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## No. S 148

### AIR NAVIGATION ACT 1966

#### AIR NAVIGATION (101 — UNMANNED AIRCRAFT OPERATIONS) (AMENDMENT) REGULATIONS 2022

In exercise of the powers conferred by section 9 of the Air Navigation Act 1966, the Civil Aviation Authority of Singapore, with the approval of the Minister for Transport, makes the following Regulations:

#### **Citation and commencement**

1. These Regulations are the Air Navigation (101 — Unmanned Aircraft Operations) (Amendment) Regulations 2022 and come into operation on 1 June 2022.

#### **Amendment of regulation 13**

2. Regulation 13 of the Air Navigation (101 — Unmanned Aircraft Operations) Regulations 2019 (G.N. No. S 833/2019) (called in these Regulations the principal Regulations) is amended —

- (a) by deleting the word “or” at the end of paragraph (1)(c);
- (b) by deleting the full-stop at the end of sub-paragraph (d) of paragraph (1) and substituting the word “; or”, and by inserting immediately thereafter the following sub-paragraph:
  - “(e) a change in the means by which flight telemetry data can be transmitted without a tracking device affixed to the unmanned aircraft.”; and
- (c) by inserting, immediately after paragraph (3), the following paragraph:

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“(4) In this regulation, “tracking device” has the meaning given by regulation 19B.”.

## **New Part 2A**

3. The principal Regulations are amended by inserting, immediately after regulation 19, the following Part:

### **“PART 2A**

#### **CENTRALISED FLIGHT MANAGEMENT SYSTEM**

##### **Purpose of this Part**

**19A.** The purpose of this Part is to enable the operation of unmanned aircraft in and over Singapore to be monitored and controlled for the safety of air navigation and for public safety.

##### **Definitions of this Part**

**19B.** In this Part, unless the context otherwise requires —

“Centralised Flight Management System” means a system maintained by the Authority for the purpose of —

- (a) monitoring, on a real-time basis, the locations and activities of relevant unmanned aircraft; and
- (b) providing notifications and instructions from the Authority to the operators of relevant unmanned aircraft;

“Centralised Flight Management System service” means a service provided by the Authority for the purpose of providing notifications and instructions from the Authority to the operators of relevant unmanned aircraft;

“designated mobile application” means a mobile application specified in an Advisory issued by the Authority;

“mobile device” means a mobile phone or other similar device;

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“relevant unmanned aircraft” means any unmanned aircraft operated under the authority of any UA operator permit;

“tracking device” means a tracking device that —

- (a) is procured from the Authority or from any other person authorised by the Authority to sell or provide the tracking device; and
- (b) is capable of transmitting flight telemetry data of an unmanned aircraft it is affixed to.

### **Compulsory subscription to Centralised Flight Management System service**

**19C.**—(1) A UA operator permit holder must —

- (a) subscribe to the Centralised Flight Management System service; and
- (b) remain a subscriber to the Centralised Flight Management System service at all times during the validity of the UA operator permit.

(2) A person who, without reasonable excuse, contravenes paragraph (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 6 months or to both.

### **Requirements for unmanned aircraft operated under authority of UA operator permit**

**19D.**—(1) A UA operator permit holder must ensure that each unmanned aircraft operated under the authority of the UA operator permit is, at all times when so operated, in compliance with all of the following requirements:

- (a) where the unmanned aircraft has a total mass exceeding 250 g, the unmanned aircraft must be affixed with a tracking device, where the UA operator permit does not state that flight telemetry data of the unmanned aircraft can be transmitted without a tracking device affixed to the unmanned aircraft;

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- (b) the UA pilot flying the unmanned aircraft —
- (i) has, on his or her person, a mobile device on which the designated mobile application is installed and is in active use; or
  - (ii) has in his or her presence another individual who has, on that individual's person, a mobile device on which the designated mobile application is installed and is in active use;
- (c) the UA pilot flying the unmanned aircraft complies with every instruction given by the Authority to the UA pilot through the designated mobile application mentioned in sub-paragraph (b).

(2) A UA pilot flying an unmanned aircraft operated under the authority of a UA operator permit must, at all times when flying the unmanned aircraft —

- (a) have —
- (i) on his or her person, a mobile device on which the designated mobile application is installed and is in active use; or
  - (ii) in his or her presence another individual who has, on that individual's person, a mobile device on which the designated mobile application is installed and is in active use; and
- (b) comply with every instruction given by the Authority to the UA pilot through the designated mobile application mentioned in sub-paragraph (a).

(3) A person who, without reasonable excuse, contravenes paragraph (1) or (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 6 months or to both.

(4) This regulation does not apply in relation to any particular flight of a particular unmanned aircraft that the Authority waives the application thereof because the Authority is satisfied that the

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circumstances under which that flight is to take place are such that —

- (a) the risk to aviation safety or to public safety from so waiving is negligible; or
- (b) the waiver is necessary or desirable in the interest of national security.”.

#### **Amendment of Second Schedule**

**4.** The Second Schedule to the principal Regulations is amended by inserting, immediately after item 2, the following items:

“2A. The fee for the grant, on or after 1 June 2022, of a UA operator permit is \$200.

2B. The fee for the renewal, on or after 1 June 2023, of a UA operator permit is \$200.”.

*[G.N. Nos. S 371/2020; S 865/2021]*

Made on 24 February 2022.

EDMUND CHENG WAI WING  
*Chairperson,  
Civil Aviation Authority of  
Singapore.*

[LE/LGN/A1.8; AG/LEGIS/SL/6/2020/15 Vol. 1]

(To be presented to Parliament under section 9(9) of the Air Navigation Act 1966).