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**AIR NAVIGATION ACT
(CHAPTER 6)**

**AIR NAVIGATION
(121 — COMMERCIAL AIR
TRANSPORT BY LARGE AEROPLANES)
(AMENDMENT NO. 2) REGULATIONS 2018**

In exercise of the powers conferred by section 3A of the Air Navigation Act, 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 (121 — Commercial Air Transport by Large Aeroplanes) (Amendment No. 2) Regulations 2018 and come into operation on 24 November 2018.

Amendment of regulation 68

2. Regulation 68 of the Air Navigation (121 — Commercial Air Transport by Large Aeroplanes) Regulations 2018 (G.N. No. S 444/2018) (called in these Regulations the principal Regulations) is amended by deleting paragraph (3) and substituting the following paragraph:

“(3) For every flight of a large aeroplane, the AOC holder must ensure that the load sheet for that flight contains the following information:

- (a) the date of the operation;
- (b) the aircraft registration;
- (c) the flight number;
- (d) the departure aerodrome and the destination aerodrome;

- (e) the total number of crew members;
- (f) evidence that the centre of gravity of the aeroplane is within specified limits, except when the AOC holder records this information in another document;
- (g) the actual mass of the aeroplane for the operation, including the aeroplane's actual zero fuel mass, take-off mass and landing mass for the operation;
- (h) the maximum allowable mass for the operation, including the maximum allowable zero fuel mass, take-off mass and landing mass for the operation;
- (i) the actual mass of take-off fuel and trip fuel;
- (j) the difference between the allowed traffic load mass and the actual traffic load mass;
- (k) the total number of seats in each class occupied by passengers;
- (l) the total number of passengers on board the aeroplane;
- (m) the edition number of the load sheet used for that flight, if the load sheet is in an electronic format.”.

Amendment of regulation 84

3. Regulation 84 of the principal Regulations is amended —

- (a) by deleting the words “with an MCTOM exceeding 45,500 kg or an MAPSC exceeding 60” in paragraph (1) and substituting the words “of a type described in paragraph (1A)”;
- (b) by inserting, immediately after paragraph (1), the following paragraph:
 - “(1A) The aircraft types mentioned in paragraph (1) are —
 - (a) any aeroplane with an MCTOM exceeding 54,500 kg;

- (b) any aeroplane with an MCTOM exceeding 45,500 kg and an MAPSC exceeding 19; and
- (c) any aeroplane with an MAPSC exceeding 60.”.

Amendment of regulation 116

4. Regulation 116(2) of the principal Regulations is amended by deleting the words “Flight Records” and substituting the words “Flight Recorders”.

Deletion and substitution of regulation 117

5. Regulation 117 of the principal Regulations is deleted and the following regulation substituted therefor:

“Flight recorders — flight data recorders (FDRs) and alternatives for aeroplanes

117.—(1) An AOC holder must ensure that every large aeroplane that corresponds to one of the following descriptions is equipped with a flight data recorder of the type specified for an aeroplane of that description:

- (a) for a multi-engine turbine-powered aeroplane with an MCTOM not exceeding 5,700 kg, for which the Certificate of Airworthiness was first issued on or after 1 January 1990 but before 1 January 2016 — an FDR that records at least the first 16 parameters specified in Table 1-1 of the Aviation Specifications 2 — Flight Recorders issued by the Director-General of Civil Aviation;
- (b) for a turbine-engined aeroplane with an MCTOM not exceeding 5,700 kg, for which the Certificate of Airworthiness was first issued on or after 1 January 2016 — one of the following flight data recorders:
 - (i) an FDR that records at least the first 16 parameters specified in Table 1-1 of the Aviation Specifications 2 — Flight Recorders;

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- (ii) a Class C airborne image recorder (AIR) or airborne image recording system (AIRS) that records at least the flight path and speed parameters displayed to the pilot, as defined in the Aviation Specifications 2 — Flight Recorders;
 - (iii) an aircraft data recording system (ADRS) that records at least the first 7 parameters specified in Table 1-3 of the Aviation Specifications 2 — Flight Recorders;
 - (c) for an aeroplane with an MCTOM exceeding 5,700 kg but not exceeding 27,000 kg, for which the Certificate of Airworthiness was first issued on or before 1 January 2005 — an FDR that records at least the first 16 parameters specified in Table 1-1 of the Aviation Specifications 2 — Flight Recorders;
 - (d) for an aeroplane with an MCTOM exceeding 27,000 kg, for which the Certificate of Airworthiness was first issued on or before 1 January 2005 — an FDR that records at least the first 32 parameters specified in Table 1-1 of the Aviation Specifications 2 — Flight Recorders;
 - (e) for an aeroplane with an MCTOM exceeding 5,700 kg, for which the Certificate of Airworthiness was first issued after 1 January 2005 and the application for type certificate was submitted to a Contracting State before 1 January 2023 — an FDR that records at least the first 78 parameters specified in Table 1-1 of the Aviation Specifications 2 — Flight Recorders;
 - (f) for an aeroplane with an MCTOM exceeding 5,700 kg, for which the application for type certification was first submitted to a Contracting State on or after 1 January 2023 — an FDR that records at least the first 82 parameters specified in