



Agenda Item 6: Review of the implementation of Doc 8126 - AIS/AIM personnel competency evaluation and training

IMPLEMENTATION OF THE NEW NOTAM, SNOWTAM AND ASHTAM SERIES IN BRAZIL

(Presented by Brazil)

SUMMARY	
This working paper presents the approval of AMDT 7 of Doc 8126 by Brazil.	
References:	
<ul style="list-style-type: none">• Doc 8126• Annex 15• Report on the conclusions and recommendations of the SAM/AIM/15 meeting	
ICAO strategic objectives:	<i>A - Safety</i> <i>B - Air navigation capacity and efficiency</i>

1. Background

1.1 Taking into account AMDT 7 of ICAO Doc 8126, Brazil has established a working group (WG) composed of AIS specialists who are part of the Brazilian Airspace Control System (SISCEAB).

1.2 The working group (WG) is coordinated by the Institute of Aeronautical Cartography (ICA) and is made up by members of the Department of Airspace Control (DECEA), of the five Brazilian regional bodies and of the Air Navigation Management Centre (CGNA), which are the main providers of aeronautical data and information in the Brazilian context, with the objective of conducting specific analyses of each item of Doc 8126.

1.3 The Institute of Aeronautical Cartography responds directly to the Department of Airspace Control (DECEA), which is part of the Aeronautical Command. The Institute of Aeronautical Cartography is the Brazilian provider responsible for cartography, aeronautical information, AIM, and the development of air navigation and airspace procedures.

1.4 Figure 1 presents the structure of the Brazilian aeronautical authority (DECEA), of the AIM provider (the Institute of Aeronautical Cartography - ICA), as well as of other providers that are part of the information, training and safety oversight chain.



Figure 1 - Structure of the aeronautical authority of Brazil

1.5 Therefore, it is deemed appropriate to present a working paper to explain the way in which Brazil has been carrying out analyses for the implementation of Doc 8126.

2. Analysis and action

2.1 Regarding updates to Doc 8126, Brazil conducted a specific study of AMDT 7 of Doc 8126, through a working group (WG) composed of at least two AIS experts, representing each institution. Each meeting was attended by at least 20 people who discussed and defined the necessary steps to complete the work.

2.2 The first meeting took place in September 2022 to define the initial work and the necessary priorities.

2.3 The second meeting took place two months later, in November 2022, in which it was agreed that the restructuring of the NOTAM series had priority of application in the adaptations of Doc 8126.

2.4 The working group dynamics starts when the coordinator activates the WG meeting with dates, venues and proposed agenda of activities. The WG coordinator, in the week prior to the meeting, prepares and sends out the discussion topics and documentation so that each member of the meeting can prepare and hold discussions based on meaningful information and inputs.

2.5 At the end of the two meetings in 2022, the members of the WG defined the following tasks and stages:

a) In order to improve the selective distribution of NOTAMs and pursuant to the recommendations of Doc 8126, Brazil restructured the national NOTAM series to coincide with the space covered by a Flight Information Region (FIR). This work involved several divisions of the Institute of Aeronautical Cartography, such as the Operations Division, the Projects Division and Aeronautical Information Management Branch and the Brazilian NOF;

b) The IDS-Airnav CRONOS tool, used for the preparation, dissemination and distribution of NOTAMs, was adapted to the new series in a joint effort between the Brazilian NOF and the hired support of IDS-Airnav, developer of the tool, under the coordination of the ICA Projects Division;

c) This task involved an analysis of approximately 2,000 temporary and permanent NOTAMs that were in force, from the D and Z series, which became extinct. The main discussion was about what to do with these NOTAMs starting in February 2023, in terms of replacing them with the new series or letting the validity of the NOTAM itself extinguish them, in the case of temporary NOTAMs, or incorporating them into the AMDT, in the case of permanent NOTAMs. It was decided to keep the NOTAMs in force until their validity automatically extinguished them and they were incorporated into the AIP and ROTAER. Thus, at the end of May 2023, there were no more NOTAMs of the expired series in force;

d) As a means to disseminate the new NOTAM series, an aeronautical information circular (AIC) was issued twenty-eight days in advance, with the objective of disclosing the changes that would enter into force in February 2023. During the first half of 2023, the Brazilian AIS Products website made available for consultation all NOTAMs produced, including those of extinguished series, thus completing the first stage of adaptation of Brazil's AIS Products to AMDT 7 of Doc 8126;

e) The third meeting of the working group is scheduled for September 2023, where the action plan for the implementation of SNOWTAMs and ASHTAMs will be prepared. This plan will contain the steps to be taken to update the relevant standards for NOTAMs, SNOWTAMs and ASHTAMs, the operational impact on users, and a timetable of actions; and

f) Preparation of an action plan for making adjustments in relation to other AIS Products, such as the aeronautical information publication (AIP), based on AMDT 7 of Doc 8126.

3. **Timetable**

3.1 In order to organise the activities of the working group, the following timetable was proposed:

- a) Restructuring of the NOTAM series - February 2023;
- b) Adaptation of Brazilian legislation, Instruction of the Aeronautical Command (ICA53-1) that regulates NOTAMs, SNOWTAMs, and ASHTAMs - January 2024;
- c) Implementation of the use of SNOWTAM - February 2024;
- d) Implementation of the use of AHSTAM - February 2024; and
- e) Adaptation of the other AIS products - second half of 2024.

4. **Final considerations**

4.1 Brazil is in the process of modernising its entire database structure, with a view to fulfilling several activities foreseen in the AIS-to-AIM transition roadmap established by ICAO, such as activity P-06 "Integrated Aeronautical Information Database". Thus, the restructuring of the NOTAM series and the implementations planned for the years 2023 and 2024 are based on this new database structure, which will be linked to the modernisation of the tools used in the production of all AIS products of Brazil.

5. **Suggested action**

5.1 The Meeting is invited to learn about the Brazilian experience concerning the Brazilian-led study to review and implement AMDT 7 of Doc 8126, through a working group (WG) made up by AIS experts.