Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

Implementation of CORSIA in the United States

Presented to: CAAFI January Monthly Webinar
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FAA Office of Environment and Energy (AEE)
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U.S. CORSIA Policy and FAA CORSIA MRV Program

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Global Carbon **Offsetting** Scheme

- “Carbon Offsetting and Reduction Scheme for International Aviation” (CORSIA)

**Applies to Aircraft Operators, International Only**

- Exemptions for aircraft ≤ 5,700 kg, operators with ≤ 10,000 metric tons CO2, and humanitarian, medical, firefighting flights

**Offsetting to Help Meet the Carbon Neutral Growth from 2020 Goal**

- Offset the increase in CO2 emissions of international flights between participating countries after 2020, from averaged 2019-2020 baseline
Timeframe for Offset Requirement: 2021-2035

But, Emissions Monitoring, Reporting & Verification (MRV) Began in 2019 and Is Annual

- Emissions monitoring applies to all countries, even those not covered by the offsetting requirement

Demonstration of Compliance with Offset Requirement Every 3 Years

Country-by-Country Implementation, with Certain Reporting to and Determinations by ICAO
Emissions Savings from an Operator’s Purchase of Sustainable Alternative Fuel Reduces Individual Operator Offset Obligations

**CORSIA Is Intended to be in Lieu of Other Measures** Imposed States on International Aviation
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FAA CORSIA MRV Program: Overview

• FAA posted a notice of the “CORSIA Monitoring, Reporting, and Verification Program” on its website [https://www.faa.gov/about/office_org/headquarters_offices/apl/research/environmental_policy](https://www.faa.gov/about/office_org/headquarters_offices/apl/research/environmental_policy)

• Program implements the provisions of the ICAO CORSIA, and in particular the monitoring, reporting and verification requirements for 2019 & 2020.

• Under this voluntary program, U.S. air carriers, commercial, and general aviation operators can choose to undertake monitoring, reporting, and verification (“MRV”) of CO₂ emissions for international flights for the years 2019 and 2020.
FAA CORSIA MRV Program: Overview

The FAA CORSIA MRV Program implements Annex 16, Volume IV and applies for 2019 and 2020

Includes:
- Scope of Applicability
- Exclusions
- Monitoring
- Reporting
- Verification

Does Not Include:
- Offsetting
- Alternative Fuels

To be effective, the program requires a “critical mass” of operators – in this case, a number of operators who combined represent 90% of total international fuel consumption based on 2017 data.
**CORSIA Information Flows**
*(from Annex 16 Volume IV)*

**ICAO**
- ICAO CORSIA Central Registry (CCR)

**Member State**
- **i.e., FAA**
  - List of Airplane Operators
  - Emissions Monitoring Plans Approval
  - Emissions Report (State to ICAO)
  - Emissions Monitoring Plans (AOs)
  - Fuel Data
  - Emissions Report (AO to State)
  - CO₂ Estimation and Reporting Tool (CERT)
  - Emissions Units Cancellation Process
  - Registry
  - EUCR Recording

**Airplane Operators (AOs)**
- Operators Information
- Emissions Monitoring Plans
- Fuel Data
- Emissions Report (AO to State)
- Emissions Units Cancellation Report (AO to State)
- Emissions Unit Cancellation Report (AO to State)

**FAA CORSIA MRV Program (2019-2020)**
Emissions Report (ER)

• Report developed by the airplane operator, verified by a third-party verifier, and submitted to the State (country).

• The ER will be submitted on an annual basis starting in 2020 for emissions generated in 2019.

• Emissions reported in 2019 and 2020* will determine the baseline emissions for CORSIA (average of 2019-2020 emissions).

• Starting in 2021, the ER will be accompanied by Supplementary Information on CORSIA Eligible Fuels.
Background: Status of Participation and Submission of Emission Monitoring Plans (EMPs)

- As of July 2020 the FAA CORSIA MRV Program covered;

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<tbody>
<tr>
<td><strong>139</strong></td>
<td><strong>31</strong></td>
<td><strong>30</strong></td>
<td><strong>97.9%</strong></td>
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<td>Submissions to FAA including; Assessments, EMPs, or Signatory Forms.</td>
<td>Participants who have submitted a Monitoring Plan and/or a signatory letter and are expected to be within the scope of applicability of CORSIA.</td>
<td>Emissions Monitoring Plan reviewed and approved.</td>
<td>Of international fuel burn in 2018 (based on BTS T2 data).</td>
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Questions? Email us: [9-AWA-CORSIA@faa.gov](mailto:9-AWA-CORSIA@faa.gov)
United States Emissions Report 2019

Legend:

CO₂ Emissions for given State-pair

1 tCO₂  4.2 MtCO₂

Note. – Color based on log scale

50 Aeroplane Operators

1760 State-pairs

1.0 million international flights

67.3 MtCO₂ from international aviation in 2019
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The FAA Office of Environment and Energy (AEE) is responsible for administering the FAA CORSIA MRV Program.

For general questions regarding the CORSIA MRV Program, contact: Dan Williams, (202) 267-7988, 9-AWA-CORSIA@faa.gov
Additional Information and Resources

• FAA CORSIA website
  • U.S. CORSIA MRV Program Statement (PDF)
  • Attachment 1 – U.S. CORSIA Program Signatory Form (PDF)
  • Attachment 2 – U.S. CORSIA EMP Template (MS Excel)
  • Attachment 3 – U.S. CORSIA ER Template (MS Excel)
  available at: https://www.faa.gov/about/office_org/headquarters_offices/apl/research/environmental_policy/

• International Civil Aviation Organization (ICAO) CORSIA resources
  • CORSIA Standards and Recommended Practices (SARPs)
  • CORSIA Environmental Technical Manual (ETM)
  • ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)
  available at: https://www.icao.int/corsia

• International Air Transport Association (IATA) CORSIA resources
  available at: https://www.iata.org/policy/environment/Pages/corsia.aspx
Questions?