
STATUTORY INSTRUMENTS

2022 No. 1050

The Air Navigation (Carbon Offsetting and Reduction Scheme for International Aviation) (Amendment) Order 2022

Insertion of Part 3A

22. After article 41 (electronic data exchange and use of automated systems) insert—

“PART 3A

CO₂ offsetting requirements from international flights and emissions reductions from the use of CORSIA eligible fuels

CHAPTER 1

Offsetting

Applicability of CO₂ offsetting requirements

41A.—(1) For the period of 1st January 2021 to 31st December 2021, the offsetting requirements of this Part apply to an aeroplane operator with international flights between States as defined in the ICAO document entitled “CORSIA States for Chapter 3 State Pairs”⁽¹⁾.

(2) This Part does not apply to a new entrant aeroplane operator for three years starting in the year when it meets the requirements in articles 21(1), or until its annual CO₂ emissions exceed 0.1 per cent of total CO₂ emissions from international flights in 2020, whichever occurs earlier.

(3) The Regulator must calculate the aeroplane operator’s annual offsetting requirements based on the data reported in accordance with Part 3, the applicability requirements in this article, and the application of articles 41B and 41C.

CO₂ offsetting requirements

41B.—(1) The Regulator must calculate, for each of the aeroplane operators administered by it, the amount of CO₂ emissions required to be offset for the period from 1st January 2021 to 31st December 2021 prior to consideration of the CORSIA eligible fuels, as follows—

$$OR_y = OE * SGF_y$$

where—

(1) “CORSIA States for Chapter 3 State Pairs” is available from the ICAO website at www.icao.int. For a hard copy contact the ICAO E-Commerce and Publications Sales Unit at International Civil Aviation Organisation (ICAO), 999 Robert-Bourassa Boulevard, Montreal, Quebec H3C 5H7, Canada (telephone +1 514-954-8219 and e-mail sales@icao.int).

OR_y = Aeroplane operator's offsetting requirements in the given year y,

OE = Aeroplane operator's CO₂ emissions calculated in accordance with article 41A(3) in the given year y, and

SGF_y = Sector's Growth Factor(2) for the given year y.

(2) The Regulator must, upon calculating the offsetting requirements in a given year (OR_y) of each of the aeroplane operators administered by it for the purposes of this Order, inform the aeroplane operator of its offsetting requirements by notice according to the timeline set out in Schedule 1.

Emissions reductions from the use of CORSIA eligible fuels

41C.—(1) An aeroplane operator that intends to claim for emissions reductions from the use of CORSIA eligible fuels in a given year must compute those emissions reductions as follows—

$$ER_y = FCF * \left[\sum_f MS_{f,y} * \left(1 - \frac{LS_f}{LC} \right) \right] \quad (3)$$

where—

ER_y = Emissions reductions from the use of CORSIA eligible fuels in the given year y, in tonnes,

FCF = Fuel conversion factor,

MS_{f,y} = Total mass of a neat CORSIA eligible fuel claimed in the given year y, in tonnes, as described in and required by Field 12(b) in Table 1 of Schedule 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 95 gCO₂e/MJ for AvGas.

(2) The fuel conversion factor referred to in paragraph (1) is equal to—

(a) 3.16 (in kg CO₂/kg fuel) for Jet-A fuel/Jet A1 fuel,

(b) 3.10 (in kg CO₂/kg fuel) for AvGas, or

(c) 3.10 (in kg CO₂/kg fuel) for Jet-B fuel.

(3) If a default life cycle emissions value is used, the aeroplane operator must use the ICAO document entitled “CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels”(4) for the calculation in paragraph (1).

(2) The Sector's Growth Factor applicable for a given year (SGF_y) is provided in the ICAO document entitled “CORSIA Annual Sector's Growth Factor (SGF)” that is available from the ICAO CORSIA website, and is calculated as (SE_y-SE_{B,y})/SE_y, where SE_y = Total sectoral CO₂ emissions covered by article 41A in the given year y and SE_{B,y} = Average of total sectoral CO₂ emissions during 2019 and 2020 covered by article 41A in the given year y. Sectoral emissions in a given year (SE_y) do not include the CO₂ emissions from new entrants during their exception period, as defined in article 41A(2) and (3). As the States which form the “CORSIA States for Chapter 3 State Pairs”, as defined by article 41A, change over time, the average of total sectoral CO₂ emissions during 2019 and 2020 covered by these State pairs in the given year y (SE_{B,y}) will be recalculated.

(3) The ratio (1-LS_f/LC) is also referred to as the emissions reduction factor (ERF_f) of a CORSIA eligible fuel.

(4) “CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels” is available from the ICAO website at www.icao.int. For a hard copy contact the ICAO E-Commerce and Publications Sales Unit at International Civil Aviation Organisation (ICAO), 999 Robert-Bourassa Boulevard, Montreal, Quebec H3C 5H7, Canada (telephone +1 514-954-8219 and e-mail sales@icao.int).

(4) If an actual life cycle emissions value is used an approved Sustainability Certification Scheme must ensure that the methodology set out in the ICAO document entitled “CORSIA Methodology for Calculating Actual Life Cycle Emissions Values”(5) has been applied correctly.”.

(5) “CORSIA Methodology for Calculating Actual Life Cycle Emissions Values” is available from the ICAO website at www.icao.int. For a hard copy contact the ICAO E-Commerce and Publications Sales Unit at International Civil Aviation Organisation (ICAO), 999 Robert-Bourassa Boulevard, Montreal, Quebec H3C 5H7, Canada (telephone +1 514-954-8219 and e-mail sales@icao.int).