Changes to legislation: There are outstanding changes not yet made to Commission Implementing Regulation (EU) 2018/2066. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

ANNEX III

Monitoring methodologies for aviation (Article 53 and Article 57)

1. CALCULATION METHODOLOGIES FOR THE DETERMINATION OF GHGS IN THE AVIATION SECTOR

Method A:

The operator shall use the following formula:

Actual fuel consumption for each flight [t] = Amount of fuel contained in aircraft tanks once fuel uplift for the flight is complete [t] – Amount of fuel contained in aircraft tanks once fuel uplift for subsequent flight is complete [t] + Fuel uplift for that subsequent flight [t]

Where there is no fuel uplift for the flight or subsequent flight, the amount of fuel contained in aircraft tanks shall be determined at block-off for the flight or subsequent flight. In the exceptional case that an aircraft performs activities other than a flight, including undergoing major maintenance involving the emptying of the tanks, after the flight for which fuel consumption is being monitored, the aircraft operator may substitute the quantity 'Amount of fuel contained in aircraft tanks once fuel uplift for subsequent flight is complete + Fuel uplift for that subsequent flight' with the 'Amount of fuel remaining in tanks at the start of the subsequent activity of the aircraft', as recorded by technical logs.

Method B:

The operator shall use the following formula:

Actual fuel consumption for each flight [t] = Amount of fuel remaining in aircraft tanks at blockon at the end of the previous flight [t] + Fuel uplift for the flight [t] - Amount of fuel contained in tanks at block-on at the end of the flight [t]

The moment of block-on may be considered equivalent to the moment of engine shut down. Where an aircraft does not perform a flight previous to the flight for which fuel consumption is being monitored, the aircraft operator may substitute the quantity 'Amount of fuel remaining in aircraft tanks at block-on at the end of the previous flight' with the 'Amount of fuel remaining in aircraft tanks at the end of the previous activity of the aircraft', as recorded by technical logs.

2. EMISSION FACTORS FOR STANDARD FUELS

TABLE 1

FuelEmission factor (t CO2/t fuel)Aviation gasoline (AvGas)3,10Jet gasoline (Jet B)3,10Jet kerosene (Jet A1 or Jet A)3,15

Aviation fuel CO₂ emission factors

3. CALCULATION OF GREAT CIRCLE DISTANCE

Distance [km] = Great Circle Distance [km] + 95 km

The Great Circle Distance shall be the shortest distance between any two points on the surface of the Earth, which shall be approximated using the system referred to in Article 3.7.1.1 of Annex 15 to the Chicago Convention (WGS 84).

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The latitude and longitude of aerodromes shall be taken either from aerodrome location data published in Aeronautical Information Publications (AIP) in compliance with Annex 15 to the Chicago Convention or from a source using AIP data.

Distances calculated by software or by a third party may also be used, provided that the calculation methodology is based on the formula set out in this section, AIP data and WGS 84 requirements.

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	Cha	nges and effects yet to be applied to :
	-	Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by S.I. 2020/1557 art. 35(3)-(8)
	-	Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by S.I. 2021/1455 art. 22(2)-(9)
	_	Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by S.I. 2022/1173 art. 13
	_	Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 4 by S.I. 2023/850 art. 8(2)
	_	Regulation amendment to earlier affecting provision S.I. 2020/1265, Sch. 7 para. 13 by S.I. 2022/1173 art. 17(3)
	_	Regulation modified by S.I. 2020/1265 art. 24Sch. 4
	_	Regulation modified by S.I. 2020/1265 Sch. 7 para. 13
	-	Regulation modified by 2019 c. 1, s. 77(4) (as substituted) by 2020 c. 14 Sch. 12 para. 7(3)
	_	Regulation power to amend conferred by 2019 c. 1, ss. 76, 77 (as amended) by 2020 c. 14 Sch. 12 para. $4(4)(b)(i)7(2)(b)$
	-	Regulation power to amend conferred by 2019 c. 1, ss. 76, 77 (as amended) by 2020 c. 14 Sch. 12 para. 5(b)7(2)(b)
	_	Regulation restricted by S.I. 2020/1265 Sch. 8 para. 5(3)
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