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AIC
SERIE A

NR 04/25
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AERONAUTICAL INFORMATION CIRCULAR

SUBJECT: Use of Automatic Dependent Surveillance-Contract (ADS-C) in the Algiers Flight Information Region (FIR).

This AIC cancels and supersedes AIC A 02/08 of 03 JAN 08.

1. INTRODUCTION

1.1 This Aeronautical Information Circular informs aircraft operators equipped with **FANS 1/A** about the use of **Automatic Dependent Surveillance-Contract (ADS-C)** in Algerian airspace, which is currently operational.

1.2 The ADS-C system provides valuable data that enhances air traffic management by **improving situational awareness** for air traffic controllers.

2. SCOPE

ADS-C is fully operational throughout the Algiers FIR, aimed **at enhancing ATC situational awareness**, improving safety, and optimizing air traffic management in the FIR.

3. FLIGHT PLANNING REQUIREMENTS

Aircraft operators must indicate the availability of **FANS 1/A** equipment in their flight plans as follows:

- ✓ **Item 10b(Equipment): D1** → Indicates **ADS-C with FANS 1/A capabilities**

4. FUNCTIONALITY OF ADS-C

4.1 Contract Types:

The ADS-C system provides information under different contract types:

- a) **On-Demand Contract:** The aircraft provides information upon request from the ATC.
- b) **Periodic Contract:** The aircraft provides information at regular intervals.
- c) **Event-Based Contract:** The aircraft provides information when specific events occur, such as:
 - Change of waypoint
 - Deviation (vertical) from the flight level
 - Lateral deviation from the planned route.

4.2 ADS-C Alarms:

The ADS-C system enables the following safety nets:

- ✓ **DAIW (Danger Area Infringement Warning):** Alerts if the aircraft enters a restricted zone.
- ✓ **ARCW (ADS Report Conformance Warning):** Monitors conformance with the planned route.

- ✓ **RAM (Route Adherence Monitoring):** Monitors adherence to the planned route.
- ✓ **CLAM (Cleared Level Adherence Monitoring):** Monitors adherence to the authorized flight level.
- ✓ **APR (Automatic Position Report) :** Provides periodic position updates.

5. ADS-C IS NOT USED FOR SEPARATION

ADS-C is not used for separation of aircraft in the Algiers FIR. It is primarily used to **enhance situational awareness** for air traffic controllers, enabling better tracking of aircraft.

6. SYSTEM OPERATION

6.1 Log-on Procedure

Aircraft equipped with **FANS 1/A** must manually establish a **log-on** 15 to 30 minutes before entering the Algiers FIR by sending an **AFN (ATS Facilities Notification)** message with the code **DAAA**.

6.2 Log-off Procedure

Disconnection occurs 5 minutes after exiting the Algiers FIR unless otherwise coordinated between the pilot and air traffic controller.