



Agenda Item 2: Review of the implementation of the Regional Air Navigation Plan

b) Review of the Implementation of Project RLA/06/901

(Presented by Brazil)

SUMMARY

The Brazilian Air Navigation Management Center (CGNA) has administrated an ATC Sectors and Airports Capacity Calculation Course to SAM Region State's representatives.

Aiming the South-American Air Traffic Flow management harmonized implementation Brazil is offering an Air Traffic Flow Management (ATFM) Course to be held in the CGNA scheduled for March, 2010.

Reference:

- SAMIG 3 meeting, Lima, 20-24 April 2009.

1. Introduction

1.1 Since August, 31 2007, the Brazilian Air Traffic Management Center (CGNA) has been activated in its full operational capacity. The CGNA has been investing significant efforts in the Human Resources preparation and in the adaptation/development of an ATFM methodology suitable to the Brazilian infrastructure conditions.

1.2 The SAM/IG/2 meeting has accepted the Brazilian developed ATC capacity calculation study aiming the establishment of a common knowledge base among the Region's States for the further development of a regional methodology for these calculations as a way to reach an unified methodology in a future multinational ATFM environment.

1.3 Following with the Regional ATM harmonized development initiative Brazil is offering an ATFM course, to be executed in March, 2010. During this course it will be presented information interchange concepts, the collaborative decision making, strategic flow planning, tactical flow management, capacity versus demand balance and the ATM community members involved in the ATFM process.

2. **Airport and ATC Sectors Capacity Calculation Course**

2.1 This course that take place in Rio de Janeiro, Brazil, from March 23 to 27 2009, was attended by 32 delegates from 10 States from the SAM Region (Bolivia, Brazil, Chile, Colombia, Ecuador, Panama, Paraguay, Peru, Uruguay and Venezuela) having the purposes of fostering the Regional ATM implementation and to support the civil aviation administrations in the establishment of the ATC sectors and aerodrome flight maximum capacity in safety conditions as required per the Doc 4444 - PANS-ATM.

2.2 The Brazilian methodology presentation had the purpose of establish a common knowledge basis about the capacity calculation techniques, enabling the debate about the restrictive factors, and the mitigation alternatives to the undesirable operational effects. This knowledge is going to be used by SAM/IG experts to develop a harmonized regional methodology.

2.3 The course included the following subjects:

- a) capacity and demand definitions;
- b) capacity determining factors;
- c) physical, theoretical and declared capacity;
- d) demand versus capacity and ATFM application in CGNA;
- e) ATC sector capacity reduction and optimization factors;
- f) workload and ATC sector capacity calculation; and
- g) calculation practice at SBGL TWR and APP-RJ.

3. **Air Traffic Flow Management Course**

3.1 During the SAM/IG/3, convened at the Lima ICAO Office, from April 20 to 24, 2009 Brazil has offered an air traffic flow management course, schedule for March 2010 and oriented to the ATFM implementation planers from each of the participant States. The offer was accepted by the Group and the States attendance can be supported under the RLA 06/09 Project sponsorship.

3.2 The course objective is to enable a general view of the ATFM factors included in the Doc 9854 (Global Air Traffic Management Operational Concept) and in the Doc. 9882 (Manual on Air Traffic Management System Requirements), discussing the Brazilian experience in the implementation, the information interchange with the users and the collaborative decision making, both during the strategic planning and during the flights tactical execution.

3.3 The course will be composed by expository classes, seminars and ATFM problem solving case studies in a CDM environment.

4. **Suggested Action**

4.1 The meeting is invited to take note of the information provided in this Paper.