US FAA CORSIA MRV I

EMISSIONS REPORT (ER)

CONTENTS

Template Information

Template provided by:	**U.S. Federal Aviation Administration** in support of the US FAA CORSIA MRV F
Version (publication date):	**2019-10-01**

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

Program

Program

IV, Part II, Chapter 1,

1 AEROPLANE OPERATOR IDENTIFICATION AND DESCRIPTION OF ACTIVITIES

a) Name of aeroplane operator

Please enter the name of the aeroplane operator. This name should be the legal entity carrying out the aviation activities.

a1) Address of the aeroplane operator

Please enter the address of the aeroplane operator.

Address:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

a2) Contact person

Please enter the contact information of the person within the aeroplane operator who is responsible for the Emissions Report.

Title:	
First name:	
Surname:	
Email address:	
Telephone number:	
Address line 1:	
Address line 2:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

a3) Alternate contact person

Please enter the contact information of an additional person within the aeroplane operator who is responsible for the Emissions Report.

Title:	
First name:	
Surname:	
Email address:	
Telephone number:	
Address line 1:	
Address line 2:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

a4) Legal representative

Please enter a contact address of a representative who is legally resonsible for the aeroplane operator for official correspondence.

Title:	
First name:	
Surname:	
Email address:	
Telephone number:	
Address line 1:	
Address line 2:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

b) Aircraft Identification of the aeroplane operator for international flights (Item 7 of the flight plan)

Select the options used for reporting flight attribution to the aeroplane operator.

ICAO Designator
*Does Item 7 (aircraft identification) of the flight plan begin with an **ICAO Designator** according to Doc 8585 — Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services? If yes, please select "ICAO Designator" from the drop down list and complete b1).*

Registration marks
*Does Item 7 (aircraft identification) of the flight plan correspond to the **nationality or common mark, and registration mark**, as explicitly stated in an **AOC** (or equivalent)? If yes, please select "Registration marks" from the drop down list.*

ICAO Designator and registration marks

Responsibility under the CORSIA

b1) ICAO Designator

Provide the ICAO Designator (or Designators) used for Air Traffic Control purposes, as listed in Doc 8585 — Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services, if the aeroplane operator has an ICAO Designator(s).

b2) Additional information on flight attribution

If during the monitoring period an additional attribution approach has been used to that identified in section b) and as explained in the EMP, please provide detailed information on the attribution process.

c) Verification body

Contact information of the engaged accredited verification body.

Verification body:	
Title:	
First name of verifier:	
Surname of verifier:	
Email address:	
Telephone number:	
Address line 1:	
Address line 2:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

c1) Accreditation details

Please provide information regarding the national accreditation body.

Authorization based on:	
Body / Authority:	
Number:	
Country:	

2 UNDERLYING BASIC INFORMATION OF THE EMISSIONS REPORT

a) Reporting year

Please provide the reporting year.

b) End of reporting period

Usually the last day of the reporting year, as long as the operator has not ceased flight operations during the reporting year. Use the format yyyy-mm-dd.

c) Date of issue

Date on which the Emissions Report was compiled. Use the format yyyy-mm-dd.

d) Version

In case of multiple submissions, please enter the Emissions Report version number.

e) Current Emissions Monitoring Plan

Please enter the version number of the approved Emissions Monitoring Plan on which this Emissions Report is based.

e1) Approval of the current Emissions Monitoring Plan

Please enter the date of the approval of the Emissions Monitoring Plan. Use the format yyyy-mm-dd.

e2) Emissions Monitoring Plan is valid from

Please enter the date of validity of the current Emissions Monitoring Plan. Use the format yyyy-mm-dd.

e3) Last update of the Emissions Monitoring Plan

Please enter the date of the Emissions Monitoring Plan on which basis this report was created. Use the format yyyy-mm-dd.

e4) Was more than one approved Emissions Monitoring Plan version used during the reporting year?

Please choose "yes" if the Emissions Report is based on more than one Emissions Monitoring Plan.

e4.1) Explanation

Please explain in detail the implications of the use of several Emissions Monitoring Plans during the reporting year.

e5) Previous Emissions Monitoring Plan (if applicable)

Please list the previous Emissions Monitoring Plan version with version number and date of approval (if applicable).

f) Fuel Use Monitoring Method and / or the ICAO CORSIA CO$_2$ Estimation and Reporting Tool (CERT)

Please indicate whether the aeroplane operator used the ICAO CORSIA CO$_2$ Estimation and Reporting Tool (CERT) and whether the tool was used for all international flights or only for international flights not subject to offsetting requirements.

g) Fuel Allocation with Block Hour

Please indicate whether the aeroplane operator used the Fuel Use Monitoring Method "Fuel Allocation with Block Hour" during the reporting year.

g1) Underlying aeroplane fuel burn

Please complete the table below with the average fuel burn ratio (AFBR) for each aeroplane type as specified in Doc 8643 — Aircraft Type Designators. AFBR will be provided in tonnes per hour (rounded to at least three decimal places) for the current reporting year.

Additional information about Doc 8643 — Aircraft Type Designators can be found at: http://www.icao.int/publications/DOC8643/Pages/Search.aspx

No.	ICAO aircraft type designator	Specific fuel burn (in tonnes per hour)
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3 AEROPLANE FLEET AND FUEL TYPES

a) Registration of all aeroplanes operated in the reporting year

Please list all aeroplanes with an MTOM greater than 5 700 kg (12 566 lbs) operated on international flights, as defined in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 2, 2.1, during the reporting period. If necessary, please attach a separate list.
Please enter the ICAO aircraft type designator, as specified in Doc 8643 — Aircraft Type Designators, the registration marks and state whether the aeroplane is owned or leased. Please mark with an "X" applicable fuel(s) type(s) for each ICAO aircraft type designator(*).

Additional information about Doc 8643 — Aircraft Type Designators can be found at:

http://www.icao.int/publications/DOC8643/Pages/Search.aspx

(*) For the purposes of this template, the fuel total could include the sum of equivalent fuels.

No.	ICAO aircraft type designators	Registration marks	Owned or leased	Fuel used (*)			
				Jet-A	Jet-A1	Jet-B	AvGas
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4 FUEL DENSITY

a) Fuel density

Please specify whether standard and / or actual density was used to determine the fuel uplift in the reporting year.

a1) Consistency

Please confirm that the application of density data for CORSIA purposes is fully identical to the actual procedures used for operational and safety reasons.

5 REPORTING

a) Aggregation level of reported data

*Please select whether the aeroplane operator reports on a State pair or at an aerodrome pair level as advised by the State. If State pair level is chosen, please continue with **"5.1 Reporting - State pairs"**. If aerodrome pair level is selected, please continue with **"5.2 Reporting - Aerodrome pairs"**.*

5.1 REPORTING - STATE PAIRS

Explanation: *Please complete the list underneath. <u>All</u> State pairs operated during the reporting year have to be reported.*

Note I: *Please report both directions between State pairs if applicable (A-B and B-A).*
Note II: *If you used different type of fuels on the same State pair with different fuel converstion factors, you need to create an identical State pair and report this portion of fuel separately. Please note, emissions from CORSIA eligible fuels are calculated with the fuel conversion factor(s) from corresponding aviation fuels.*
Note III: *Please also complete the CORSIA eligible fuels supplementary information to the Emissions Report, if CORSIA eligible fuels were used during the reporting period.*

a) Summary of reported international flights and emissions

Total CO$_2$ emissions from international flights (in tonnes):	
Total CO$_2$ emissions from flights subject to offsetting requirements (in tonnes):	
Total number of international flights during reporting period:	
Total number of international flights subject to offsetting requirements:	
Total emissions reductions claimed from the use of CORSIA eligible fuels (in tonnes):	

b) Summary of fuel quantities(*) (in tonnes):
(*) For the purposes of this template, the fuel total could include the sum of equivalent fuels.

Jet-A	
Jet-A1	
Jet-B	
AvGas	

b1) CORSIA eligible fuels claimed

If claiming emission reductions from the use of CORSIA eligible fuels, please complete the table below. Supplementary information about the claim is also required, and can be reported using the CORSIA eligible fuels supplementary information template.

(*) For the purposes of this template, the fuel total could include the sum of equivalent fuels.

Fuel type			Total mass of the neat CORSIA eligible fuel (in tonnes)	Approved Life Cycle Emissions values	Emission reductions claimed
Fuel type (e.g. Jet-A) (*)	Feedstock	Conversion process			
Total emission reductions from the use of CORSIA eligible fuel(s) claimed					

c) Table of all State pairs

Please list all State pairs on which international flights were performed and enter the number of flights and the amount of CO_2 emissions.

(*) For the purposes of this template, the fuel total could include the sum of equivalent fuels.

State of departure	State of arrival	CO_2 emissions estimated with CERT?	Total No. of flights	Fuel type(*)	Total mass of fuel (in tonnes)	Fuel conversion factors	Total CO_2 emissions (in tonnes)	Subject to offsetting requirements?

5.2 REPORTING - AERODROME PAIRS

Explanation: Please complete the list underneath. <u>All</u> aerodrome pairs that were operated during the reporting year have to be reported.

Note I: Please report both directions between aerodrome pairs if applicable (A-B and B-A).
Note II: If you used different type of fuels on the same aerodrome pair with different fuel conversion factors, you need to create an identical aerodrome pair and report this portion of fuel separately. Please note, emissions from CORSIA eligible fuels are calculated with the fuel conversion factor(s) from corresponding aviation fuels.
Note III: Please also complete the CORSIA eligible fuels supplementary information to the Emissions Report, if CORSIA eligible fuels were used during the reporting period.

a) Summary of reported international flights and emissions

Total CO_2 emissions from international flights (in tonnes):	
Total CO_2 emissions from flights subject to offsetting requirements (in tonnes):	
Total number of international flights during reporting period:	
Total number of international flights subject to offsetting requirements:	
Total emissions reductions claimed from the use of CORSIA eligible fuels (in tonnes):	

b) Summary of fuel quantities[*] (in tonnes):
[*] For the purposes of this template, the fuel total could include the sum of equivalent fuels.

Jet-A	
Jet-A1	
Jet-B	
AvGas	

b1) CORSIA eligible fuels claimed

If claiming emission reductions from the use of CORSIA eligible fuels, please complete the table below. Supplementary information about the claim is also required, and can be reported using the CORSIA eligible fuels supplementary information template.
(*) For the purposes of this template, the fuel total could include the sum of equivalent fuels.

Fuel type			Total mass of the neat CORSIA eligible fuel (in tonnes)	Approved Life Cycle Emissions values	Emission reductions claimed
Fuel type (e.g. Jet-A) (*)	Feedstock	Conversion process			
Total emission reductions from the use of CORSIA eligible fuel(s) claimed					

c) Table of all aerodrome pairs

Please list all aerodrome pairs on which international flights were performed and enter the number of flights and the amount of CO_2 emissions.

(*) For the purposes of this template, the fuel total could include the sum of equivalent fuels.

Departure		Arrival		CO_2 emissions estimated with CERT?	Total No. of flights	Fuel type (*)	Total amount of fuel used (in tonnes)	Fuel conversion factors	CO_2 emissions (in tonnes)	Subject to offsetting requirements?
ICAO airport code	State	ICAO airport code	State							

6 DATA GAPS

Explanation: *"Data gaps" occur when an aeroplane operator is missing data which is relevant for the determination of its fuel use for one or more international flights in accordance with Annex 16, Volume IV, Part II, Chapter 2, 2.2.1.1.*

a) Did any data gaps occur during the reporting year?

b) Is the threshold of 5 per cent for data gaps exceeded?

In 2019 and 2020, 5 per cent refers to international flights, as defined in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 2, 2.1.
From 2021 onwards, 5 per cent refers to international flights subject to offsetting requirements, as defined in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 3, 3.1.

The aeroplane operator using a Fuel Use Monitoring Method shall fill data gaps using the ICAO CORSIA CERT, provided that the data gaps during a compliance period do not exceed the thresholds described above.
*Estimated emissions should then appear in spreadsheet **5.1 Reporting - State Pairs** as separate State pairs (if reporting is done at State pair level) or in spreadsheet **5.2 Reporting - Aerodrome Pairs** as separate aerodrome pairs (if reporting is done at aerodrome pair level).*

b1) Per cent of data gaps
Please enter per cent of data gaps (according to criteria defined in Part II, Chapter 2, 2.5.1 and rounded to the nearest 0.1 per cent)

b2) List of data gaps if the 5 per cent threshold has been exceeded in the reporting year

Please complete the list underneath if the threshold has been exceeded.

No.	Reference *(Describe the data gap, either by referencing the aeroplane, aerodrome, flight number, etc. for which the data gap occurred and/or the start and end date of the period where the data gap occured.)*	Cause *(Please describe the cause why the data gap ocurred.)*	Type *(Describe the type of data gap, such as "density measurement not available", "fuel uplift not available", etc.)*	Replacement method *(Describe the method of determining alternative data, such as referencing the procedure in your Emissions Monitoring Plan, "by ... Tool", etc.)*	CO$_2$ emissions (in tonnes) *(Provide the amount of CO$_2$ emissions which are effected by the data gap).*	Remarks
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