

香港特別行政區政府 民航處 Civil Aviation Department

The Government of the Hong Kong Special Administrative Region

Application for Category C Small Unmanned Aircraft Operation

- 1. Please read the Safety Requirements Document and the relevant CAD Advisory Circular(s) for detailed requirements before completing this application form.
- 2. The completed form shall be submitted to the CAD by email to <u>sua@cad.gov.hk</u>, accompanied by relevant application fee.¹

1. APPLICANT'S PARTICULARS
Name of Organisation (in full):
Business Registration Certificate No.:
Note: The organisation shall demonstrate its local nexus (such as be registered in Hong Kong under
the Business Registration Ordinance (Cap. 310))
Registered Address:
Name of Accountable Manager (in full):
Post Title in the Organisation:
Contact Tel. No.: Email Address:
I acknowledge that, upon issuance of the AOP, my organisation would be listed as the Advanced
Operations Permission Holder on the CAD website.
For existing AOP Holder
Advanced Operations Permission No.: AOP Date of Expiry:
2. OPERATION DETAILS
Justification for the operational needs of the flight (Attach additional sheets if required):

¹ The application fee relating to the permission will be waived until further notice.

Model of SUA to be used and maximum weight of the drone during operations in kg:		
Name of Remote Pilot(s) and Remote Pilot certificate reference		
ivalle of Remote Fliou(s) and Remote Fliot certificate reference	number.	
Date of operation: Time of c	pperation:	
Location of operation site:		
	☐ Yes ☐ No (skip to Section 2A)	
Name of Restricted Flying Zone(s) involved:		
Designated by □ Director-General of Civil Aviation □ Secret	ary for Security Hong Kong Police Force	
*Note: The applicant should identify and specify above all restricte		
Consent / Permission / Licence from Government Bureaux / De		
	-	
☐ Yes. B/D concerned: Relevant Document Attached:		
☐ No. Reason:		
Relevant Operating Procedures documented in Operations Manua	l: Issue/Revision No:	
2A. Pre-defined Scenario #1		
	□ Vec □ No	
I am applying operation under Pre-defined Scenario #1 (refer	☐ Yes ☐ No	
to AC-014 section 7)	☐ No, but the type of operation is same as previous successful application	
	•	
(AOP No.:)		
Operating Requirements in Pre-defined Scenario #1	Adherence?	
Area of operations	☐ Yes	
 Controlled ground area without any uninvolved people, vehicles and vessels 	☐ No^ Description of proposed ground area:	
1 1 /	Description of proposed ground area.	

Time of operations • Daylight hours only	☐ Yes ☐ No^ Proposed operating hours:
Maintain visual line of sight (VLOS)	☐ Yes ☐ No^ (Please tick one of the following) ☐ EVLOS ☐ BVLOS
Maximum flying altitude • 300 ft Above Ground Level ("AGL")	☐ Yes ☐ No^ Proposed maximum altitude: ft AGL
Minimum lateral separation from uninvolved people/structures/ vehicles/vessels* • 30 m* *Cordon line must be established. For tethered operations with the tether length not exceeding 25 m, the minimum lateral separation from uninvolved people/structures/vehicles/vessels = tether length + 5m from the point where the tether is fixed to the ground.	☐ Yes ☐ No^ Minimum lateral separation:m
Maximum speed • 20 km/hr	☐ Yes ☐ No^ Proposed maximum speed:km/hr
Maximum number of SUA to be operated by a remote pilot at the same time • 1	☐ Yes ☐ No^ Proposed maximum number of SUA to be operated by one remote pilot:
Maximum characteristic dimensions of SUA (e.g. wingspan or longest distance between any two rotor blade tips) • 3 m, except that the longest distance between any two rotor blade tips can be up to 3.2 m	☐ Yes ☐ No^ Proposed maximum characteristic dimension:
Dropping from SUA	☐ No ☐ Yes^ Proposed weight and nature of payload:
^Note: Please provide justifications, risk assessment and safety r 11.8 of AC-014	nitigation measures as stipulated in paragraph

3. REQUIRED DOCUMENTS		
Required Documents	Submitted?	
I. Business Registration		
Organisation registration document (E.g. a copy of the Business Registration Certificate or other equivalent registration document issued by the Hong Kong SAR	☐ Yes (File / Document name:	
Government)	☐ Same as previous successful application (AOP No)	
II. Company Background		
Description of the organisation's nature of work	☐ Yes (File / Document name:	
	☐ Same as previous successful application (AOP No)	
III. Organisation Structure		
	☐ Yes (File / Document name:	
	☐ Same as previous successful application (AOP No)	
IV. Resume (CV) of Accountable Manager		
Contact details, role in organisation and CV of the Accountable Manager	☐ Yes (File / Document name:	
	☐ Same as previous successful application (AOP No)	
V. Qualification and Training Record of Pilots		
List of Remote Pilots involved in the intended operation with the following details: • Personal particulars (e.g. full name and contacts)	☐ Yes (File / Document name:	
 Qualifications (e.g. the reference number and validity of the remote pilot certificate) Training records (e.g. date and content of the initial and any recurrent training received by the crew members) 	☐ Same as previous successful application (AOP No)	
VI. List of SUA(s) to be used for the Intended Operation		
 SUA registration number Manufacturer name (if applicable) Model name or model number (if applicable) Type of SUA (e.g. drone, controlled model fixed wing, 	☐ Yes (File / Document name:	
 etc.) Serial number of aircraft body or flight controller (if any) Weight and maximum characteristic dimension of SUA Other technical specifications of the SUA (e.g. wind speed limitation) 	☐ Same as previous successful application (AOP No)	

VII. Technical and Equipment Requirements		
 A Category C SUA is issued with a Type Certificate ("TC") by a national aviation authority ("NAA") in accordance with certification standards defined in ICAO Annex 8 as accepted by the CAD; A Category C SUA is issued with an official document or a documentary substantiation by the SUA manufacturer to demonstrate compliance with technical standards of its national authority or NAA as accepted by the CAD; or A self-assembled or self-built SUA Category C SUA is demonstrated in conformity to a NAA-approved design or a national authority's technical standards as accepted by the CAD and assessed to the satisfaction of the CAD. 	☐ Yes (File / Document name:	
VIII. Operations Manual		
Please refer to the requirements in Appendix A of the CAD Advisory Circular AC-014 Please fill 'OM Checklist' if you are a new applicant / have made any changes to the OM of a successful application	☐ Yes (File / Document name: ☐ Same as previous successful application (AOP No.)	
IX. Flight Plan		
The flight plan shall at least include the following details. Any information that is subject to further changes shall be clearly indicated. Take-off / landing point Flight path / area Geo-fencing boundary Altitude and speed How is VLOS maintained Position of remote pilot and other crew members The method of maintaining minimum separation from uninvolved persons and vehicle, vessel or structure not under control of remote pilot	☐ Yes (File / Document name:) ☐ Same as previous successful application (AOP No)	
X. Risk Assessment		
A risk assessment identifying hazards specific to proposed Category C SUA operations and the corresponding risk mitigation measures. [Please refer to the requirements in the respective CAD Advisory Circular(s) (e.g. Appendix B)]	☐ Yes (File / Document name: ☐ Same as previous successful application (AOP No)	
XI. Insurance Policy		
A policy of insurance is in force to insure a person or a class of person for third-party liability (for bodily injury and/or death) with minimum coverage of HKD \$15 million (for over 25kg and under or equal to 75kg) / \$20 million (for over 75kg and under 150kg) for the proposed operations.	☐ Yes (File / Document name: ☐ Same as previous successful application (AOP No.	

OM Checklist (OM File Name: *Only fill if you select 'yes' in Required Documents Section VIII.			
	Required sections Included?		
Part	A – Organisational Procedures	☐ New application / Chang ☐ Same as accepted OM R *Do not fill the sections i	ev*
A.1	Administration	☐ New application / Chang ☐ Same as accepted OM R *Do not fill the sections und	ev*
1.1	Contents • Brief list of OM contents		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
1.2	Introductory statement and applicability • State the applicability of this OM to whom and when the contents within this OM must be adhered to.		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
1.3	DefinitionsInclude any common acronyms, if necessary.		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
1.4	 Document control and amendment procedure Include access and distribution, amendment procedure, revision history and means to indicate amendments. Note: Amendments shall be accepted by the CAD coming into effect. 		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
A.2	Organisation	☐ New application / Chang ☐ Same as previous OM R *Do not fill the sections und	
2.1	.1 Structure of organisation and management lines • Organogram with brief description		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
2.2	 Roles and responsibilities Specify the roles and responsibilities of each key position, including Accountable Manager, remote pilot, supporting crew, visual observer, maintenance personnel, and etc. 		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
2.3	Competency of the personnel • Detail the qualification/experience/train for each position of personnel.	ining requirements required	☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev

2.4	 Training programme Detail the training programme (OEM and internal training, as well as initial and recurrent training) for each type/model of SUA and/or type of operation. Safety and quality assurance Detail the safety and quality assurance activities for operation and ensuring continuous compliance with applicable requirements, Operations Manual, and etc. 		□ New application / Changes were made (Section / Paragraph No.:) □ Same as accepted OM Rev □ New application / Changes were made (Section / Paragraph No.:) □ Same as accepted OM Rev
2.6	 Accident / incident handling and reporting Describe the internal and external reporting procedures for accident/ incident (e.g. definition, reporting line and timeframe), as well as the investigation and follow-up policy (e.g. root cause identification, corrective action). Note: The following reporting procedures to authorities shall be followed: Notify Police by phone immediately and an email notification to the CAD at sua@cad.gov.hk, if the operation has caused any damage to property or injury to person; Within 24 hours of any incident or accident (whether or not there was damage to third party property or injury), provide full details of the circumstances in writing to the CAD by email to sua@cad.gov.hk. Within 3 calendar days, provide additional details and/or investigation findings by email to sua@cad.gov.hk. 		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
A.3	Overview of the SUA System and Safety Equipment	 □ New application / Chang □ Same as previous OM Re* *Do not fill the sections und 	ev*
3.1	Provide information about the SUA such as: (i) SUA registration number (ii) Manufacturer name (as applicable) (iii) Type of SUA (e.g. multi-copter / fixed-wing / helicopter) (iv) Model name or model number (as applicable) (v) Serial number of aircraft or flight controller (as applicable) (vi) Weight and size of SUA (vii) Payload (viii) Command and control (C2) Link (ix) Navigation and positioning system and fall-back design (x) Sensing system and collision avoidance (xi) Means to cage the SUA within intended area of operations (xii) Fail-safe mechanism (xiii) Other technical specifications including maximum take-off weight, maximum flying altitude, maximum speed, maximum operating time, wind speed limitation, other weather limitation etc. (xiv) Full technical specifications can be supplemented in the Appendix or as a separate technical manual.		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev

3.3	Brief technical description of the SUA controlling system (including ground station, remote controller, flight controlling software, etc.) (i) Display of telemetry data and warning (ii) Primary and redundancy C2 link network, its frequency, maximum working distance, latency, etc. (iii) State how a C2 link between the SUA and the ground control station is established and maintained. Brief technical description of the safety system (i) Manufacturer and model name (ii) Minimum deployment altitude (iii) Descent rate (iv) Triggers		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev ☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
	(v) Conformity to relevant industry acceptance, and etc.	standard of manufacturer	Ow Kev
3.4	Maintenance (i) Maintenance schedule (ii) Maintenance personnel (iii) Maintenance instruction / procedure (iv) Record of defects and maintenance (v) Test before returning to service		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
A.4	Operational Control	 □ New application / Chang □ Same as accepted OM R *Do not fill the sections und 	ev*
4.1	Monitoring of SUA operation (i) Describe how the various operating parameters will be monitored by the remote pilot / operating crew. This shall include (but not be limited to) flight altitude, latitude & longitude, GNSS / GPS / RTK equipage, battery level, geo-fencing, C2 link between each SUA and the ground control station. (ii) Maintain a good lookout at all times and avoid collision with other aircraft (both manned and unmanned). □ New application / Changes were made (Section / Paragraph No.:) □ Same as accepted OM Rev		Changes were made (Section / Paragraph No.:) ☐ Same as accepted
4.2	Management of cordon-off area • Describe how the cordoning measures are maintained and the access control is exercised. □ New application / Changes were made (Section / Paragraph No.:) □ Same as accepted OM Rev		
4.3	□ New application /		Changes were made (Section / Paragraph No.:) ☐ Same as accepted
4.4	Emergency abort criteria (i) State the abort conditions which, if reached, would lead to an immediate and safe termination of the operation. (ii) State who is responsible to make real-time decision to abort the operation. □ New Changes / Paragra □ Same		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev

A.5	Permission Maintenance	☐ New application / Chang☐ Same as accepted OM R	
		*Do not fill the sections und	
5.1	Documentation and records • Indicate the documents/checklists/recoretention period (at least 2 years upon a second content of the s		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
5.2	Change of information • Indicate the procedures to initiate change in policies/procedures/requirements/personnel/SUA, and the reporting mechanism to the CAD		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
Part	B – Operating Procedures	☐ New application / Chang ☐ Same as accepted OM R *Do not fill the sections und	ev*
B.1	Flight Planning / Preparation	☐ New application / Chang ☐ Same as previous OM Re *Do not fill the sections und	ev*
1.1	On-site survey and assessment • Procedures, checklist and items applicable for site survey during flight planning		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
1.2	Describe how the safety risk specific to the operation would be identified and mitigated to an acceptable level. Changes were made (Section Paragraph No.:) □ Same as accepted		Changes were made (Section / Paragraph No.:)
1.3	• Explain how the cordon line(s) would be marked and the assess to the cordon-off area would be controlled to ensure no unauthorised entry into the operating area.		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
1.4	Describe communication protocol with relevant airspace authority and users before operation Chan / Para □ Sa / Para /		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev

B.2	Pre-flight Check		
2.1	Pre-flight check Procedures, checklist and items for prenot limited to: (i) Validation of flight planning (ii) Selection of operating area and altern (iii) Cordon procedure (iv) Communication among crew and stakeholders (v) Crew health (vi) Weather checks (vii) Preparation and serviceability of SUA (viii) Battery management (ix) Assembly and loading of SUA	ative I with relevant airspace	☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
B.3	Normal Operating Procedures		
3.1 3.2 3.3 3.4 3.5	Start Take-off In flight Landing Shutdown		☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
matte Critic minir For e	er procedures may be contained in the operators including safety. It is all information shall be specified. This shall mum battery level required before and during example, the operation shall be terminated if the per (e.g. eight satellites), or battery level dropper of the procedure of the per per per per per per per per per pe	include the minimum numbe the operation. he number of satellites tracke	er of satellites tracked and the
B.4	Emergency Procedures		
4.1	 Emergency procedures for different scenario Specify the emergency procedures in following situations: (i) SUA mechanical failure (ii) Fire (iii) Loss of C2 link (iv) Loss of GPS / GNSS signal (v) Low battery (vi) Flyaway (vii) Public encroachment (viii) Aircraft encroachment 	n response to at least the	☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev
Part	C – Appendices	 □ New application / Chang □ Same as accepted OM R *Do not fill the sections und 	ev*
C.1	SUA technical specifications • Full technical specifications of the SUA	A as applicable	☐ New application / Changes were made (Section / Paragraph No.:) ☐ Same as accepted OM Rev

C.2	Forms and checklist	
	• Include, but not limited to, the following forms / checklists:	
	(i) Flight record	Navy application /
	(ii) Battery log	☐ New application / Changes were made (Section
	(iii) Maintenance log	/ Paragraph No.:
	(iv) Site survey form	☐ Same as accepted
	(v) Risk assessment form	OM Rev
	(vi) Operation checklist	
	(vii) Self-assessment checklist	
	(viii) Occurrence report	

Declaration and signature

I, as the Accountable Manager, declare that:

- The information given in this application is correct to the best of my knowledge and belief;
- I have the authority for ensuring that the operation is to be in compliance with CAD requirements and the conditions of the permission if granted; and
- I am accountable for all matters relating to the application as well as coordination with CAD when needed.

Full Name	Signature & Company Chop
Position in Operation	
Position in Organisation	Date

Anyone, while having dealings of any kind with the Civil Aviation Department (CAD), should not offer advantage to the CAD officers, or else he may commit an offence under section 4(1) and/or section 8 of the Prevention of Bribery Ordinance (Chapter 201 of Laws of Hong Kong), and be liable to a maximum penalty of a fine of \$500,000 and imprisonment for 7 years.

Personal Data Collection Statement

1. Purposes of Collection

The personal data provided by means of this form, including all the supporting documents included in the application, will be used by Civil Aviation Department for the following purposes:

- a. Processing of your application in this form;
- b. Carrying out relevant provisions of the Civil Aviation Ordinance (Chapter 448) and its subsidiary Orders / Regulations;
- c. Assisting in the enforcement of any other Ordinances and Regulations by other Government Bureaux and Departments;
- d. For communication purposes between Civil Aviation Department and yourself;
- e. For validation and verification of authenticity of your supporting documents in association with the application;
- f. For statistics and research purposes on the condition that the resulting statistics or results will not be made available in a form which will identify the data subjects.

It is obligatory for you to supply the personal data as required in this form. If you fail to supply the required data, we may not be able to process your application.

2. Classes of Transferees

The personal data you provided by means of this form may be disclosed to:

- a. Other Government Bureaux and Departments for the purposes mentioned in paragraph 1 above:
- b. Other Contracting States of the International Civil Aviation Organisation and Civil Aviation Authorities for the purpose mentioned in paragraph 1 above;
- c. Other organisations or agencies for execution of their duties as required by Civil Aviation Department.

3. Access to Personal Data

You have a right of access and correction with respect to personal data as provided for in sections 18 and 22 and Principle 6 of Schedule 1 of the Personal Data (Privacy) Ordinance. Your right of access includes the right to obtain a copy of your personal data provided by this form.

4. Enquiries

Enquiries concerning the personal data collected by means of this form, including the making of access and correction, should be addressed to:

Unmanned Aircraft Office Air Services and Safety Management Division Civil Aviation Department Headquarters 1 Tung Fai Road Hong Kong International Airport Lantau, Hong Kong