UNITED KINGDOM



AERONAUTICAL INFORMATION CIRCULAR

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SSR MODE S - FLIGHT PLANS AND TRANSPONDERS

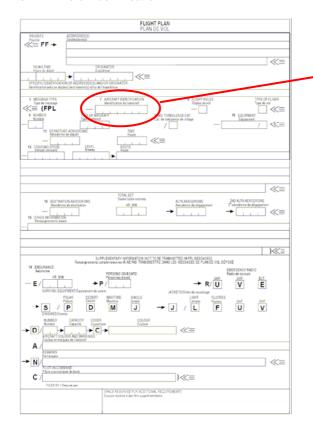
1 Introduction

- 1.1 The successful operation of SSR Mode S and, in particular, the automatic correlation of flight plans with tracks, relies upon the accuracy of the data submitted in the aircraft flight plan (FLP) as well as that entered into the aircraft transponder/FMS. If any of this information is omitted or incorrect it will have a significant impact on the effective introduction of Mode S. Further background on the operating principles for Mode S can be seen in AIC 27/2007 (Yellow 238).
- 1.2 The purpose of this Circular is to reinforce information detailed in AIC 94/2004 (Yellow 151) and to provide guidance regarding the Mode S specific fields on the FLP. The steps outlined below are detailed in ICAO Doc 4444 Air Traffic Management and ICAO Doc 8168 Aircraft Operations and must be followed precisely.

2 Flight Plans

2.1 The following diagrams show the correct method of completing Items 7 and 10 of the FLP:

Item 7 - Aircraft Identification





In the item 7 field, enter either:

The 3-letter ICAO designator for the aircraft, followed by the flight identification (eg,BAW213).

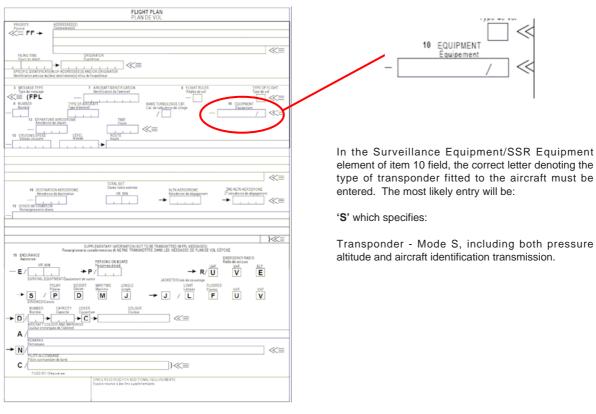
or:

The registration marking of the aircraft (eg, GIAKO)

Note: When the aircraft identification consists of less than 7 characters, no *additional* zeroes, dashes or spaces are to be inserted, either before, between or after the characters.

Note: What is entered at Item 7 must EXACTLY match what is entered in the Mode S Aircraft Identification (also known as Flight ID) in the cockpit. If it does not, ATC systems will not be able to correlate the aircraft with its stored FLP and delays will ensue.

Item 10 - Equipment



- 2.2 As alternatives to the letter 'S', the following letters are also available:
 - 'N' Nil.
 - 'A' Transponder capable of Mode A only.
 - 'C' Transponder capable of Mode A and C.
 - 'X' Transponder capable of Mode S but without either aircraft identification or pressure-altitude transmission functions.
 - 'P' Transponder capable of Mode A, C and Mode S including pressure-altitude transmissions but no aircraft identification function.
 - " Transponder capable of Mode S including aircraft identification but no pressure-altitude function.

3 Further Information

3.1 Further information or guidance may be obtained from:

Head - Surveillance and Spectrum Management Directorate of Airspace Policy Civil Aviation Authority CAA House 45-59 Kingsway London WC2B 6TE

Tel: 020-7453 6530 Fax: 020-7453 6565

Email: modes@dap.caa.co.uk http://www.caa.co.uk/modes

3.2 More general information concerning SSR Mode S in the context of the European Air Traffic Management Programme (EATMP) and access to the ECC registration process is available at the EUROCONTROL website address as follows: http://www.eurocontrol.int/mode_s/

This Circular is issued for information, guidance and necessary action.