplane operators using a Fuel Use Monitoring Method, information on systems and procedures for identifying data gaps and for assessing whether the 5 per cent threshold for significant data gaps has been reached.
- (c) documentation and record keeping plan;
- (d) assessment of the risks associated with the data management processes and means for addressing significant risks;
- (e) procedures for making revisions to the Emissions Monitoring Plan and resubmitting relevant portions to the San Marino when there are material changes;
- (f) procedures for providing notice in the Emissions Report of non-material changes that require the attention of the San Marino; and
- (g) a data flow diagram summarising the systems used to record and store data associated with the monitoring and reporting of CO₂ emissions.



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APPENDIX 2

FUEL USE MONITORING METHODS

1. INTRODUCTION

Note: The procedures specified in this Appendix are concerned with the monitoring of fuel use by aeroplane operators. The methods proposed are representative of the most accurate established practices.

Any equivalent procedures to those contained in this Appendix shall only be allowed after prior application to and approval by the Authority.

2. FUEL USE MONITORING METHODS

2.1 The aeroplane operator, with the exception of an aeroplane operator eligible to use the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT), shall choose from the following fuel use monitoring methods:

- (a) Method A;
- (b) Method B;
- (c) Block-off / Block-on;
- (d) Fuel Uplift; or
- (e) Fuel Allocation with Block Hour.

2.2 Method A

2.2.1 The aeroplane operator shall use the following formula to compute fuel use according to Method A:

$$F_N = T_N - T_{N+1} + U_{N+1}$$

where:

- F_N = Fuel used for the flight under consideration (=flight N) determined using Method A (in tonnes);
- T_N = Amount of fuel contained in aeroplane tanks once fuel uplifts for the flight under consideration (i.e., flight N) are complete (in tonnes);
- T_{N+1} = Amount of fuel contained in aeroplane tanks once fuel uplifts for the subsequent flight (i.e., flight $N+1$) are complete (in tonnes); and
- U_{N+1} = Sum of fuel uplifts for the subsequent flight (i.e., flight $N+1$) measured in volume and multiplied with a density value (in tonnes).

Note 1: See 2.6.1 and 2.6.2 for requirements on fuel density values.



Note 2: Fuel uplift U_{N+1} is determined by the measurement by the fuel supplier, as documented in the fuel delivery notes or invoices for each flight.

Note 3: For ensuring completeness of the data, it is important to note that not only data generated during the flight under consideration (i.e., flight N) is needed, but also data generated from the subsequent flight (i.e., flight $N+1$). This is of particular importance when a domestic flight is followed by an international flight, or vice versa. In order to avoid data gaps it is therefore recommended that the Block-on fuel or the amount of fuel in the tank after all fuel uplifts for a flight is always recorded on flights of aeroplanes which are used for international flights. For the same reasons, fuel uplift data for all flights of those aeroplanes should be collected, before deciding which flights are international.

2.2.2 The aeroplane operator performing on an ad-hoc basis flights attributed to another aeroplane operator shall provide to the latter the fuel measurement values according to the Block-off / Block-on method.

2.2.3 Where no fuel uplift for the flight or subsequent flight takes place, the amount of fuel contained in aeroplane tanks (T_N or T_{N+1}) shall be determined at block-off for the flight or subsequent flight. In exceptional cases the variable T_{N+1} cannot be determined. This is the case when an aeroplane performs activities other than a flight, including undergoing major maintenance involving the emptying of the tanks, after the flight to be monitored. In such case the aeroplane operator may substitute the quantity " $T_{N+1} + U_{N+1}$ " with the amount of fuel remaining in tanks at the start of the subsequent activity of the aeroplane or fuel in tanks at Block-on, as recorded by technical logs.

2.3 Method B

2.3.1 The aeroplane operator shall use the following formula to compute fuel use according to Method B:

$$F_N = R_{N-1} - R_N + U_N$$

where:

F_N = Fuel used for the flight under consideration (i.e., flight N) determined using Method B (in tonnes);

R_{N-1} = Amount of fuel remaining in aeroplane tanks at the end of the previous flight (i.e., flight $N-1$ at Block-on before the flight under consideration, (in tonnes);

R_N = Amount of fuel remaining in aeroplane tanks at the end of the flight under consideration (i.e., flight N) at Block-on after the flight, (in tonnes); and

U_N = Fuel uplift for the flight considered measured in volume and multiplied with a density value (in tonnes).

Note 1: See 2.25 and 2.26 for requirements on fuel density values.

Note 2: Fuel uplift is determined by the measurement by the fuel supplier, as documented in the fuel delivery notes or invoices for each flight.



Note 3: For ensuring completeness of the data, it is important to note that not only data generated during the flight under consideration (i.e., flight N) is needed, but also data generated from the previous flight (i.e., flight $N-1$). This is in particular important when a domestic flight is followed by an international, or vice versa. For avoiding data gaps it is therefore recommended that, the amount of fuel remaining in the tank after the flight or the amount of fuel in the tank after fuel uplift is always recorded on flights of aeroplane which are used for international flights. For the same reasons, fuel uplift data for all flights of those aeroplane should be collected, before deciding which flights are international.

2.3.2 The aeroplane operator performing on an ad-hoc basis flights attributed to another aeroplane operator shall provide to the latter the fuel measurement values according to the Block-off / Block-on method.

2.3.3 Where an aeroplane does not perform a flight previous to the flight for which fuel consumption is being monitored (e.g., if the flight follows a major revision or maintenance), the aeroplane operator may substitute the quantity R_{N-1} with the amount of fuel remaining in aeroplane tanks at the end of the previous activity of the aeroplane, as recorded by technical logs.

2.4 Block-off / Block-on

2.4.1 The aeroplane operator shall use the following formula to compute fuel use according to the Block-off / Block-on Method:

$$F_N = T_N - R_N$$

where:

F_N = Fuel used for the flight under consideration (=flight N) determined using Block-off / Block-on Method (in tonnes);

T_N = Amount of fuel contained in aeroplane tanks at Block-off for the flight under consideration i.e., flight N (in tonnes); and

R_N = Amount of fuel remaining in aeroplane tanks at Block-on of the flight under consideration i.e., flight N (in tonnes).

2.5 Fuel Uplift

2.5.1 For flights with a fuel uplift unless the subsequent flight has no uplift, the aeroplane operator shall use the following formula to compute fuel use according to the Fuel Uplift Method:

$$F_N = U_N$$

where:

F_N = Fuel used for the flight under consideration (i.e., flight N) determined using fuel uplift (in tonnes); and

U_N = Fuel uplift for the flight considered, measured in volume and multiplied with a density value (in tonnes).

Note: See 2.6.1 and 2.6.2 for requirements on fuel density values.



2.5.2 For flight(s) without a fuel uplift (i.e., flight $N+1$, ..., flight $N+n$), the aeroplane operator shall use the following formula to allocate fuel use from the prior fuel uplift (i.e., from flight N) proportionally to block hour:

$$F_N = U_N * \left[\frac{BH_N}{BH_N + BH_{N+1} + \dots + BH_{N+n}} \right]$$

$$F_{N+1} = U_N * \left[\frac{BH_{N+1}}{BH_N + BH_{N+1} + \dots + BH_{N+n}} \right]$$

$$F_{N+n} = U_N * \left[\frac{BH_{N+n}}{BH_N + BH_{N+1} + \dots + BH_{N+n}} \right]$$

where:

F_N = Fuel used for the flight under consideration (i.e., flight N) determined using fuel uplift (in tonnes);

F_{N+1} = Fuel used for the subsequent flight (i.e., flight $N+1$) determined using fuel uplift (in tonnes);

F_{N+n} = Fuel used for the follow-on flight (i.e., flight $N+n$) determined using fuel uplift (in tonnes);

U_N = Fuel uplift for the flight under consideration (i.e., flight N) (in tonnes);

BH_N = Block hour for the flight under consideration (i.e., flight N) (in hours);

BH_{N+1} = Block hour for the subsequent flight (i.e., flight $N+1$) (in hours); and

BH_{N+n} = Block hour for the follow-on flight (i.e., flight $N+n$) (in hours).

Note: Fuel uplift is determined by the measurement by the fuel supplier, as documented in the fuel delivery notes or invoices for each flight.

2.6 Fuel Allocation with Block Hour

2.6.1 Computation of average fuel burn ratios

2.6.1.1 For an aeroplane operator which can clearly distinguish between international and domestic fuel uplifts, the aeroplane operator shall compute, for each aeroplane type, the average fuel burn ratios by summing up all actual fuel uplifts from international flights, divided by the sum of all actual block hours from international flights for a given year, according to the following formula:

$$AFBR_{AO,AT} = \frac{\sum_N U_{AO,AT,N}}{\sum_N BH_{AO,AT,N}}$$

where:

$AFBR_{AO,AT}$ = Average fuel burn ratios for aeroplane operator (AO) and aeroplane type (AT) (in tonnes per hour);



$U_{AO, AT, N}$ = Fuel uplifted for the international flight N for aeroplane operator (AO) and aeroplane type (AT) determined using monitoring method Fuel Uplift (in tonnes); and

$BH_{AO, AT, N}$ = Block hour for the international flight N for aeroplane operator (AO) and aeroplane type (AT) (in hours).

2.6.1.2 For an aeroplane operator which cannot clearly distinguish between international and domestic fuel uplifts, the aeroplane operator shall compute, for each aeroplane type, the average fuel burn ratios by summing up all actual fuel uplifts from international and domestic flights divided by the sum of all actual block hours from these flights for a given year, according to the following formula:

$$AFBR_{AO, AT} = \frac{\sum_N U_{AO, AT, N}}{\sum_N BH_{AO, AT, N}}$$

where:

$AFBR_{AO, AT}$ = Average fuel burn ratios for aeroplane operator (AO) and aeroplane type (AT) (in tonnes per hour);

$U_{AO, AT, N}$ = Fuel uplifted for the international or a domestic flight N for aeroplane operator (AO) and aeroplane type (AT) measured in volume and multiplied with a specific density value (in tonnes); and

$BH_{AO, AT, N}$ = Block hour for the international and domestic flight N for aeroplane operator (AO) and aeroplane type (AT) (in hours).

2.6.1.3 An aeroplane operator specific average fuel burn ratios shall be calculated on a yearly basis by using the yearly data from the actual reporting year. The average fuel burn ratios shall be reported, for each aeroplane type, in the aeroplane operator's Emissions Report.

Note 1: See 2.6.1 and 2.6.2 for requirements on fuel density values.

Note 2: Aeroplane types are contained in Doc 8643 — Aircraft Type Designators.

2.6.2 Computation of fuel use for individual flights

2.6.2.1 The aeroplane operator shall compute the fuel consumption for each international flight by multiplying the aeroplane operator specific average fuel burn ratios with the flight's block hour according to the following formula:

$$F_N = AFBR_{AO, AT} * BH_{AO, AT, N}$$

where:

F_N = Fuel allocated to the international flight under consideration (i.e., flight N) using the Fuel Allocation Block Hour method (in tonnes);

$AFBR_{AO, AT}$ = Average fuel burn ratios for aeroplane operator (AO) and aeroplane type (AT) (in tonnes per hour); and



$BH_{AO, AT, N}$ = Block hour for the international flight under consideration (=flight N) for aeroplane operator (AO) and aeroplane type (AT) (in hours).

Note 1: Fuel uplift is determined by the measurement by the fuel supplier, as documented in the fuel delivery notes or invoices for each flight.

Note 2: The Verification Report of the external verification body includes an assessment of the aeroplane operator specific average fuel burn ratio per ICAO aircraft type designator used.

Note 3: Average fuel burn ratio (AFBR) based on all flights for a reporting year and rounded to at least three decimal places.

2.6.2.2 A verification body shall cross-check whether the emissions reported are reasonable in comparison to other fuel related data of the aeroplane operator.



APPENDIX 3

CONTENT OF AN EMISSIONS REPORT FROM AEROPLANE OPERATOR TO STATE

<i>Field #</i>	<i>Data Field</i>	<i>Details</i>
Field 1	Aeroplane operator information	1.a Name of aeroplane operator 1.b Detailed contact information of aeroplane operator 1.c Name of a point of contact 1.d Method and identifier used to attribute an aeroplane operator to San Marino in accordance with 1.2.1 1.e State
Field 2	Reference details of aeroplane operator Emissions Monitoring Plan	2 Reference to the Emissions Monitoring Plan that is the basis for emissions monitoring that year <i>Note: San Marino may require providing reference to updated Emissions Monitoring Plan, if applicable.</i>
Field 3	Information to identify the verification body and Verification Report	3.a Name and contact information of the verification body 3.b Verification Report to be a separate report from aeroplane operator's Emissions Report
Field 4	Reporting year	4. Year during which emissions were monitored
Field 5	Type and mass of fuel(s) used	5.a Total fuel mass per type of fuel: <ul style="list-style-type: none"> • Jet-A (in tonnes) • Jet-A1 (in tonnes) • Jet-B (in tonnes) • AvGas (in tonnes) <i>Note 1: Above totals to include CORSIA eligible fuels.</i> <i>Note 2: The aeroplane operator using the ICAO CORSIA CERT does not need to report Field 5.</i>
Field 6	Total number of international flights during the reporting period	6.a Total number of international flights, subject to Chapter 2, Chapter 3, and Chapter 4 requirements, during the reporting period. <i>Note: Total (sum of values from Field 7)</i>
Field 7	Number of international flights per State pair or aerodrome pair	7.a Number of international flights, subject to Chapter 2, Chapter 3, and Chapter 4 requirements, per State pair (no rounding); or 7.b Number of international flights per aerodrome pair (no rounding).



Field 8	CO ₂ emissions per aerodrome pair or State pair	8.a CO ₂ emissions from international flights, subject to Chapter 2, Chapter 3, and Chapter 4 requirements, per State pair (in tonnes); or 8.b CO ₂ emissions from international flights, subject to Chapter 2, Chapter 3, or Chapter 4 requirements, per aerodrome pair (in tonnes).
Field 9	Scale of data gaps	9.a Per cent of data gaps (according to criteria defined in Part 4.17 and rounded to the nearest 0.1%) 9.b Reason for data gaps if per cent of data gaps exceeds the threshold defined in 4.5.2
Field 10	Aeroplane information	10.a List of aeroplane types 10.b Aeroplane identifiers used in flight plans' Item 7 during the year for all international flights. Where the identifier is based on an ICAO Designator, only the ICAO Designator is to be reported 10.c Information on leased aeroplanes 10.d Average fuel burn ratio (AFBR) for each aeroplane type under 10.a in line with Doc 8643 — <i>Aircraft Type Designator</i> (in tonnes per hour to 3 decimal places) <i>Note: 10.d is only required if the aeroplane operator is using the Fuel Allocation with Block Hour method, as defined in Appendix 2.</i>
Field 11	Eligibility for and use of the ICAO CORSIA CO ₂ Estimation and Reporting Tool (CERT) as per Chapter 2	11.a Version of the ICAO CORSIA CERT used 11.b Scope of use of the ICAO CORSIA CERT i.e., on all flights or only on the international flights not subject to offsetting requirements
Field 12 <i>Note.- If emissions reductions from the use of CORSIA eligible fuel are claimed, see Appendix 4 for supplementary information that is to be provided with the aeroplane operator's</i>	CORSIA eligible fuel claimed	12.a Fuel type (i.e., type of fuel, feedstock and conversion process) 12.b Total mass of the neat CORSIA eligible fuel claimed (in tonnes) per fuel type
	Emissions information (per fuel type)	12.c Approved Life Cycle Emissions values 12.d Emissions reductions claimed from a CORSIA eligible fuel
	Emissions reductions (total)	12.e Total emissions reductions claimed from the use of all CORSIA eligible fuels (in tonnes) <i>Note. – During the 2019-2020 period, fields 12.a to 12.e are not required as the applicability of CORSIA offsetting requirements starts on 001 January 2021 i.e., there are no offsetting requirements and no emissions reductions from the use of CORSIA eligible fuels during the 2019-2020 period.</i>



Field 13	Total CO ₂ emissions	<p>13.a Total CO₂ emissions (based on total mass of fuel in tonnes from Field 5 and reported in tonnes)</p> <p>13.b Total CO₂ emissions from flights subject to offsetting requirements (in tonnes)</p> <p>13.c Total CO₂ emissions from international flights, subject to Chapter 2, Chapter 3, and Chapter 4 requirements, and that are not subject to offsetting requirements (in tonnes)</p> <p><i>Note: During the 2019-2020 period, only fields 13.a is required as the applicability of CORSIA offsetting requirements starts on 001 January 2021 i.e., there are no State pairs subject to offsetting requirements during the 2019-2020 period.</i></p>
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APPENDIX 4

**SUPPLEMENTARY INFORMATION TO AN AEROPLANE OPERATOR'S EMISSIONS
REPORT IF EMISSIONS REDUCTIONS FROM THE USE OF EACH CORSIA ELIGIBLE
FUEL BEING CLAIMED**

Field #	Data Field	Details
Field 1	Purchase date of the neat CORSIA eligible fuel	
Field 2	Identification of the producer of the neat CORSIA eligible fuel	2.a Name of producer of the neat CORSIA eligible fuel 2.b Contact information of the producer of the neat CORSIA eligible fuel
Field 3	Fuel Production	3.a Production date of the neat CORSIA eligible fuel 3.b Production location of the neat CORSIA eligible fuel 3.c Batch number of each batch of neat CORSIA eligible fuel 3.d Mass of each batch of neat CORSIA eligible fuel produced
Field 4	Fuel type	4.a Type of fuel (i.e., Jet-A, Jet-A1, Jet-B, AvGas) 4.b Feedstock used to create the neat CORSIA eligible fuel 4.c Conversion process used to create the neat CORSIA eligible fuel
Field 5	Fuel Purchased	5.a Proportion of neat CORSIA eligible fuel batch purchased (rounded to the nearest %) <i>Note: If less than an entire batch of CORSIA eligible fuel is purchased.</i> 5.b Total mass of each batch of neat CORSIA eligible fuel purchased (in tonnes) 5.c Mass of neat CORSIA eligible fuel purchased (in tonnes) <i>Note: Field 5.c is equal to the total for all batches of CORSIA eligible fuels reported in Field 5.b.</i>
Field 6	Evidence that fuel satisfies the CORSIA Sustainability Criteria	i.e., valid sustainability certification document



Field 7	Life cycle emissions values of the CORSIA eligible fuel	7.a	Default or Actual Life Cycle Emissions Value (LS_f) for given CORSIA eligible fuel f , which is equal to the sum of 7.b and 7.c (in gCO_2e/MJ rounded to the nearest whole number)
		7.b	Default or Actual Core Life Cycle Assessment (LCA) value for given CORSIA eligible fuel f (in gCO_2e/MJ rounded to the nearest whole number)
		7.c	Default Induced Land Use Change (ILUC) value for given CORSIA eligible fuel f (in gCO_2e/MJ rounded to the nearest whole number)
Field 8	Intermediate purchaser	8.a	Name of the intermediate purchaser
		8.b	Contact information of the intermediate purchaser
		<i>Note: This information would be included in the event that the aeroplane operator claiming emissions reductions from the use of CORSIA eligible fuels was not the original purchaser of the fuel from the producer (e.g., the aeroplane operator purchased fuel from a broker or a distributor). In those cases, this information is needed to demonstrate the complete chain of custody from production to blend point.</i>	
Field 9	Party responsible for shipping of the neat CORSIA eligible fuel to the fuel blender	9.a	Name of party responsible for shipping of the neat CORSIA eligible fuel to the fuel blender
		9.b	Contact information of party responsible for shipping of the neat CORSIA eligible fuel to the fuel blender
Field 10	Fuel Blender	10.a	Name of the party responsible for blending neat CORSIA eligible fuel with aviation fuel
		10.b	Contact information of the party responsible for blending neat CORSIA eligible fuel with aviation fuel
Field 11	Location where neat CORSIA eligible fuel is blended with aviation fuel		
Field 12	Date the neat CORSIA eligible fuel was received by blender		
Field 13	Mass of neat CORSIA eligible fuel received (in tonnes)	<i>Note: This number may differ from the number in Field 5.c in cases where only a portion of a batch or batches are received by the blender (i.e. due to sale to intermediate purchaser).</i>	
Field 14	Blend ratio of neat CORSIA eligible fuel and aviation fuel (rounded to the nearest %)		



Field 15	Documentation demonstrating that the batch or batches of neat CORSIA eligible fuel were blended into aviation fuel (e.g., the subsequent Certificate of Analysis of the blended fuel)	
Field 16	Mass of neat CORSIA eligible fuel claimed (in tonnes)	<i>Note: This number may differ from the number in Field 5.c in cases where only a portion of a batch or batches are claimed by the aeroplane operator.</i>



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APPENDIX 5

EMISSIONS REPORT FROM A STATE TO ICAO FOR 2019 AND 2020

Field #	Data Field	Details
Field 1	Total annual CO ₂ emissions per State pair aggregated for all aeroplane operators attributed to the State (in tonnes)	<i>Note: Include emissions from CORSIA eligible fuels, calculated using fuel conversion factor(s) from corresponding aviation fuels, in accordance with 2.6.3.</i>



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APPENDIX 6

EMISSIONS REPORT FROM A STATE TO ICAO ANNUALLY AFTER 2021

Field #	Data Field	Details
Field 1	Total annual CO ₂ emissions on each State pair aggregated for all aeroplane operators attributed to the State	1.a Total annual CO ₂ emissions on each State pair subject to offsetting requirements aggregated for all aeroplane operators attributed to the State (in tonnes) 1.b Total annual CO ₂ emissions on each State pair not subject to offsetting requirements, aggregated for all aeroplane operators attributed to the State (in tonnes)
Field 2	Total annual CO ₂ emissions for each aeroplane operator attributed to the State	2.a Total annual CO ₂ emissions for each aeroplane operator attributed to the State (in tonnes) 2.b Indicate whether the ICAO CORSIA CO ₂ Estimation and Reporting Tool (CERT) is used
Field 3	Total aggregated annual CO ₂ emissions for all State pairs subject to offsetting requirements for each aeroplane operator attributed to the State (in tonnes)	
Field 4	Total aggregated annual CO ₂ emissions for all State pairs not subject to offsetting requirements for each aeroplane operator attributed to the State (in tonnes)	



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APPENDIX 7

**CORSIA ELIGIBLE FUELS SUPPLEMENTARY INFORMATION TO THE EMISSIONS
REPORT FROM A STATE TO ICAO**

Field#	Data Field	Details	Notes
Field 1	Production	1.a Production year of CORSIA eligible fuel claimed 1.b Producer of CORSIA eligible fuel	
Field 2	Batch of CORSIA eligible fuel	2.a Batch number(s) of each CORSIA eligible fuel claimed 2.b Total mass of each batch of CORSIA eligible fuel claimed (in tonnes)	
Field 3	CORSIA eligible fuel claimed	3.a Fuel types (i.e., type of fuel, feedstock and conversion process) 3.b Total mass of the neat CORSIA eligible fuel (in tonnes) per fuel type being claimed by all the aeroplane operators attributed to the State	<i>This would provide a total mass for each fuel type being claimed by all aeroplane operators attributed to the State.</i>
Field 4	Emissions information (per fuel type)	4. Total emissions reductions claimed from the use of a CORSIA eligible fuel (in tonnes)	
Field 5	Emissions reductions (total)	5. Total emissions reductions claimed by all aeroplane operators attributed to the State from the use of all CORSIA eligible fuel use (in tonnes)	



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APPENDIX 8

REQUIREMENTS FOR CONDUCTING THE VERIFICATION

The verification team shall conduct the verification according to ISO 14064-3:2006, and the following additional requirements.

3.1 Level of assurance (ISO 14064-3:2006 section 4.3.1)

A reasonable level of assurance shall be required for all verifications under this Regulation.

3.2 Objectives (ISO 14064-3:2006 section 4.3.2)

3.2.1 When conducting the verification of an Emissions Report, the verification body shall perform sufficient procedures to conclude whether:

- (a) the greenhouse gas assertion is materially fair and an accurate representation of emissions over the period of the Emissions Report and is supported by sufficient and appropriate evidence;
- (b) the aeroplane operator has monitored, quantified and reported its emissions over the period of the Emissions Report in accordance with this Regulation and the approved Emissions Monitoring Plan;
- (c) the aeroplane operator has correctly applied the method of flight attribution documented in the approved Emissions Monitoring Plan and in accordance with 1.3.2 of this Appendix, to ensure a correct attribution of leased aeroplane and international flights operated by other aeroplane operators under the same corporate structure;
- (d) the stated amount of emissions reductions from the use of CORSIA eligible fuels is materially fair and an accurate representation of emissions reductions over the reporting period, and is supported by sufficient and appropriate internal and external evidence;
- (e) the claimed batches of CORSIA eligible fuels have not also been claimed by the aeroplane operator under any other voluntary or mandatory schemes it has participated in (where the emissions reductions from CORSIA eligible fuels may be claimed), during the current compliance period, as well as the compliance period immediately preceding it; and
- (f) the aeroplane operator has monitored, calculated and reported its emissions reductions associated from the use of CORSIA eligible fuels over the period of the reporting period in accordance with this Regulation.

3.2.2 When conducting the verification of an Emissions Unit Cancellation Report, the verification body shall perform sufficient procedures to conclude whether:

- (a) the aeroplane operator has accurately reported cancellations of its CORSIA Eligible Emissions Units in accordance with this Regulation;
- (b) the stated number of cancelled CORSIA Eligible Emissions Units is sufficient for meeting the aeroplane operator's total final offsetting requirements associated with the relevant compliance period, after accounting for any claimed emissions reductions from the use of CORSIA eligible fuels, and the aeroplane operator can demonstrate sole right of use to such cancelled CORSIA Eligible Emissions Units; and



- (c) the eligible emissions units cancelled by the aeroplane operator to meet its offsetting requirements under this Regulation have not been used by the aeroplane operator to offset any other emissions.

3.3 Scope (ISO 14064-3:2006 section 4.3.4)

3.3.1 When conducting the verification of an Emissions Report, the scope of the verification shall reflect the period of time and information covered by the report and the CORSIA eligible fuels claim(s) where applicable. This includes:

- (a) CO₂ emissions from aeroplane fuel monitoring methods, calculated in accordance with Chapter 2; and
- (b) Emissions reductions from the use of CORSIA eligible fuel(s).

3.3.2 The scope of the verification of the CORSIA eligible fuel claim(s) in the Emissions Report shall include the following:

- (a) Any internal aeroplane operator procedures for CORSIA eligible fuels, including aeroplane operator controls to ensure the claimed CORSIA eligible fuels satisfies the CORSIA Sustainability Criteria;
- (b) Checks for double claiming are limited to the specific aeroplane operator. Any findings outside of this scope are not relevant for the verification statement, however they should still be included in the Verification Report for further consideration by the State;
- (c) Assessment of verification risk with appropriate changes to the verification plan; and
- (d) Assessment of whether there is sufficient access to relevant internal and external information to obtain sufficient confidence in each CORSIA eligible fuel claim. Where evidence of the sustainability or the size of the CORSIA eligible fuels claim is considered either inappropriate or insufficient, further information should be sought directly from the fuel producer with direct access facilitated through the aeroplane operator.

3.3.3 When conducting the verification of an Emissions Unit Cancellation Report, the scope of the verification shall reflect the period of time and information covered by the report and the verification body shall confirm that the cancelled eligible emissions units used to meet the aeroplane operator's offsetting requirements under this Regulation have not been used to offset any other emissions.

3.4 Materiality (ISO 14064-3:2006 section 4.3.5)

3.4.1 When conducting the verification of an Emissions Report, the verification body shall apply the following materiality thresholds:

- (a) of 2 per cent for aeroplane operators with annual emissions on international flights subject to Chapter 2, Chapter 3, and Chapter 4 requirements above 500 000 tonnes; and
- (b) of 5 per cent for aeroplane operators with annual emissions on international flights subject to Chapter 2, Chapter 3, or Chapter 4 requirements equal or less than 500 000 tonnes of CO₂.



- 3.4.2 When conducting the verification of an Emissions Report, the over and understatements in 3.4.1 of this Appendix shall be allowed to balance out in both cases.

3.5 General (ISO 14064-3:2006 section 4.4.1)

Prior to the development of the verification approach, the verification body shall assess the risk of misstatements and non-conformities and their likelihood of a material effect on the basis of a strategic analysis of the aeroplane operator's greenhouse gas emissions information. Depending on the information obtained during the verification, the verification body shall revise the risk assessment and modify or repeat the verification activities to be performed.

Note: Definitions of strategic analysis and the assessment of risks are contained in the IAF Mandatory Document for the Application of ISO 14065: 2013, Issue 2 (IAF MD 6:2014).

3.6 Validation or verification plan (ISO 14064-3:2006 section 4.4.2)

- 3.6.1 The verification team shall prepare the verification plan on the basis of the strategic analysis and assessment of risks. The verification plan shall include a description of the verification activities for each variable that has a potential impact on the reported emissions. The verification team shall consider the assessment of risk, and the requirement to deliver a verification opinion with reasonable assurance, when determining sample size.
- 3.6.2 The verification plan shall include the following:
- (a) verification team members, roles, responsibilities and qualifications;
 - (b) any external resources required;
 - (c) schedule of verification activities; and
 - (d) sampling plan, including the processes, controls and information to be verified and details of the risk assessment conducted to identify these.

3.7 Sampling plan (ISO 14064-3:2006 section 4.4.3)

- 3.7.1 The Emissions Report sampling plan shall include the following:
- (a) number and type of records and evidence to be examined;
 - (b) methodology used to determine a representative sample; and
 - (c) justification for the selected methodology.
- 3.7.2 When conducting the verification of an Emissions Unit Cancellation Report, the verification body shall not rely on sampling.

3.8 Assessment of GHG data and information (ISO 14064-3:2006 section 4.6)

- 3.8.1 The verification team shall confirm that the Emissions Report data has been collected in accordance with the approved Emissions Monitoring Plan and monitoring requirements specified in this Regulation.



3.8.2 In accordance with the Emissions Report sampling plan, the verification body shall carry out substantive data testing consisting of analytical procedures and data verification to assess the plausibility and completeness of data. The verification team shall, as a minimum, assess the plausibility of fluctuations and trends over time or between comparable data items as well as identify and assess immediate outliers, unexpected data, anomalies, and data gaps.

3.8.3 Depending on the outcome of Emissions Report data testing and assessment, the assessment of risk, verification and sampling plans shall be amended, where necessary.

3.9 Evaluation of the GHG assertion (ISO 14064-3:2006 section 4.8)

3.9.1 The verification body shall use an independent reviewer not involved in the verification activities to assess the internal verification documentation, and the Verification Report, prior to its submission to the aeroplane operator and State.

3.9.2 The independent review, whose scope includes the complete verification process, shall be recorded in the internal verification documentation.

3.9.3 The independent review shall be performed to ensure that the verification process has been conducted in accordance with ISO 14065:2013, ISO 14064-3:2006 and this Regulation, and that the evidence gathered is appropriate and sufficient to enable the verification body to issue a Verification Report with reasonable assurance.

3.10 Validation and verification statement (ISO 14064-3:2006 section 4.9)

3.10.1 The verification body shall submit a copy of the Verification Report to the aeroplane operator. Upon authorisation by the aeroplane operator, the verification body shall forward a copy of the Verification Report together with the Emissions Report, the Emissions Unit Cancellation Report, or both, to the State. The Verification Report shall include:

- (a) names of the verification body and verification team members;
- (b) time allocation (including any revisions and dates);
- (c) scope of the verification;
- (d) main results of impartiality and avoidance of conflict of interest assessment;
- (e) criteria against which the Emissions Report was verified;
- (f) aeroplane operator information and data used by the verification body to cross-check data and carry out other verification activities;
- (g) main results of the strategic analysis and assessment of risk;
- (h) description of verification activities undertaken, where each was undertaken (on-site vs off-site) and results of checks made on the CO₂ emissions information system and controls;
- (i) description of data sampling and testing conducted, including records or evidence sampled, sample size, and sampling method(s) used;
- (j) the results of all data sampling and testing, including cross-checks;



- (k) compliance with the Emissions Monitoring Plan;
- (l) any non-compliances of the Emissions Monitoring Plan with this Regulation;
- (m) non-conformities and misstatements identified (including a description of how these have been resolved);
- (n) conclusions on data quality and materiality;
- (o) conclusions on the verification of the Emissions Report;
- (p) conclusions on the verification of the Emissions Unit Cancellation Report;
- (q) justifications for the verification opinion made by the verification body;
- (r) results of the independent review and the name of the independent reviewer; and
- (s) concluding verification statement.

3.10.2 When conducting the verification of an Emissions Unit Cancellation Report, only 3.10.1 (a), (b), (c), (d), (f), (g), (h), (m), (p), (q), (r) and (s) of this Appendix shall be applicable.

3.10.3 The verification body shall provide a conclusion on each of the verification objectives listed in 3.2, as applicable, in the concluding verification statement.

3.10.4 When conducting the verification of an Emissions Report or an Emissions Unit Cancellation Report, the verification body shall choose between two types of verification opinion statements, either 'verified as satisfactory' or 'verified as not satisfactory'. If the report includes non-material misstatements and / or non-material non-conformities, the report shall be 'verified as satisfactory with comments', specifying the misstatements and non-conformities. If the report contains material misstatements and / or material non-conformities, or if the scope of the verification is too limited or the verification body is not able to obtain sufficient confidence in the data, then the report shall be 'verified as not satisfactory'.

3.11 Validation or verification records (ISO 14064-3:2006 section 4.10)

3.11.1 On request of the Authority, the verification body shall disclose the internal verification documentation on a confidential basis to the Authority.

3.11.2 Where issues that may render a previously issued verification statement invalid or inaccurate are brought to the attention of the verification body, then it shall notify the Authority.



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APPENDIX 9

REQUIREMENTS FOR A VERIFICATION BODY

1. INTRODUCTION

Note: The procedures specified in this Appendix are concerned with the verification requirements in Chapter 4 of this Regulation.

2. VERIFICATION BODY

- 2.1 The verification body shall be accredited to ISO 14065:2013, and meet the following additional requirements in order to be eligible to verify the Emissions Report, and the Emissions Unit Cancellation Report where applicable, of an aeroplane operator.

Note: The following documents should be used as normative references that provide guidance for the application of this Regulation:

- (a) *Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA);*
- (b) *The International Accreditation Forum (IAF) document entitled, “IAF Mandatory Document for the Application of ISO 14065:2013 (IAF MD 6:2014)”;* and
- (c) *The International Organisation for Standardisation (ISO) document entitled, “ISO 14066:2011 Greenhouse gases – Competence requirements for greenhouse gas validation team and verification teams”.*

2.2 Avoidance of conflict of interest (ISO 14065:2013 section 5.4.2)

- 2.2.1 If the leader of the verification team undertakes six annual verifications for one aeroplane operator, then the leader of the verification team shall take a three consecutive year break from providing verification services to that same aeroplane operator. The six year maximum period includes any greenhouse gas verifications performed for the aeroplane operator prior to it requiring verification services under this regulation.
- 2.2.2 The verification body, and any part of the same legal entity, shall not be an aeroplane operator, the owner of an aeroplane operator or owned by an aeroplane operator.
- 2.2.3 The verification body, and any part of the same legal entity, shall not be a body that trades emissions units, the owner of a body that trades emissions units or owned by a body that trades emissions units.
- 2.2.4 The relationship between the verification body and the aeroplane operator shall not be based on common ownership, common governance, common management or personnel, shared resources, common finances and common contracts or marketing.
- 2.2.5 The verification body shall not take over any delegated activities from the aeroplane operator with regard to the preparation of the Emissions Monitoring Plan, the Emissions Report (including monitoring of fuel use and calculation of CO₂ emissions) and the Emissions Unit Cancellation Report.



- 2.2.6 To enable an assessment of impartiality and independence by the national accreditation body, the verification body shall document how it relates to other parts of the same legal entity.

2.3 Management and personnel (ISO 14065:2013 section 6.1)

- 2.3.1 The verification body shall establish, implement and document a method for evaluating the competence of the verification team personnel against the competence requirements outlined in ISO 14065:2013, ISO 14066:2011 and paragraphs 2.4, 2.5 and 2.6 of this Appendix.
- 2.3.2 The verification body shall maintain records to demonstrate the competency of the verification team and personnel in accordance with paragraph 2.4 of this Appendix.

2.4 Competencies of personnel (ISO 14065:2013 section 6.2)

The verification body shall:

- (a) identify and select competent team personnel for each engagement;
- (b) ensure appropriate verification team composition for the aviation engagement;
- (c) ensure the verification team, at a minimum, includes a team leader who is responsible for the engagement planning and management of the team;
- (d) ensure continued competence of all personnel conducting verification activities, including continual professional development and training for verifiers to maintain and/or develop competencies; and
- (e) conduct regular evaluations of the competence assessment process to ensure that it continues to be relevant for this Regulation.

2.5 Validation or verification team knowledge (ISO 14065:2013 section 6.3.2)

- 2.5.1 The verification team as a whole, and the independent reviewer, shall demonstrate knowledge of:
- (a) the requirements as outlined in this Regulation, the Assembly Resolution A39-3, the *Environmental Technical Manual* (Doc 9501), Volume IV – *Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)*, and any public ICAO explanatory material;
 - (b) the verification requirements as outlined in this Regulation, and *Environmental Technical Manual* (Doc 9501), Volume IV – *Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)*, including materiality threshold, verification criteria, verification scope and objectives and the Verification Report preparation and submission requirements;
 - (c) the eligibility criteria for technical exemptions, scope of applicability, State pair phase-in rules, and State pair coverage as outlined in this Regulation and the Assembly Resolution A39-3;
 - (d) the monitoring requirements as outlined in this Regulation; and
 - (e) the national requirements in addition to the provisions set out in this Regulation.



2.5.2 When conducting the verification of an Emissions Unit Cancellation Report, only 2.5.1 (a), (b) and (e) shall be applicable.

2.6 Validation or verification team technical expertise (ISO 14065:2013 section 6.3.3)

2.6.1 The verification team as a whole, and the independent reviewer, shall demonstrate knowledge in the following technical competencies:

- (a) general technical processes in the field of civil aviation;
- (b) aviation fuels and their characteristics, including CORSIA eligible fuel;
- (c) fuel related processes including flight planning and fuel calculation;
- (d) relevant aviation sector trends or situations that may impact the CO₂ emissions estimate;
- (e) CO₂ emissions quantification methodologies as outlined in this Regulation, including assessment of Emissions Monitoring Plans;
- (f) fuel use monitoring and measurement devices, and related procedures for monitoring of fuel use related to greenhouse gas emissions, including procedures and practices for operation, maintenance and calibration of such measurement devices;
- (g) greenhouse gas information and data management systems and controls, including quality management systems and quality assurance / quality control techniques;
- (h) aviation related IT systems such as flight planning software or operational management systems;
- (i) knowledge of approved CORSIA Sustainability Certification Schemes relevant for CORSIA eligible fuels under this Regulation, including certification scopes; and
- (j) basic knowledge of greenhouse gas markets and emissions units programme registries.

2.6.2 Evidence of the above competencies shall include proof of relevant professional experience, complemented by appropriate training and education credentials.

2.6.3 When conducting the verification of an Emissions Report, 2.6.1 (a) to (i) of this Appendix shall be applicable.

2.6.4 When conducting the verification of an Emissions Unit Cancellation Report, only 2.6.1 (g) and (j) of this Appendix shall be applicable.

2.7 Validation or verification team data and information auditing (ISO 14065:2013 section 6.3.4)

2.7.1 The verification team as a whole shall demonstrate detailed knowledge of ISO 14064- 3:2006, including demonstrated ability to develop a risk-based verification approach, perform verification procedures including assessing data and information systems and controls, collect sufficient and appropriate evidence and draw conclusions based on that evidence.

2.7.2 Evidence of data and information auditing expertise and competencies shall include previous professional experience in auditing and assurance activities, complemented by appropriate training and education credentials.



2.8 Use of contracted validators and verifiers (ISO 14065:2013 section 6.4)

The verification body shall document roles and responsibilities of the verification personnel, including contracted persons involved in the verification activity.

2.9 Outsourcing (ISO 14065:2013 section 6.6)

2.9.1 The verification body shall not outsource the final decision on the verification and the issuance of the verification statement.

2.9.2 The independent review shall only be outsourced as long as the outsourced service is appropriate, competent, and covered by the accreditation.

2.10 Confidentiality (ISO 14065:2013 section 7.3)

The verification body shall ensure it has the express consent of the aeroplane operator prior to submission of the verified Emissions Report, the Emissions Unit Cancellation Report where applicable, and the Verification Report to the Authority. The mechanism for authorising this consent shall be specified in the contract between the verification body and aeroplane operator.

2.11 Records (ISO 14065:2013 section 7.5)

The verification body shall keep records on the verification process for a minimum of ten years, including:

- (a) client's Emissions Monitoring Plan, Emissions Report and Emissions Unit Cancellation Report where applicable;
- (b) Verification Report and related internal documentation;
- (c) identification of team members and criteria for selection of team; and
- (d) working papers with data and information reviewed by the team in order to allow for an independent party to assess the quality of the verification activities and conformance with verification requirements.

2.12 Agreement (ISO 14065:2013 section 8.2.3)

The contract between verification body and aeroplane operator shall specify the conditions for verification by stating:

- (a) scope of verification, verification objectives, level of assurance, materiality threshold and relevant verification standards (ISO 14065, ISO 14064-3, this Regulation and the Environmental Technical Manual, Volume IV);
- (b) amount of time allocated for verification;
- (c) flexibility to change time allocation if this proves necessary because of findings during the verification;
- (d) conditions which have to be fulfilled to conduct the verification such as access to all relevant documentation, personnel and premises;



- (e) requirement of the aeroplane operator to accept the audit as a potential witness audit by national accreditation body's assessors;
- (f) requirement of the aeroplane operator to authorise the release of the Emissions Report, the Emissions Unit Cancellation Report, where applicable, and the Verification Report by the verification body to the Authority; and
- (g) liability coverage.



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APPENDIX 10

ADMINISTRATION PROCEDURES

1. INTRODUCTION

The procedures specified in this Appendix summarise administrative roles and responsibilities of the stakeholders involved in implementing Part II of this Volume. Section 2 provides a list of activities, and the associated date by which the activities shall be completed.

2. COMPLIANCE PERIODS AND TIMELINE

Note.— Further information and guidance on timeline prior to 1 January 2019, is provided in the Environmental Technical Manual (Doc 9501), Volume IV – Procedures for demonstrating compliance with the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).

2.1 2019-2020 period

During the period of 2019-2020, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

Table A1-1. Details of compliance timeline for 2019-2020 period

<i>Timeline</i>	<i>Activity</i>
1 January 2019 to 31 December 2019	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2, CO ₂ emissions for 2019 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
28 February 2019	The aeroplane operator shall submit Emissions Monitoring Plan to State (only once, unless there is a need to review) in accordance with Part II, Chapter 2, 2.2.2.1.
30 April 2019	The State shall approve Emissions Monitoring Plans (only once, unless there is a review) in accordance with Part II, Chapter 2, 2.2.2.1.
30 April 2019	The State shall submit a list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as a list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.
31 May 2019	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2020 to 31 December 2020	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2, CO ₂ emissions for 2020 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2020 to 31 May 2020	The aeroplane operator shall compile 2019 CO ₂ emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>



<i>Timeline</i>	<i>Activity</i>
31 May 2020	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2019 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 June 2020 to 31 August 2020	The State shall conduct an order of magnitude check of the verified Emissions Report for 2019 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2020	<p>The State shall notify ICAO of its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2021 in accordance with Part II, Chapter 3, 3.1.3.</p> <p>The State shall also notify ICAO which option it has selected for calculating the aeroplane operator's CO₂ emissions during the 2021-2023 period in accordance with Part II, Chapter 3, 3.2.1.</p>
1 August 2020	The State shall obtain and use the ICAO document entitled "CORSIA States for Chapter 3 State Pairs" applicable for the 2021 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 August 2020	The State shall submit required information regarding CO ₂ emissions for 2019 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
30 November 2020	The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.
31 December 2020	Recommendation. — <i>The State should obtain and use the ICAO document entitled "CORSIA Aeroplane Operator to State Attributions" summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>

Note: The time for verification of the aeroplane operator's Emissions Report is longer during the 2019-2020 period than subsequent periods.



2.2 2021-2023 period

During the period of 2021-2023, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

Table A1-2. Details of compliance timeline for 2021-2023 period

<i>Timeline</i>	<i>Activity</i>
1 January 2021 to 31 December 2021	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2, CO ₂ emissions for 2021 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2021 to 31 May 2021	The aeroplane operator shall compile 2020 CO ₂ emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
31 May 2021	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2020 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 June 2021 to 31 August 2021	The State shall conduct an order of magnitude check of the verified Emissions Report for 2020 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2021	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2022 in accordance with Part II, Chapter 3, 3.1.3.
1 August 2021	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2022 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 August 2021	The State shall submit required information regarding CO ₂ emissions for 2020 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
30 September 2021	The State shall calculate and inform aeroplane operators attributed to it of their average total CO ₂ emissions during 2019 and 2020, in accordance with Part II, Chapter 2, 2.3.2.1.
30 November 2021	The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.
31 December 2021	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>



<i>Timeline</i>	<i>Activity</i>
1 January 2022 to 31 December 2022	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2022 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2022 to 30 April 2022	<p>The aeroplane operator shall compile 2021 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4.</p> <p>Recommendation.— <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i></p>
30 April 2022	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2021 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2022 to 31 July 2022	The State shall conduct an order of magnitude check of the verified Emissions Report for 2021 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2022	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2023 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2022	The State shall submit required information regarding CO ₂ emissions for 2021 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
1 August 2022	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2023 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2022	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2021 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” that can be found on the ICAO CORSIA website in accordance with Part II, Chapter 3, 3.2.1.
30 November 2022	<p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p> <p>The State shall calculate and inform aeroplane operators of offsetting requirements for 2021 in accordance with Part II, Chapter 3, 3.2, and based on a chosen formula in accordance with Part II, Chapter 3, 3.1.</p>
31 December 2022	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>



<i>Timeline</i>	<i>Activity</i>
1 January 2023 to 31 December 2023	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2, CO ₂ emissions for 2023 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2023 to 30 April 2023	<p>The aeroplane operator shall compile 2022 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4.</p> <p>Recommendation.— <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i></p>
30 April 2023	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2022 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2023 to 31 July 2023	The State shall conduct an order of magnitude check of the verified Emissions Report for 2022 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2023	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2024 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2023	The State shall submit required information regarding CO ₂ emissions for 2022 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
1 August 2023	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2024 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2023	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2022 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” that is available on the ICAO CORSIA website in accordance with Part II, Chapter 3, 3.2.1.
30 November 2023	<p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p> <p>The State shall calculate and inform aeroplane operators of offsetting requirements for 2022 in accordance with Part II, Chapter 3, 3.2, and based on a chosen formula in accordance with Part II, Chapter 3, 3.1.</p>
31 December 2023	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>

Note 1: The time for verification of the aeroplane operator’s Emissions Report is shorter during the 2021-2023 period than the 2019-2020 period.

Note 2: During the 2021-2023 period, States may determine the basis of the aeroplane operator offsetting requirements in accordance with Part II, Chapter 3, 3.2.1.



2.3 2024-2026 period

During the period of 2024-2026, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

Table A1-3. Details of compliance timeline for 2024-2026 period

<i>Timeline</i>	<i>Activity</i>
1 January 2024 to 31 December 2024	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2, CO ₂ emissions for 2024 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2024 to 30 April 2024	The aeroplane operator shall compile 2023 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2024	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2023 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2024 to 31 July 2024	The State shall conduct an order of magnitude check of the verified Emissions Report for 2023 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2024	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2025 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2024	The State shall submit required information regarding CO ₂ emissions for 2023 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
1 August 2024	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2025 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2024	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2023 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.1.
30 November 2024	The State shall calculate and inform aeroplane operators of offsetting requirements for 2023 in accordance with Part II, Chapter 3, 3.2, and based on a chosen formula in accordance with Part II, Chapter 3, 3.1. The State shall calculate and inform aeroplane operators of their total final offsetting requirements for the 2021 to 2023 period in accordance with Part II, Chapter 3, 3.4.4. The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.



<i>Timeline</i>	<i>Activity</i>
31 December 2024	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2025 to 31 December 2025	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2025 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
31 January 2025 or 60 days after the State informs aeroplane operators of their total final offsetting requirements for the 2021- 2023 period, whichever date comes later	The aeroplane operator shall cancel emissions units for compliance during the 2021 to 2023 period in accordance with Part II, Chapter 4, 4.2.
7 February 2025	The aeroplane operator shall request that their cancellation of Eligible Emissions Units for the 2021-2023 period is communicated on the respective Eligible Emissions Units Programme registry (or registries) public website(s) in accordance with Part II, Chapter 4, 4.2.2 b).
1 December 2024 to 30 April 2025	The aeroplane operator shall compile their Emissions Unit Cancellation Report covering the 2021-2023 period to be verified by a verification body, in accordance with Part II, Chapter 4, 4.4.
1 January 2025 to 30 April 2025	The aeroplane operator shall compile 2024 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2025	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2024 to the State in accordance with Part II, Chapter 2, 2.4.1.4. The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Unit Cancellation Report and associated Verification Report for the 2021-2023 period to the State in accordance with Part II, Chapter 4, 4.4.1.4.
1 May 2025 to 31 July 2025	The State shall conduct an order of magnitude check of the verified Emissions Report for 2024 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2. The State shall undertake an order of magnitude check of the verified Emissions Unit Cancellation Report for the 2021-2023 period in accordance with Part II, Chapter 4, 4.4.1.5.
30 June 2025	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2026 in accordance with Part II, Chapter 3, 3.1.3.



<i>Timeline</i>	<i>Activity</i>
31 July 2025	<p>The State shall submit required information regarding CO₂ emissions for 2024 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.</p> <p>The State shall report to ICAO the required information regarding emissions unit cancellation for the 2021-2023 period in accordance with Part II, Chapter 4, 4.3.2.</p>
1 August 2025	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2026 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2025	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2024 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2025	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2024, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>
31 December 2025	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2026 to 31 December 2026	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2026 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2026 to 30 April 2026	<p>The aeroplane operator shall compile 2025 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4.</p> <p>Recommendation.— <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i></p>
30 April 2026	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2025 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2026 to 31 July 2026	The State shall conduct an order of magnitude check of the verified Emissions Report for 2025 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2026	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2027 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2026	The State shall submit required information regarding CO ₂ emissions for 2025 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.



<i>Timeline</i>	<i>Activity</i>
1 August 2026	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2027 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2026	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2025 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2026	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2025, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>
31 December 2026	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>

Note: If the Sector’s Growth Factor (SGF) for 2023 is not available by 31 October 2024 and States are delayed in their ability to inform operators of their total final offsetting requirements for the 2021 to 2023 period, ICAO will publish updated deadlines related to the cancellation of emissions units for compliance during the 2021 to 2023 period, including:

- *no sooner than 90 days after the SGF for 2023 is made available for the aeroplane operator to cancel emissions units for compliance during the 2021 to 2023 period in accordance with Part II, Chapter 4, 4.2;*
- *no sooner than 180 days after the SGF for 2023 is made available for the aeroplane operator and the verification body to both submit the verified Emissions Unit Cancellation Report and associated Verification Report for the 2021-2023 period to the State in accordance with Part II, Chapter 4, 4.4.1.4; and*
- *no sooner than 270 days after the SGF for 2023 is made available for the State to report to ICAO the required information regarding emissions unit cancellation for the 2021-2023 period in accordance with Part II, Chapter 4, 4.3.2.*



2.4 2027-2029 period

During the period of 2027-2029, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

Table A1-4. Details of compliance timeline for 2027-2029 period

<i>Timeline</i>	<i>Activity</i>
1 January 2027 to 31 December 2027	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2027 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2027 to 30 April 2027	The aeroplane operator shall compile 2026 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2027	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2026 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2027 to 31 July 2027	The State shall conduct an order of magnitude check of the verified Emissions Report for 2026 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2027	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2028 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2027	The State shall submit required information regarding CO ₂ emissions for 2026 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
1 August 2027	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2028 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2027	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2026 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2027	The State shall calculate and inform aeroplane operators of their offsetting requirements for 2026, in accordance with Part II, Chapter 3, 3.2. The State shall calculate and inform aeroplane operators of their total final offsetting requirements for the 2024 to 2026 period, in accordance with Part II, Chapter 3, 3.4.4. The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.



<i>Timeline</i>	<i>Activity</i>
31 December 2027	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2028 to 31 December 2028	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2 2.2, CO ₂ emissions for 2028 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
31 January 2028 or 60 days after the State informs aeroplane operators of their total final offsetting requirements for the 2024- 2026 period, whichever date comes later	The aeroplane operator shall cancel emissions units for compliance during the 2024 to 2026 period in accordance with Part II, Chapter 4, 4.2.
7 February 2028	The aeroplane operator shall request that their cancellation of Eligible Emissions Units for the 2024-2026 period is communicated on the respective Eligible Emissions Units Programme registry (or registries) public website(s) in accordance with Part II, Chapter 4, 4.2.2 b).
1 December 2027 to 30 April 2028	The aeroplane operator shall compile their Emissions Unit Cancellation Report covering the 2024-2026 period to be verified by a verification body, in accordance with Part II, Chapter 4, 4.4.
1 January 2028 to 30 April 2028	The aeroplane operator shall compile 2027 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2028	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2027 to the State in accordance with Part II, Chapter 2, 2.4.1.4. The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Unit Cancellation Report and associated Verification Report for the 2024-2026 compliance period to the State in accordance with Part II, Chapter 4, 4.4.1.4.
1 May 2028 to 31 July 2028	The State shall conduct an order of magnitude check of the verified Emissions Report for 2027 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2. The State shall undertake an order of magnitude check of the verified Emissions Unit Cancellation Report for the 2024-2026 period in accordance with Part II, Chapter 4, 4.4.1.5.
30 June 2028	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2028 in accordance with Part II, Chapter 3, 3.1.3.



<i>Timeline</i>	<i>Activity</i>
31 July 2028	<p>The State shall submit required information regarding CO₂ emissions for 2027 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.</p> <p>The State shall report to ICAO the required information regarding emissions unit cancellation for the 2024-2026 period in accordance with Part II, Chapter 4, 4.3.2.</p>
1 August 2028	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2029 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2028	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2027 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2028	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2027, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>
31 December 2028	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2029 to 31 December 2029	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2029 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2029 to 30 April 2029	<p>The aeroplane operator shall compile 2028 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4.</p> <p>Recommendation.— <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i></p>
30 April 2029	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2028 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2029 to 31 July 2029	The State shall conduct an order of magnitude check of the verified Emissions Report for 2028 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2029	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2030 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2029	The State shall submit required information regarding CO ₂ emissions for 2028 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.



<i>Timeline</i>	<i>Activity</i>
1 August 2029	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2030 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2029	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2028 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2029	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2028, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>
31 December 2029	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>

Note: If the Sector’s Growth Factor (SGF) for 2026 is not available by 31 October 2027 and States are delayed in their ability to inform operators of their total final offsetting requirements for the 2024 to 2026 period, ICAO will publish updated deadlines related to the cancellation of emissions units for compliance during the 2024 to 2026 period, including:

- *no sooner than 90 days after the SGF for 2026 is made available for the aeroplane operator to cancel emissions units for compliance during the 2024 to 2026 period in accordance with Part II, Chapter 4, 4.2;*
- *no sooner than 180 days after the SGF for 2026 is made available for the aeroplane operator and the verification body to both submit the verified Emissions Unit Cancellation Report and associated Verification Report for the 2024-2026 period to the State in accordance with Part II, Chapter 4, 4.4.1.4; and*
- *no sooner than 270 days after the SGF for 2026 is made available for the State to report to ICAO the required information regarding emissions unit cancellation for the 2024-2026 period in accordance with Part II, Chapter 4, 4.3.2.*



2.5 2030-2032 period

During the period of 2030-2032, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

Table A1-5. Details of compliance timeline for 2030-2032 period

<i>Timeline</i>	<i>Activity</i>
1 January 2030 to 31 December 2030	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2030 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2030 to 30 April 2030	The aeroplane operator shall compile 2029 CO ₂ emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2030	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2029 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2030 to 31 July 2030	The State shall conduct an order of magnitude check of the verified Emissions Report for 2029 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2030	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2031 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2030	The State shall submit required information regarding CO ₂ emissions for 2029 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
1 August 2030	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2031 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2030	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2029 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2030	The State shall calculate and inform aeroplane operators of their offsetting requirements for 2029, in accordance with Part II, Chapter 3, 3.2. The State shall calculate and inform aeroplane operators of their total final offsetting requirements for the 2027 to 2029 period, in accordance with Part II, Chapter 3, 3.4.4. The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.



<i>Timeline</i>	<i>Activity</i>
31 December 2030	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2031 to 31 December 2031	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2031 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
31 January 2031 or 60 days after the State informs aeroplane operators of their total final offsetting requirements for the 2027- 2029 period, whichever date comes later	The aeroplane operator shall cancel emissions units for compliance during the 2027 to 2029 period in accordance with Part II, Chapter 4, 4.2.
7 February 2031	The aeroplane operator shall request that their cancellation of Eligible Emissions Units for the 2027-2029 period is communicated on the respective Eligible Emissions Units Programme registry (or registries) public website(s) in accordance with Part II, Chapter 4, 4.2.2 b).
1 December 2030 to 30 April 2031	The aeroplane operator shall compile their Emissions Unit Cancellation Report covering the 2027-2029 period to be verified by a verification body, in accordance with Part II, Chapter 4, 4.4.
1 January 2031 to 30 April 2031	The aeroplane operator shall compile 2030 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2031	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2030 to the State in accordance with Part II, Chapter 2, 2.4.1.4. The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Unit Cancellation Report and associated Verification Report for the 2027-2029 period to the State in accordance with Part II, Chapter 4, 4.4.1.4.
1 May 2031 to 31 July 2031	The State shall conduct an order of magnitude check of the verified Emissions Report for 2030 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2. The State shall undertake an order of magnitude check of the verified Emissions Unit Cancellation Report for the 2027-2029 period in accordance with Part II, Chapter 4, 4.4.1.5.
30 June 2031	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2032 in accordance with Part II, Chapter 3, 3.1.3.



<i>Timeline</i>	<i>Activity</i>
31 July 2031	<p>The State shall submit required information regarding CO₂ emissions for 2030 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.</p> <p>The State shall report to ICAO the required information regarding emissions unit cancellation for the 2027-2029 period in accordance with Part II, Chapter 4, 4.3.2.</p>
1 August 2031	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2032 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2031	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2030 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2031	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2030, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>
31 December 2031	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2032 to 31 December 2032	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2032 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2032 to 30 April 2032	<p>The aeroplane operator shall compile 2031 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4.</p> <p>Recommendation.— <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i></p>
30 April 2032	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2031 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2032 to 31 July 2032	The State shall conduct an order of magnitude check of the verified Emissions Report for 2031 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2032	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2033 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2032	The State shall submit required information regarding CO ₂ emissions for 2031 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.



<i>Timeline</i>	<i>Activity</i>
1 August 2032	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2033 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2032	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2031 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2032	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2031, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>
31 December 2032	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>

Note: If the Sector’s Growth Factor (SGF) for 2029 is not available by 31 October 2030 and States are delayed in their ability to inform operators of their total final offsetting requirements for the 2027 to 2029 period, ICAO will publish updated deadlines related to the cancellation of emissions units for compliance during the 2027 to 2029 period, including:

- *no sooner than 90 days after the SGF for 2029 is made available for the aeroplane operator to cancel emissions units for compliance during the 2027 to 2029 period in accordance with Part II, Chapter 4, 4.2;*
- *no sooner than 180 days after the SGF for 2029 is made available for the aeroplane operator and the verification body to both submit the verified Emissions Unit Cancellation Report and associated Verification Report for the 2027-2029 period to the State in accordance with Part II, Chapter 4, 4.4.1.4; and*
- *no sooner than 270 days after the SGF for 2029 is made available for the State to report to ICAO the required information regarding emissions unit cancellation for the 2027-2029 period in accordance with Part II, Chapter 4, 4.3.2.*



2.6 2033-2035 period

2.6.1 During the period of 2033-2035, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

Table A1-6. Details of compliance timeline for 2033-2035 period

<i>Timeline</i>	<i>Activity</i>
1 January 2033 to 31 December 2033	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2033 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2033 to 30 April 2033	The aeroplane operator shall compile 2032 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2033	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2032 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2033 to 31 July 2033	The State shall conduct an order of magnitude check of the verified Emissions Report for 2032 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
30 June 2033	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2034 in accordance with Part II, Chapter 3, 3.1.3.
31 July 2033	The State shall submit required information regarding CO ₂ emissions for 2032 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
1 August 2033	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2034 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2033	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2032 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2033	The State shall calculate and inform aeroplane operators of their offsetting requirements for 2032, in accordance with Part II, Chapter 3, 3.2. The State shall calculate and inform aeroplane operators of their total final offsetting requirements for the 2030 to 2032 period, in accordance with Part II, Chapter 3, 3.4.4. State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.



<i>Timeline</i>	<i>Activity</i>
31 December 2033	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2034 to 31 December 2034	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2034 from international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
31 January 2034 or 60 days after the State informs aeroplane operators of their total final offsetting requirements for the 2030- 2032 period, whichever date comes later	The aeroplane operator shall cancel emissions units for compliance during the 2030 to 2032 period in accordance with Part II, Chapter 4, 4.2.
7 February 2034	The aeroplane operator shall request that their cancellation of Eligible Emissions Units for the 2030-2032 period is communicated on the respective Eligible Emissions Units Programme registry (or registries) public website(s) in accordance with Part II, Chapter 4, 4.2.2 b).
1 December 2033 to 30 April 2034	The aeroplane operator shall compile their Emissions Unit Cancellation Report covering the 2030-2032 period to be verified by a verification body, in accordance with Part II, Chapter 4, 4.4.
1 January 2034 to 30 April 2034	The aeroplane operator shall compile 2033 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2034	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2033 to the State in accordance with Part II, Chapter 2, 2.4.1.4. The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Unit Cancellation Report and associated Verification Report for the 2030-2032 compliance period to the State in accordance with Part II, Chapter 4, 4.4.1.4.
1 May 2034 to 31 July 2034	The State shall conduct an order of magnitude check of the verified Emissions Report for 2033 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2. The State shall undertake an order of magnitude check of the verified Emissions Unit Cancellation Report for the 2030-2032 period in accordance with Part II, Chapter 4, 4.4.1.5.
30 June 2034	The State shall notify ICAO of any change in its decision to voluntarily participate, or to discontinue the voluntary participation in the applicability of Part II, Chapter 3 from 1 January 2035 in accordance with Part II, Chapter 3, 3.1.3.



<i>Timeline</i>	<i>Activity</i>
31 July 2034	<p>The State shall submit required information regarding CO₂ emissions for 2033 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.</p> <p>The State shall report to ICAO the required information regarding emissions unit cancellation for the 2030-2032 period in accordance with Part II, Chapter 4, 4.3.2.</p>
1 August 2034	The State shall obtain and use the ICAO document entitled “CORSIA States for Chapter 3 State Pairs” applicable for the 2035 compliance year in accordance with Part II, Chapter 3, 3.1.1.
31 October 2034	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2033 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.
30 November 2034	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2033, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall submit updates to the list of aeroplane operators that are attributed to it to ICAO in accordance with Part II, Chapter 1, 1.2.7, as well as updates to the list of verification bodies accredited in the State in accordance with Part II, Chapter 1, 1.3.7.</p>

<i>Timeline</i>	<i>Activity</i>
1 December 2034	Recommendation. — <i>The State should obtain and use the ICAO document entitled “CORSIA Aeroplane Operator to State Attributions” summarising a list of aeroplane operators and the State to which they have been attributed in accordance with Part II, Chapter 1, 1.2.3. The document is available on the ICAO CORSIA website.</i>
1 January 2035 to 31 December 2035	The aeroplane operator shall monitor, in accordance with Part II, Chapter 2, 2.2 CO ₂ emissions for 2035 for international flights, as defined in Part II, Chapter 1, 1.1.2 and Part II, Chapter 2, 2.1.
1 January 2035 to 30 April 2035	<p>The aeroplane operator shall compile 2034 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4.</p> <p>Recommendation.— <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i></p>
30 April 2035	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2034 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2035 to 31 July 2035	The State shall conduct an order of magnitude check of the verified Emissions Report for 2034 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
31 July 2035	The State shall submit required information regarding CO ₂ emissions for 2034 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
31 October 2035	The State shall obtain and use the Sector’s Growth Factor (SGF) for 2034 from the ICAO document entitled “CORSIA Annual Sector’s Growth Factor (SGF)” in accordance with Part II, Chapter 3, 3.2.2.



<i>Timeline</i>	<i>Activity</i>
30 November 2035	The State shall calculate and inform aeroplane operators of their offsetting requirements for 2034, in accordance with Part II, Chapter 3, 3.2.

Note: If the Sector's Growth Factor (SGF) for 2032 is not available by 31 October 2033 and States are delayed in their ability to inform operators of their total final offsetting requirements for the 2030 to 2032 period, ICAO will publish updated deadlines related to the cancellation of emissions units for compliance during the 2030 to 2032 period, including:

- no sooner than 90 days after the SGF for 2032 is made available for the aeroplane operator to cancel emissions units for compliance during the 2030 to 2032 period in accordance with Part II, Chapter 4, 4.2;*
- no sooner than 180 days after the SGF for 2032 is made available for the aeroplane operator and the verification body to both submit the verified Emissions Unit Cancellation Report and associated Verification Report for the 2030-2032 period to the State in accordance with Part II, Chapter 4, 4.4.1.4; and*
- no sooner than 270 days after the SGF for 2032 is made available for the State to report to ICAO the required information regarding emissions unit cancellation for the 2030-2032 period in accordance with Part II, Chapter 4, 4.3.2.*

2.6.2 To complete the period of 2033-2035, aeroplane operators and States shall comply with the requirements according to the following timeline, where applicable:

<i>Timeline</i>	<i>Activity</i>
1 January 2036 to 30 April 2036	The aeroplane operator shall compile 2035 emissions data to be verified by a verification body, in accordance with Part II, Chapter 2, 2.4. Recommendation. — <i>The aeroplane operator should submit its Emissions Report for verification as soon as possible after completing its Emissions Report.</i>
30 April 2036	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Report and associated Verification Report for 2035 to the State in accordance with Part II, Chapter 2, 2.4.1.4.
1 May 2036 to 31 July 2036	The State shall conduct an order of magnitude check of the verified Emissions Report for 2035 in accordance with Part II, Chapter 2, 2.4.1.5, including any filling in of data gaps in case of non-reporting by aeroplane operators in accordance with Part II, Chapter 2, 2.5.2.
31 July 2036	The State shall submit required information regarding CO ₂ emissions for 2035 to ICAO in accordance with Part II, Chapter 2, 2.3.2.2.
31 October 2036	The State shall obtain and use the Sector's Growth Factor (SGF) for 2035 from the ICAO document entitled "CORSIA Annual Sector's Growth Factor (SGF)" in accordance with Part II, Chapter 3, 3.2.2.



<i>Timeline</i>	<i>Activity</i>
30 November 2036	<p>The State shall calculate and inform aeroplane operators of their offsetting requirements for 2035, in accordance with Part II, Chapter 3, 3.2.</p> <p>The State shall calculate and inform aeroplane operators of their total final offsetting requirements for the 2033 to 2035 period, in accordance with Part II, Chapter 3, 3.4.4.</p>
31 January 2037 or 60 days after the State informs aeroplane operators of their total final offsetting requirements for the 2033- 2035 period, whichever date comes later	The aeroplane operator shall cancel emissions units for compliance during the 2033-2035 period in accordance with Part II, Chapter 4, 4.2.
7 February 2037	The aeroplane operator shall request that their cancellation of Eligible Emissions Units for the 2033-2035 period is communicated on the respective Eligible Emissions Units Programme registry (or registries) public website(s) in accordance with Part II, Chapter 4, 4.2.2 b).
1 December 2036 to 30 April 2037	The aeroplane operator shall compile their Emissions Unit Cancellation Report covering the 2033-2035 period to be verified by a verification body, in accordance with Part II, Chapter 4, 4.4.
30 April 2037	The aeroplane operator and the verification body shall both independently submit, upon authorization by the aeroplane operator, the verified Emissions Unit Cancellation Report and associated Verification Report for the 2033-2035 compliance period to the State in accordance with Part II, Chapter 4, 4.4.1.4.
1 May 2037 to 31 July 2037	The State shall undertake an order of magnitude check of the verified Emissions Unit Cancellation Report for the 2033-2035 period in accordance with Part II, Chapter 4, 4.4.1.5.
31 July 2037	The State shall report to ICAO the required information regarding emissions unit cancellation for the 2033-2035 period in accordance with Part II, Chapter 4, 4.3.2.

Note: If the Sector's Growth Factor (SGF) for 2035 is not available by 31 October 2036 and States are delayed in their ability to inform operators of their total final offsetting requirements for the 2033 to 2035 period, ICAO will publish updated deadlines related to the cancellation of emissions units for compliance during the 2033 to 2035 period, including:

- no sooner than 90 days after the SGF for 2035 is made available for the aeroplane operator to cancel emissions units for compliance during the 2033 to 2035 period in accordance with Part II, Chapter 4, 4.2;*
- no sooner than 180 days after the SGF for 2035 is made available for the aeroplane operator and the verification body to both submit the verified Emissions Unit Cancellation Report and associated Verification Report for the 2033-2035 period to the State in accordance with Part II, Chapter 4, 4.4.1.4; and*
- no sooner than 270 days after the SGF for 2035 is made available for the State to report to ICAO the required information regarding emissions unit cancellation for the 2033-2035 period in accordance with Part II, Chapter 4, 4.3.2.*