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**AIR NAVIGATION ACT
(CHAPTER 6)**

**AIR NAVIGATION (AMENDMENT NO. 3)
ORDER 2016**

In exercise of the powers conferred by section 3 of the Air Navigation Act, the Civil Aviation Authority of Singapore, with the approval of the Minister for Transport, makes the following Order:

Citation and commencement

1. This Order is the Air Navigation (Amendment No. 3) Order 2016 and comes into operation on 18 November 2016.

Amendment of paragraph 2

2. Paragraph 2 of the Air Navigation Order (O 2) (called in this Order the principal Order) is amended —

(a) by inserting, immediately after the definition of “appropriate aeronautical radio station” in sub-paragraph (1), the following definition:

“ “appropriate ATS authority” means the relevant authority designated by the State responsible for providing air traffic services in the particular airspace concerned;”;

(b) by inserting, immediately after the definition of “area control service” in sub-paragraph (1), the following definition:

“ “ATS route” means a specified route designed by the appropriate ATS authority for channelling the flow of air traffic as necessary for the provision of air traffic services;”;

- (c) by inserting, immediately after the definition of “nautical mile” in sub-paragraph (1), the following definition:

““navigation specification” means a set of requirements pertaining to the aircraft and flight crew that is needed to support performance-based navigation within a defined airspace;”;

- (d) by inserting, immediately after the definition of “parasail” in sub-paragraph (1), the following definitions:

““performance-based communication” or “PBC” means communication based on performance specifications applied to the provision of air traffic services;

“performance-based navigation” or “PBN” means area navigation based on performance requirements for aircraft operating along an ATS route or in a designated airspace, or for an instrument approach procedure;

“performance-based surveillance” or “PBS” means surveillance based on performance specifications applied to the provision of air traffic services;”;

- (e) by inserting, immediately after the definition of “replacement” in sub-paragraph (1), the following definition:

““required communication performance specification” or “RCP specification” means a set of requirements for the provision of air traffic services and associated ground equipment, aircraft capability, and operations, that is needed to support performance-based communication;”;

- (f) by inserting, immediately after the definition of “required navigation performance” in sub-paragraph (1), the following definition:

“ “required surveillance performance specification” or “RSP specification” means a set of requirements for the provision of air traffic services and associated ground equipment, aircraft capability, and operations, that is needed to support performance-based surveillance;”;

- (g) by deleting the definition of “RNP type” in sub-paragraph (1); and
- (h) by deleting the words “radio and radio navigation” in sub-paragraph (6)(c)(ii) and substituting the words “communication, navigation and surveillance”.

Amendment of paragraph 9

3. Paragraph 9(1) of the principal Order is amended by deleting the words “Transport or Aerial Work Category” and substituting the words “Transport, Aerial Work or Private Category”.

Amendment of paragraph 13

4. Paragraph 13 of the principal Order is amended —

- (a) by deleting sub-paragraph (1) and substituting the following sub-paragraph:

“(1) An aircraft must not fly unless the aircraft is so equipped with communication, navigation and surveillance equipment as to —

- (a) comply with the law of the country in which the aircraft is registered or with the law of the State of the operator; and
 - (b) enable communications to be made, the aircraft to be navigated, and surveillance of the aircraft to be effected, in accordance with the provisions of this Order.”;
- (b) by deleting the words “radio and radio navigation” in sub-paragraphs (2), (4) and (5) and substituting in each case the words “communication, navigation and surveillance”;

- (c) by deleting sub-paragraph (2A) and substituting the following sub-paragraph:

“(2A) A Singapore aircraft to be operated under instrument flight rules must not fly unless the aircraft is so equipped with communication, navigation and surveillance equipment to ensure that the failure of one item of such equipment at any stage of the flight does not prevent the aircraft from proceeding with the flight plan and in accordance with air traffic service requirements, including any additional requirements required to operate in —

- (a) the airspace specified in the Sixteenth Schedule; or
 - (b) a defined portion of airspace or on a route where an RCP specification, a navigation specification or an RSP specification for performance-based communication, performance-based navigation or performance-based surveillance is notified, as the case may be.”;
- (d) by deleting the word “radio” in sub-paragraph (3) and substituting the words “communication, navigation and surveillance”; and
- (e) by deleting the words “Radio and radio navigation” in the paragraph heading and substituting the words “Communication, navigation and surveillance”.

New paragraph 13A

5. The principal Order is amended by inserting, immediately after paragraph 13, the following paragraph:

“Approval of Aircraft Radio Operator

13A.—(1) A person must not operate a radio station in a Singapore registered aircraft that is not in flight unless the person has the Authority’s approval to do so.

(2) The Authority may, subject to such conditions as the Authority thinks fit, grant or renew the approval in sub-paragraph (1) upon being satisfied that the applicant is qualified by his knowledge to operate a radio station in a Singapore registered aircraft.

(3) For the purposes of sub-paragraph (2), the applicant may be required to undergo such examinations and tests or furnish any other evidence as the Authority may determine.

(4) Unless earlier suspended or revoked under section 4C or 4D of the Act, an approval granted or renewed under sub-paragraph (2) is valid for a period of up to 24 months starting on the date of the grant or renewal, as the case may be.”.

Amendment of paragraph 14

6. Paragraph 14 of the principal Order is amended by deleting the words “radio and radio navigation” in sub-paragraphs (1) and (2) and substituting in each case the words “communication, navigation and surveillance”.

Deletion and substitution of paragraph 36A and new paragraphs 36B and 36C

7. Paragraph 36A of the principal Order is deleted and the following paragraphs substituted therefor:

“Performance-based navigation

36A. A person must not operate a Singapore aircraft in an airspace or on a route for which a navigation specification for performance-based navigation is specified by the appropriate ATS authority unless —

- (a) the aircraft is equipped with the navigation equipment required to operate in accordance with the navigation specification; and
- (b) the operator has obtained an approval from the Chief Executive to operate the aircraft in that airspace or on that route.