

CIVIL AVIATION AUTHORITY

Air Navigation Order 2009



PERMISSION – Small Unmanned Aircraft / Small Unmanned Surveillance Aircraft

1. The Civil Aviation Authority, in exercise of its powers under Article 166(5) and Article 167(1) of the Air Navigation Order 2009, as amended, hereby permits **Red Anvil Limited**, ("the person in charge") being the person in charge of a Small Unmanned Aircraft (SUA) / Small Unmanned Surveillance Aircraft (SUSA) ("the said aircraft") of the following class(es):

- (a) SUA multicopter with a Maximum Take-Off Mass (MTOM) not exceeding 7kg

to conduct aerial work with the said aircraft

2. This Permission is granted subject to the following conditions, namely, that the said aircraft shall not be flown:

Operational Conditions for all Classes:

- (a) other than by persons employed by or contracted to Red Anvil Limited whilst being holder(s) of an appropriate qualification issued by a UK National Qualified Entity for SUA/SUSA pilot competency, or an alternative pilot competency qualification acceptable to the CAA (IN 2015/008 www.caa.co.uk/in2015008 refers);
- (b) at a height exceeding **400 feet** above ground level;
- (c) at a distance beyond the visual range of the person in charge of the said aircraft, or a maximum range of **500 metres** unless a lesser radio transmission range has been specified by the manufacturer;
- (d) directly overhead or within 150 metres of an organised open-air assembly of more than 1,000 persons;
- (e) directly overhead or within 50 metres of any person, vessel, vehicle or structure that is not under the control of the person in charge of the said aircraft, except that during take-off and landing this distance may be reduced to 30 metres;
- (f) unless the permission of the landowner on whose land the said aircraft is intended to takeoff and land, has been obtained;
- (g) unless it is equipped with a mechanism that will cause the said aircraft to land in the event of disruption to or a failure of any of its control systems, including the radio link, and the person in charge of the said aircraft has satisfied himself that such mechanism is in working order before the aircraft commences its flight;
- (h) unless the person in charge of the said aircraft has reasonably satisfied himself that any load carried by the aircraft is properly secured, that the said aircraft is in an airworthy condition and that the flight can safely be made taking into account the wind and other significant weather conditions;
- (i) unless the flights are conducted in accordance with the current operations manual of the person in charge of the said aircraft and a site safety assessment has been completed. Site safety assessments are to be made available to the Authority on request;
- (j) unless the person in charge of the said aircraft maintains records of each flight made pursuant to this Permission and makes such records available to the Authority on request;

Additional Requirements for all Classes where the said aircraft has a MTOM greater than 7 kg but not exceeding 20 kg:





In addition to the conditions set out in paragraph 2(a-j) above, any SUA/SUSA with a MTOM greater than 7 kg but not exceeding 20 kg must not be flown:

- (k) in controlled airspace, except with the permission of the appropriate air traffic control unit;
- (l) in any aerodrome traffic zone except with the permission either of the appropriate air traffic control unit or the person in charge of the aerodrome;
- (m) directly overhead or within 150 metres of any congested area of a city, town or settlement.

SUA/SUSA can also be defined as small Remotely Piloted Aircraft Systems (small RPAS). In airspace control terms, operations of Small RPAS (SUA/SUSA) with a MTOM greater than 7 kg but not exceeding 20 kg are considered Unusual Aerial Activities. If the flight is to take place within controlled airspace, the person in charge of the said aircraft is required to seek prior approval from the relevant Air Traffic Control (ATC) unit.

Such flights will be processed for NATS-administered controlled airspace under either Non-Standard Flight (NSF) or Enhanced Non-Standard Flight (ENSF) approval procedures. These procedures are set out on the NATS website at: www.nats.aero/nsf/rpas.aspx. Further details of the NSF/ENSF procedures are published at AIP ENR 1.1, section 4, paragraph 4.1.8 www.ais.org.uk

If approval is granted, the person in charge of the said aircraft is to fly the said aircraft entirely within the limits of the stated lateral and vertical operating area. No safety assurance against other Unusual Air Activities taking place in the same area is given or implied. NATS approval to fly within controlled airspace or an Aerodrome Traffic Zone does not absolve the operator from the responsibility for avoiding all other aircraft.

- 3. Within the London Restricted Areas EG R157 (Hyde Park), EG R158 (City of London) and EG R159 (Isle of Dogs), the person in charge of the said aircraft, **of any MTOM**, is required to obtain an ENSF clearance as referred to in paragraph 2 (above). This is mandatory for all flights below 1400 feet AMSL and will involve authorisation by the Diplomatic Protection Group (DPG).
- 4. Further detailed guidance on SUA operations within London and other towns and cities is available at: www.caa.co.uk/in2014190.
- 5. This Permission shall have effect during daylight hours from 17 July 2015 until and including **17 July 2016** unless previously varied, suspended or revoked.

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Certificate Number: 1
SSC Technical Services 01293 573528

for the Civil Aviation Authority

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NOTE:

Aircraft operators and pilots should be aware that the collection of images of identifiable individuals, even inadvertently, when using surveillance cameras mounted on a small unmanned surveillance aircraft, may be subject to the Data Protection Act. As this Act contains requirements concerning the collection, storage and use of such images, Small Unmanned Aircraft operators should ensure that they are complying with any such applicable requirements or exemptions. Further information about the Data Protection Act and the circumstances in which it applies can be obtained from the Information Commissioner's Office and website: <http://ico.org.uk/for-the-public/drones/>