

Commission Implementing Regulation (EU) 2019/947 of 24 May 2019 on the rules and procedures for the operation of unmanned aircraft (Text with EEA relevance)

Article 1

Subject matter

This Regulation lays down detailed provisions for the operation of unmanned aircraft systems as well as for personnel, including remote pilots and organisations involved in those operations.

Article 2

Definitions

For the purposes of this Regulation, the definitions in Regulation (EU) 2018/1139 apply.

The following definitions also apply:

- (1) ‘unmanned aircraft system’ (‘UAS’) means an unmanned aircraft and the equipment to control it remotely;
- (2) ‘unmanned aircraft system operator’ (‘UAS operator’) means any legal or natural person operating or intending to operate one or more UAS;
- (3) ‘assemblies of people’ means gatherings where persons are unable to move away due to the density of the people present;
- (4) ‘UAS geographical zone’ means a portion of airspace established by the [^{F1}Secretary of State] that facilitates, restricts or excludes UAS operations in order to address risks pertaining to safety, privacy, protection of personal data, security or the environment, arising from UAS operations;
- (5) ‘robustness’ means the property of mitigation measures resulting from combining the safety gain provided by the mitigation measures and the level of assurance and integrity that the safety gain has been achieved;
- (6) ^{F2}
- (7) ‘visual line of sight operation’ (‘VLOS’) means a type of UAS operation in which, the remote pilot is able to maintain continuous unaided visual contact with the unmanned aircraft, allowing the remote pilot to control the flight path of the unmanned aircraft in relation to other aircraft, people and obstacles for the purpose of avoiding collisions;
- (8) ‘beyond visual line of sight operation’ (‘BVLOS’) means a type of UAS operation which is not conducted in VLOS;
- (9) ‘light UAS operator certificate’ (‘LUC’) means a certificate issued to a UAS operator by [^{F3}the CAA] as set out in part C of the Annex;
- (10) ‘model aircraft club or association’ means an organisation legally established in [^{F4}the United Kingdom] for the purpose of conducting leisure flights, air displays, sporting activities or competition activities using UAS;

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- (11) ‘dangerous goods’ means articles or substances, which are capable of posing a hazard to health, safety, property or the environment in the case of an incident or accident, that the unmanned aircraft is carrying as its payload, including in particular:
- (a) explosives (mass explosion hazard, blast projection hazard, minor blast hazard, major fire hazard, blasting agents, extremely insensitive explosives);
 - (b) gases (flammable gas, non-flammable gas, poisonous gas, oxygen, inhalation hazard);
 - (c) flammable liquids (flammable liquids; combustible, fuel oil, gasoline);
 - (d) flammable solids (flammable solids, spontaneously combustible solids, dangerous when wet);
 - (e) oxidising agents and organic peroxides;
 - (f) toxic and infectious substances (poison, biohazard);
 - (g) radioactive substances;
 - (h) corrosive substances;
- (12) ‘payload’ means instrument, mechanism, equipment, part, apparatus, appurtenance, or accessory, including communications equipment, that is installed in or attached to the aircraft and is not used or intended to be used in operating or controlling an aircraft in flight, and is not part of an airframe, engine, or propeller;
- (13) ‘direct remote identification’ means a system that ensures the local broadcast of information about a unmanned aircraft in operation, including the marking of the unmanned aircraft, so that this information can be obtained without physical access to the unmanned aircraft;
- (14) ‘follow-me mode’ means a mode of operation of a UAS where the unmanned aircraft constantly follows the remote pilot within a predetermined radius;
- (15) ‘geo-awareness’ means a function that, based on the data provided by [^{F5}the CAA], detects a potential breach of airspace limitations and alerts the remote pilots so that they can take immediate and effective action to prevent that breach;
- (16) ‘privately built UAS’ means a UAS assembled or manufactured for the builder's own use, not including UAS assembled from sets of parts placed on the market as a single ready-to-assemble kit;
- (17) ‘autonomous operation’ means an operation during which an unmanned aircraft operates without the remote pilot being able to intervene;
- (18) ‘uninvolved persons’ means persons who are not participating in the UAS operation or who are not aware of the instructions and safety precautions given by the UAS operator;
- (19) ‘making available on the market’ means any supply of a product for distribution, consumption or use on the ^{F6}... market in the course of a commercial activity, whether in exchange of payment or free of charge;
- (20) ^{F7}
- (21) ‘controlled ground area’ means the ground area where the UAS is operated and within which the UAS operator can ensure that only involved persons are present;

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- (22) ‘maximum take-off mass’ (‘MTOM’) means the maximum Unmanned Aircraft mass, including payload and fuel, as defined by the manufacturer or the builder, at which the Unmanned Aircraft can be operated;
- (23) ‘unmanned sailplane’ means an unmanned aircraft that is supported in flight by the dynamic reaction of the air against its fixed lifting surfaces, the free flight of which does not depend on an engine. It may be equipped with an engine to be used in case of emergency^[F8];
- (24) ^[F9]‘unmanned aircraft observer’ means a person, positioned alongside the remote pilot, who, by unaided visual observation of the unmanned aircraft, assists the remote pilot in keeping the unmanned aircraft in VLOS and safely conducting the flight;
- (25) ‘airspace observer’ means a person who assists the remote pilot by performing unaided visual scanning of the airspace in which the unmanned aircraft is operating for any potential hazard in the air;
- (26) ‘command unit’ (‘CU’) means the equipment or system of equipment to control unmanned aircraft remotely as defined in point 32 of Article 3 of Regulation (EU) 2018/1139 which supports the control or the monitoring of the unmanned aircraft during any phase of flight, with the exception of any infrastructure supporting the command and control (C2) link service;
- (27) ‘C2 link service’ means a communication service supplied by a third party, providing command and control between the unmanned aircraft and the CU;
- (28) ^{F10}
- (29) ^{F11}
- (30) ^{F12}
- (31) ^{F13}
- (32) ^{F14}
- (33) ^{F15}
- (34) ‘night’ means the hours between the end of evening civil twilight and the beginning of morning civil twilight as defined in Implementing Regulation (EU) No 923/2012^[F16];
- (35) ‘CAA’ means the Civil Aviation Authority].

Textual Amendments

- F1** Words in Art. 2(4) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **59(2)**
- F2** Art. 2(6) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **59(3)**
- F3** Words in Art. 2(9) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **59(4)**
- F4** Words in Art. 2(10) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **59(5)**
- F5** Words in Art. 2(15) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **59(6)**

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- F6** Word in Art. 2(19) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(7)**
- F7** Art. 2(20) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F8** Substituted by Commission Implementing Regulation (EU) 2020/639 of 12 May 2020 amending Implementing Regulation (EU) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight (Text with EEA relevance).
- F9** Inserted by Commission Implementing Regulation (EU) 2020/639 of 12 May 2020 amending Implementing Regulation (EU) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight (Text with EEA relevance).
- F10** Art. 2(28) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F11** Art. 2(29) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F12** Art. 2(30) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F13** Art. 2(31) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F14** Art. 2(32) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F15** Art. 2(33) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(8)**
- F16** Art. 2(35) inserted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **59(9)**

Article 3

Categories of UAS operations

UAS operations shall be performed in the ‘open’, ‘specific’ or ‘certified’ category defined respectively in Articles 4, 5 and 6, subject to the following conditions:

- (a) UAS operations in the ‘open’ category shall not be subject to any prior operational authorisation ^{F17}... before the operation takes place;
- (b) UAS operations in the ‘specific’ category shall require an operational authorisation issued by the [^{F18}CAA] pursuant to Article 12 or an authorisation received in accordance with Article 16 ^{F19}... ;
- (c) UAS operations in the ‘certified’ category shall require the certification of the UAS pursuant to Delegated Regulation (EU) 2019/945 and the certification of the operator and, where applicable, the licensing of the remote pilot.

Textual Amendments

- F17** Words in Art. 3(a) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **60(2)**
- F18** Word in Art. 3(b) substituted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **60(3)(a)**
- F19** Words in Art. 3(b) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **60(3)(b)**

Article 4

‘Open’ category of UAS operations

1 Operations shall be classified as UAS operations in the ‘open’ category only where the following requirements are met:

- a the UAS belongs to one of the classes set out in Delegated Regulation (EU) 2019/945 or is privately built or meets the conditions defined in Article 20;
- b the unmanned aircraft has a maximum take-off mass of less than 25 kg;
- c the remote pilot ensures that the unmanned aircraft is kept at a safe distance from people and that it is not flown over assemblies of people;
- d the remote pilot keeps the unmanned aircraft in VLOS at all times except when flying in follow-me mode or when using an unmanned aircraft observer as specified in Part A of the Annex;
- e during flight, the unmanned aircraft is maintained within 120 metres from the closest point of the surface of the earth, except when overflying an obstacle, as specified in Part A of the Annex
- f during flight, the unmanned aircraft does not carry dangerous goods and does not drop any material;

2 UAS operations in the ‘open’ category shall be divided in three sub-categories in accordance with the requirements set out in Part A of the Annex.

Article 5

‘Specific’ category of UAS operations

1 Where one of the requirements laid down in Article 4 or in Part A of the Annex is not met, a UAS operator shall be required to obtain an operational authorisation pursuant to Article 12 from the [F20CAA].

2 When applying to [F21the CAA] for an operational authorisation pursuant Article 12, the operator shall perform a risk assessment in accordance with Article 11 and submit it together with the application, including adequate mitigating measures.

3 In accordance with point UAS.SPEC.040 laid down in Part B of the Annex, the [F22CAA] shall issue an operational authorisation, if it considers that the operational risks are adequately mitigated in accordance with Article 12.

- 4 The [F23CAA] shall specify whether the operational authorisation concerns:
- a the approval of a single operation or a number of operations specified in time or location(s) or both. The operational authorisation shall include the associated precise list of mitigating measures;
 - b the approval of an LUC, in accordance with part C of the Annex.

[F85 Where the UAS operator submits a declaration to the competent authority of the Member State of registration in accordance with point UAS.SPEC.020 laid down in Part B of the Annex for an operation complying with a standard scenario set out in Appendix 1 to that Annex, the UAS operator shall not be required to obtain an operational authorisation in accordance with paragraphs 1 to 4 of this Article and the procedure laid down in paragraph 5 of Article 12 shall apply. The UAS operator shall use the declaration referred to in Appendix 2 to that Annex.]

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- 6 An operational authorisation ^{F24}... shall not be required for:
- a UAS operators holding an LUC with appropriate privileges in accordance with point UAS.LUC.060 of the Annex;
 - b operations conducted in the framework of model aircraft clubs and associations that have received an authorisation in accordance with Article 16.

Textual Amendments

- F8** Substituted by [Commission Implementing Regulation \(EU\) 2020/639 of 12 May 2020 amending Implementing Regulation \(EU\) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight \(Text with EEA relevance\)](#).
- F20** Word in Art. 5(1) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **61(2)**
- F21** Words in Art. 5(2) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **61(3)**
- F22** Word in Art. 5(3) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **61(4)**
- F23** Word in Art. 5(4) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **61(4)**
- F24** Words in Art. 5(6) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **61(5)**

Article 6

‘Certified’ category of UAS operations

- 1 Operations shall be classified as UAS operations in the ‘certified’ category only where the following requirements are met:
- a the UAS is certified pursuant to points (a), (b) and (c) of paragraph 1 of Article 40 of Delegated Regulation (EU) 2019/945; and
 - b the operation is conducted in any of the following conditions:
 - i. over assemblies of people;
 - ii. involves the transport of people;
 - iii. involves the carriage of dangerous goods, that may result in high risk for third parties in case of accident.

2 In addition, UAS operations shall be classified as UAS operations in the ‘certified’ category where the [^{F25}CAA], based on the risk assessment provided for in Article 11, considers that the risk of the operation cannot be adequately mitigated without the certification of the UAS and of the UAS operator and, where applicable, without the licensing of the remote pilot.

Textual Amendments

- F25** Word in Art. 6(2) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **62**

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

Article 7

Rules and procedures for the operation of UAS

1 UAS operations in the ‘open’ category shall comply with the operational limitations set out in Part A of the Annex.

2 UAS operations in the ‘specific’ category shall comply with the operational limitations set out in the operational authorisation as referred to in Article 12 or the authorisation as referred to in Article 16^{F26}...

This paragraph shall not apply where the UAS operator holds an LUC with appropriate privileges.

UAS operations in the ‘specific’ category shall be subject to the applicable operational requirements laid down in Commission Implementing Regulation (EU) No 923/2012⁽²⁾.

3 UAS operations in the ‘certified’ category shall be subject to the applicable operational requirements laid down in Implementing Regulation (EU) No 923/2012 and Commission Regulations (EU) No 965/2012⁽³⁾ and (EU) No 1332/2011⁽⁴⁾.

Textual Amendments

F26 Words in Art. 7(2) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), 63

Article 8

Rules and procedures for the competency of remote pilots

1 Remote pilots operating UAS in the ‘open’ category shall comply with the competency requirements set in Part A of the Annex.

2 Remote pilots operating UAS in the ‘specific’ category shall comply with the competency requirements set out in the operational authorisation by the [^{F27}CAA]^{F28}... or as defined by the LUC and shall have at least the following competencies:

- a ability to apply operational procedures (normal, contingency and emergency procedures, flight planning, pre-flight and post-flight inspections);
- b ability to manage aeronautical communication;
- c manage the unmanned aircraft flight path and automation;
- d leadership, teamwork and self-management;
- e problem solving and decision-making;
- f situational awareness;
- g workload management;
- h coordination or handover, as applicable.

3 Remote pilots operating in the framework of model aircraft clubs or associations shall comply with the minimum competency requirements defined in the authorisation granted in accordance with Article 16.

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

Textual Amendments

- F27** Word in Art. 8(2) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **64(a)**
- F28** Words in Art. 8(2) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **64(b)**

^{F29} Article 9

Minimum age for remote pilots

Textual Amendments

- F29** Art. 9 omitted (28.1.2021) by virtue of [The Aviation Safety \(Amendment\) Regulations 2021 \(S.I. 2021/10\)](#), regs. 1(2), **3(a)**

^{F30} Article 9A

Regulations

Textual Amendments

- F30** Art. 9A omitted (28.1.2021) by virtue of [The Aviation Safety \(Amendment\) Regulations 2021 \(S.I. 2021/10\)](#), regs. 1(2), **3(b)**

Article 10

Rules and procedures for the airworthiness of UAS

Unless privately-built, or used for operations referred to in Article 16, or meeting the conditions defined in Article 20, UAS used in operations set out in this Regulation shall comply with the technical requirements and rules and procedures for the airworthiness defined in the delegated acts adopted pursuant to Article 58 of Regulation (EU) 2018/1139.

Article 11

Rules for conducting an operational risk assessment

- 1 An operational risk assessment shall:
 - a describe the characteristics of the UAS operation;
 - b propose adequate operational safety objectives;

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- c identify the risks of the operation on the ground and in the air considering all of the below:
 - i. the extent to which third parties or property on the ground could be endangered by the activity;
 - ii. the complexity, performance and operational characteristics of the unmanned aircraft involved;
 - iii. the purpose of the flight, the type of UAS, the probability of collision with other aircraft and class of airspace used;
 - iv. the type, scale, and complexity of the UAS operation or activity, including, where relevant, the size and type of the traffic handled by the responsible organisation or person;
 - v. the extent to which the persons affected by the risks involved in the UAS operation are able to assess and exercise control over those risks.
 - d identify a range of possible risk mitigating measures;
 - e determine the necessary level of robustness of the selected mitigating measures in such a way that the operation can be conducted safely.
- 2 The description of the UAS operation shall include at least the following:
- a the nature of the activities performed;
 - b the operational environment and geographical area for the intended operation, in particular overflown population, orography, types of airspace, airspace volume where the operation will take place and which airspace volume is kept as necessary risk buffers, including the operational requirements for geographical zones;
 - c the complexity of the operation, in particular which planning and execution, personnel competencies, experience and composition, required technical means are planned to conduct the operation;
 - d the technical features of the UAS, including its performance in view of the conditions of the planned operation and, where applicable, its registration number;
 - e the competence of the personnel for conducting the operation including their composition, role, responsibilities, training and recent experience.
- 3 The assessment shall propose a target level of safety, which shall be equivalent to the safety level in manned aviation, in view of the specific characteristics of UAS operation.
- 4 The identification of the risks shall include the determination of all of the below:
- a the unmitigated ground risk of the operation taking into account the type of operation and the conditions under which the operation takes place, including at least the following criteria:
 - i. VLOS or BVLOS;
 - ii. population density of the overflown areas;
 - iii. flying over an assembly of people;
 - iv. the dimension characteristics of the unmanned aircraft;
 - b the unmitigated air risk of the operation taking into account all of the below:
 - i. the exact airspace volume where the operation will take place, extended by a volume of airspace necessary for contingency procedures;

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- ii. the class of the airspace;
- iii. the impact on other air traffic and air traffic management (ATM) and in particular:
 - the altitude of the operation;
 - controlled versus uncontrolled airspace;
 - aerodrome versus non-aerodrome environment;
 - airspace over urban versus rural environment;
 - separation from other traffic.

5 The identification of the possible mitigation measures necessary to meet the proposed target level of safety shall consider the following possibilities:

- a containment measures for people on the ground;
- b strategic operational limitations to the UAS operation, in particular:
 - i. restricting the geographical volumes where the operation takes place;
 - ii. restricting the duration or schedule of the time slot in which the operation takes place;
- c strategic mitigation by ^{F31}... flight rules or ^{F31}... airspace structure and services;
- d capability to cope with possible adverse operating conditions;
- e organisation factors such as operational and maintenance procedures elaborated by the UAS operator and maintenance procedures compliant with the manufacturer's user manual;
- f the level of competency and expertise of the personnel involved in the safety of the flight;
- g the risk of human error in the application of the operational procedures;
- h the design features and performance of the UAS in particular:
 - i. the availability of means to mitigate risks of collision;
 - ii. the availability of systems limiting the energy at impact or the frangibility of the unmanned aircraft;
 - iii. the design of the UAS to recognised standards and the fail-safe design.

6 The robustness of the proposed mitigating measures shall be assessed in order to determine whether they are commensurate with the safety objectives and risks of the intended operation, particularly to make sure that every stage of the operation is safe.

Textual Amendments

F31 Word in [Art. 11\(5\)\(c\)](#) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **67**

Article 12

Authorising operations in the 'specific' category

1 The [^{F32}CAA] shall evaluate the risk assessment and the robustness of the mitigating measures that the UAS operator proposes to keep the UAS operation safe in all phases of flight.

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

2 The [F33CAA] shall grant an operational authorisation when the evaluation concludes that:

- a the operational safety objectives take account of the risks of the operation;
- b the combination of mitigation measures concerning the operational conditions to perform the operations, the competence of the personnel involved and the technical features of the unmanned aircraft, are adequate and sufficiently robust to keep the operation safe in view of the identified ground and air risks;
- c the UAS operator has provided a statement confirming that the intended operation complies with any applicable F34... rules relating to it, in particular, with regard to privacy, data protection, liability, insurance, security and environmental protection.

3 When the operation is not deemed sufficiently safe, the [F35CAA] shall inform the applicant accordingly, giving reasons for its refusal to issue the operational authorisation.

4 The operational authorisation granted by the [F36CAA] shall detail:

- a the scope of the authorisation;
- b the ‘specific’ conditions that shall apply:
 - i. to the UAS operation and the operational limitations;
 - ii. to the required competency of the UAS operator and, where applicable, of the remote pilots;
 - iii. to the technical features of the UAS, including the certification of the UAS, if applicable;
- c the following information:
 - i. the registration number of the UAS operator and the technical features of the UAS;
 - ii. a reference to the operational risk assessment developed by the UAS operator;
 - iii. the operational limitations and conditions of the operation;
 - iv. the mitigation measures that the UAS operator has to apply;
 - v. the location(s) where the operation is authorised to take place F37... ;
 - vi. all documents and records relevant for the type of operation and the type of events that should be reported in addition to those defined in Regulation (EU) No 376/2014 of the European Parliament and of the Council⁽⁵⁾.

F385

Textual Amendments

- F32** Word in Art. 12(1) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(2)**
- F33** Word in Art. 12(2) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(3)(a)**
- F34** Words in Art. 12(2)(c) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(3)(b)**
- F35** Word in Art. 12(3) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(4)**
- F36** Word in Art. 12(4) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(5)(a)**

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- F37** Words in Art. 12(4)(c)(v) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(5)(b)**
- F38** Art. 12(5) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **68(6)**

^{F39}Article 13

Cross-border operations or operations outside the state of registration

Textual Amendments

- F39** Art. 13 omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **69**

Article 14

Registration of UAS operators and certified UAS

1 ^{F40}The CAA] shall establish and maintain accurate registration systems for UAS whose design is subject to certification and for UAS operators whose operation may present a risk to safety, security, privacy, and protection of personal data or environment.

2 The registration systems for UAS operators shall provide the fields for introducing and exchanging the following information:

- a the full name and the date of birth for natural persons and the name and their identification number for legal persons;
- b the address of UAS operators;
- c their email address and telephone number;
- d an insurance policy number for UAS if required by ^{F41}an enactment];
- e the confirmation by legal persons of the following statement: ‘All personnel directly involved in the operations are competent to perform their tasks, and the UAS will be operated only by remote pilots with the appropriate level of competency’;
- f operational authorisations and LUCs held ^{F42}... .

3 The registration systems for unmanned aircraft whose design is subject to certification shall provide the fields for introducing and exchanging the following information:

- a manufacturer's name;
- b manufacturer's designation of the unmanned aircraft;
- c unmanned aircraft's serial number;
- d full name, address, email address and telephone number of the natural or legal person under whose name the unmanned aircraft is registered.

^{F43}4

5 ^{F44}Subject to paragraph 5A,] UAS operators shall register themselves:

- a when operating within the ‘open’ category any of the following unmanned aircraft:

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- i. with a MTOM of 250 g or more, or, which in the case of an impact can transfer to a human kinetic energy above 80 Joules;
 - ii. that is equipped with a sensor able to capture personal data, unless it complies with ^{F45}the Toys (Safety) Regulations 2011].
- b when operating within the ‘specific’ category an unmanned aircraft of any mass.

^{F46}5A Paragraph 5 does not apply to UAS operations performed with a small control line model aircraft:

- a in the ‘open’ category;
- b in the ‘specific’ category in accordance with an authorisation received under Article 16.]

6 UAS operators shall register themselves ^{F47}with the CAA] and ensure that their registration information is accurate. ^{F48}...

^{F49}The CAA] shall issue a unique digital registration number for UAS operators and for the UAS that require registration, allowing their individual identification.

^{F50}
...

7 The owner of an unmanned aircraft whose design is subject to certification shall register the unmanned aircraft.

The nationality and registration mark of an unmanned aircraft shall be established in line with ICAO Annex 7. ^{F51}...

8 The UAS operators shall display their registration number on every unmanned aircraft meeting the conditions described in paragraph 5.

^{F99} In addition to the data defined in point (2) ^{F52}the CAA] may collect additional identity information from the UAS operators.]

^{F53}10 In this Article, “small control line model aircraft” means a fixed-wing unmanned aircraft having a MTOM of not more than 7.5 kg and which is flown within limits imposed by a restraining device of not more than 25 metres in length which attaches the aircraft to the surface or to a person on the surface.]

Textual Amendments

- F9** Inserted by [Commission Implementing Regulation \(EU\) 2020/639 of 12 May 2020 amending Implementing Regulation \(EU\) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight \(Text with EEA relevance\)](#).
- F40** Words in Art. 14(1) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **70(2)**
- F41** Words in Art. 14(2)(d) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **70(3)(a)**
- F42** Words in Art. 14(2)(f) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **70(3)(b)**
- F43** Art. 14(4) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **70(4)**
- F44** Words in Art. 14(5) inserted (20.11.2021) by [The Aviation Safety \(Amendment\) \(No. 3\) Regulations 2021 \(S.I. 2021/1203\)](#), regs. 1(2), **35(1)**
- F45** Words in Art. 14(5)(a)(ii) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **70(5)**

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- F46** Art. 14(5A) inserted (20.11.2021) by The Aviation Safety (Amendment) (No. 3) Regulations 2021 (S.I. 2021/1203), regs. 1(2), **35(2)**
- F47** Words in Art. 14(6) substituted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **70(6)(a)(i)**
- F48** Words in Art. 14(6) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **70(6)(a)(ii)**
- F49** Words in Art. 14(6) substituted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **70(6)(b)**
- F50** Words in Art. 14(6) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **70(6)(c)**
- F51** Words in Art. 14(7) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **70(7)**
- F52** Words in Art. 14(9) substituted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **70(8)**
- F53** Art. 14(10) inserted (20.11.2021) by The Aviation Safety (Amendment) (No. 3) Regulations 2021 (S.I. 2021/1203), regs. 1(2), **35(3)**

Article 15

Operational conditions for UAS geographical zones

- 1 ^[F54]The Secretary of State may make regulations for the purpose of designating UAS geographical zones for safety, security, privacy or environmental reasons. The regulations may:]
- ^[F8]a prohibit certain or all UAS operations, request particular conditions for certain or all UAS operations or require a prior flight authorisation for certain or all UAS operations;]
- b subject UAS operations to specified environmental standards;
- c allow access to certain UAS classes only;
- d allow access only to UAS equipped with certain technical features, in particular remote identification systems or geo awareness systems.

^[F55]2 The Secretary of State may by regulations designate certain geographical zones in which UAS operations are exempt from one or more of the ‘open’ category requirements.]

3 When pursuant to paragraphs 1 or 2 Member States define UAS geographical zones, for geo awareness purposes they shall ensure that the information on the UAS geographical zones, including their period of validity, is made publicly available in a common unique digital format.

^[F56]4 Regulations made under this Article are to be made by statutory instrument.]

Textual Amendments

- F8** Substituted by Commission Implementing Regulation (EU) 2020/639 of 12 May 2020 amending Commission Implementing Regulation (EU) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight (Text with EEA relevance).
- F54** Words in Art. 15(1) substituted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **71(2)**
- F55** Art. 15(2) substituted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **71(3)**
- F56** Art. 15(4) inserted (31.12.2020) by The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **71(4)**

Article 16

UAS operations in the framework of model aircraft clubs and associations

1 Upon request by a model aircraft club or association, the [F57CAA] may issue an authorisation for UAS operations in the framework of model aircraft clubs and associations.

2 The authorisation referred to in paragraph 1 shall be issued in accordance with any of the following:

- ^{F58}a
- b established procedures, organisational structure and management system of the model aircraft club or association, ensuring that:
- i. remote pilots operating in the framework of model aircraft clubs or associations are informed of the conditions and limitations defined in the authorisation issued by the [F59CAA];
 - ii. remote pilots operating in the framework of model aircraft clubs or associations are assisted in achieving the minimum competency required to operate the UAS safely and in accordance with the conditions and limitations defined in the authorisation;
 - iii. the model aircraft club or association takes appropriate action when informed that a remote pilot operating in the framework of model aircraft clubs or associations does not comply with the conditions and limitations defined in the authorisation, and, if necessary, inform the [F60CAA];
 - iv. the model aircraft club or association provides, upon request from the [F61CAA], documentation required for oversight and monitoring purposes.

3 The authorisation referred to in paragraph 1 shall specify the conditions under which operations in the framework of the model aircraft clubs or associations may be conducted ^{F62}... .

4 [F63The CAA may, after consultation with the Secretary of State,] enable model aircraft clubs and associations to register their members into the registration systems established in accordance with Article 14 on their behalf. If this is not the case, the members of model aircraft clubs and associations shall register themselves in accordance with Article 14.

Textual Amendments

- F57** Word in Art. 16(1) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(2)**
- F58** Art. 16(2)(a) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(3)(a)**
- F59** Word in Art. 16(2)(b)(i) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(3)(b)**
- F60** Word in Art. 16(2)(b)(iii) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(3)(b)**
- F61** Word in Art. 16(2)(b)(iv) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(3)(b)**
- F62** Words in Art. 16(3) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(4)**

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

F63 Words in Art. 16(4) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **72(5)**

^{F64}Article 17

Designation of the competent authority

Textual Amendments

F64 Art. 17 omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **73**

Article 18

[^{F65}Responsibilities of the CAA]

The [^{F66}CAA] shall be responsible for:

- (a) enforcing this Regulation;
- (b) issuing, suspending or revoking certificates of UAS operators and licenses of remote pilots operating within the ‘certified’ category of UAS operations;
- (c) issuing remote pilots with a proof of completion of an online theoretical knowledge examination according to points UAS.OPEN.020 and UAS.OPEN.040 of the Annex and issuing, amending, suspending, limiting or revoking certificates of competency of remote pilots according to point UAS.OPEN.030 of the Annex;
- (d) issuing, amending, suspending, limiting or revoking operational authorisations and LUCs ^{F67}..., which are required to carry out UAS operations in the ‘specific’ category of UAS operations;
- (e) keeping documents, records and reports concerning UAS operational authorisations, ^{F68}... certificates of competency of the remote pilots and LUCs;
- (f) ^{F69}
- (g) ^{F70}
- (h) developing a risk-based oversight system for:
 - i. UAS operators that ^{F71}... hold an operational authorisation or an LUC;
 - ii. model clubs and associations that hold an authorisation referred to in Article 16;
- (i) for operations other than those in the ‘open’ category, establishing audit planning based on the risk profile, compliance level and the safety performance of UAS operators who ^{F72}... hold a certificate issued by the [^{F73}CAA];

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- (j) for operations other than those in the ‘open’ category, carrying out inspections with regard to UAS operators who ^{F74}... hold a certificate issued by the [^{F75}CAA] inspecting UAS and ensuring that UAS operators and remote pilots comply with this Regulation;
- (k) implementing a system to detect and examine incidents of non-compliance by UAS operators operating in the ‘open’ or ‘specific’ categories and reported in accordance with paragraph 2 of Article 19;
- (l) providing UAS operators with information and guidance that promotes the safety of UAS operations;
- (m) establishing and maintaining registration systems for UAS whose design is subject to certification and for UAS operators whose operation may present a risk to safety, security, privacy, and protection of personal data or the environment.

Textual Amendments

- F65** Art. 18 heading substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(2)**
- F66** Word in Art. 18 substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(3)**
- F67** Words in Art. 18(d) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(4)**
- F68** Word in Art. 18(e) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(5)**
- F69** Art. 18(f) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(6)**
- F70** Art. 18(g) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(6)**
- F71** Words in Art. 18(h)(i) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(7)**
- F72** Words in Art. 18(i) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(8)(a)**
- F73** Word in Art. 18(i) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(8)(b)**
- F74** Words in Art. 18(j) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(9)(a)**
- F75** Word in Art. 18(j) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **74(9)(b)**

Article 19

Safety information

1 The [^{F76}CAA] and market surveillance and control authorities referred to in Article 36 of Delegated Regulation (EU) 2019/945 shall cooperate on safety matters and establish procedures for the efficient exchange of safety information.

2 Each UAS operator shall report to the [^{F77}CAA] on any safety-related occurrence and exchange information regarding its UAS in compliance with Regulation (EU) No 376/2014.

3 The [^{F78}CAA] shall collect, analyse and publish safety information concerning UAS operations ^{F79}... .

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

4 Upon receiving any of the information referred to in paragraphs 1 [^{F80}or 2, the CAA] shall take the necessary measures to address any safety issues on the best available evidence and analysis, taking into account interdependencies between the different domains of aviation safety, and between aviation safety, cyber security and other technical domains of aviation regulation.

5 Where the [^{F81}CAA] takes measures in accordance with paragraph 4, it shall immediately notify all relevant interested parties and organisations that need to comply with those measures in accordance with Regulation (EU) 2018/1139 and its implementing acts.

Textual Amendments

- F76** Word in Art. 19(1) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **75(2)**
- F77** Word in Art. 19(2) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **75(3)**
- F78** Word in Art. 19(3) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **75(4)(a)**
- F79** Words in Art. 19(3) omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **75(4)(b)**
- F80** Words in Art. 19(4) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **75(5)**
- F81** Word in Art. 19(5) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **75(6)**

Article 20

Particular provisions concerning the use of certain UAS in the ‘open’ category

UAS ^{F82}... which do not comply with Delegated Regulation (EU) 2019/945 and which are not privately-built are allowed to continue to be operated under the following conditions, when they have been placed on the market before [^{F83}1 January 2026]:

- (a) in subcategory A1 as defined in Part A of the Annex, provided that the unmanned aircraft has a maximum take-off mass of less than 250 g, including its payload;
- (b) in subcategory A3 as defined in Part A of the Annex, provided that the unmanned aircraft has a maximum take-off mass of less than 25 kg, including its fuel and payload.

Textual Amendments

- F82** Words in Art. 20 omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **76**
- F83** Words in Art. 20 substituted (23.12.2022) by [The Aviation Safety and Air Traffic Management \(Amendment\) Regulations 2022 \(S.I. 2022/1235\)](#), regs. 1(2), **11(2)**

^{F85}Article 21

Adaptation of authorisations ^{F84}... and certificates

.....

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

Textual Amendments

- F84** Word in Art. 21 heading omitted (31.12.2020) by virtue of [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **77(2)**
- F85** Art. 21 omitted (23.12.2022) by virtue of [The Aviation Safety and Air Traffic Management \(Amendment\) Regulations 2022 \(S.I. 2022/1235\)](#), regs. 1(2), **11(3)**

[^{F8}Article 22

Without prejudice to Article 20, [^{F86}before 1 January 2026] the use of UAS in the ‘open’ category which do not comply with the requirements of Parts 1 to 5 of the Annex to Commission Delegated Regulation (EU) 2019/945 ⁽⁶⁾ shall be allowed ^{F87}... , subject to the following conditions:

- (a) unmanned aircraft with a take-off mass of less than 500 g are operated within the operational requirements set out in points UAS.OPEN.020(1) of Part A of the Annex by a remote pilot having competency level [^{F88}at least equivalent to the level in point UAS.OPEN.030(2) of Part A of the Annex];
- (b) unmanned aircraft with a take-off mass of less than 2 kg is operated by keeping a minimum horizontal distance of 50 meters from people and the remote pilots have a competency level at least equivalent to the one set out in point UAS.OPEN.030(2) of Part A of the Annex;
- (c) unmanned aircraft with a take-off mass of less than 25 kg is operated within the operational requirements set out in point UAS.OPEN.040(1) and (2) and the remote pilots have a competency level at least equivalent to the one set out in point UAS.OPEN.020(4)(b) of Part A of the Annex.]

Textual Amendments

- F8** Substituted by [Commission Implementing Regulation \(EU\) 2020/639 of 12 May 2020 amending Implementing Regulation \(EU\) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight \(Text with EEA relevance\)](#).
- F86** Words in Art. 22 inserted (23.12.2022) by [The Aviation Safety and Air Traffic Management \(Amendment\) Regulations 2022 \(S.I. 2022/1235\)](#), regs. 1(2), **11(4)(a)**
- F87** Words in Art. 22 omitted (23.12.2022) by virtue of [The Aviation Safety and Air Traffic Management \(Amendment\) Regulations 2022 \(S.I. 2022/1235\)](#), regs. 1(2), **11(4)(b)**
- F88** Words in Art. 22(a) substituted (31.12.2020) by [The Unmanned Aircraft \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1593\)](#), regs. 1(2), **78**

[^{F8}Article 23

1 This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

[^{F89}It shall apply from 31 December 2020.]

- ^{F90} 2
- ^{F91} 3
- ^{F92} 4
- ^{F93} 5]

Changes to legislation: There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

Textual Amendments

- F8** Substituted by Commission Implementing Regulation (EU) 2020/639 of 12 May 2020 amending Implementing Regulation (EU) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight (Text with EEA relevance).
- F89** Substituted by Commission Implementing Regulation (EU) 2020/746 of 4 June 2020 amending Implementing Regulation (EU) 2019/947 as regards postponing dates of application of certain measures in the context of the COVID-19 pandemic (Text with EEA relevance).
- F90** Art. 23(2) omitted (1.7.2022) by virtue of The Aviation Safety (Amendment) Regulations 2022 (S.I. 2022/637), regs. 1(2), **6**
- F91** Art. 23(3) omitted (1.7.2022) by virtue of The Aviation Safety (Amendment) Regulations 2022 (S.I. 2022/637), regs. 1(2), **6**
- F92** Art. 23(4) omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **79**
- F93** Art. 23(5) omitted (1.7.2022) by virtue of The Aviation Safety (Amendment) Regulations 2022 (S.I. 2022/637), regs. 1(2), **6**

F94

Textual Amendments

- F94** Words in *Signature* omitted (31.12.2020) by virtue of The Unmanned Aircraft (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1593), regs. 1(2), **80**

Changes to legislation: There are currently no known outstanding effects for the
Commission Implementing Regulation (EU) 2019/947. (See end of Document for details)

- (1) [^{F9}Commission Implementing Regulation (EU) No 923/2012 of 26 September 2012 laying down the common rules of the air and operational provisions regarding services and procedures in air navigation and amending Implementing Regulation (EU) No 1035/2011 and Regulations (EC) No 1265/2007, (EC) No 1794/2006, (EC) No 730/2006, (EC) No 1033/2006 and (EU) No 255/2010 (OJ L 281, 13.10.2012, p. 1).]
- (2) Commission Implementing Regulation (EU) No 923/2012 of 26 September 2012 laying down the common rules of the air and operational provisions regarding services and procedures in air navigation and amending Implementing Regulation (EU) No 1035/2011 and Regulations (EC) No 1265/2007, (EC) No 1794/2006, (EC) No 730/2006, (EC) No 1033/2006 and (EU) No 255/2010 (OJ L 281, 13.10.2012, p. 1).
- (3) Commission Regulation (EU) No 965/2012 of 5 October 2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council (OJ L 296, 25.10.2012, p. 1).
- (4) Commission Regulation (EU) No 1332/2011 of 16 December 2011 laying down common airspace usage requirements and operating procedures for airborne collision avoidance (OJ L 336, 20.12.2011, p. 20).
- (5) Regulation (EU) No 376/2014 of the European Parliament and of the Council of 3 April 2014 on the reporting, analysis and follow-up of occurrences in civil aviation, amending Regulation (EU) No 996/2010 of the European Parliament and of the Council and repealing Directive 2003/42/EC of the European Parliament and of the Council and Commission Regulations (EC) No 1321/2007 and (EC) No 1330/2007 (OJ L 122, 24.4.2014, p. 18).
- (6) [^{F8}Commission Delegated Regulation (EU) 2019/945 of 12 March 2019 on unmanned aircraft systems and on third-country operators of unmanned aircraft systems (OJ L 152, 11.6.2019, p. 1).]

Textual Amendments

- F8** Substituted by [Commission Implementing Regulation \(EU\) 2020/639 of 12 May 2020 amending Implementing Regulation \(EU\) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight \(Text with EEA relevance\)](#).
- F9** Inserted by [Commission Implementing Regulation \(EU\) 2020/639 of 12 May 2020 amending Implementing Regulation \(EU\) 2019/947 as regards standard scenarios for operations executed in or beyond the visual line of sight \(Text with EEA relevance\)](#).

Changes to legislation:

There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2019/947.