



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ORGANIZACION DE AVIACION CIVIL INTERNACIONAL**

**OFICINA REGIONAL SUDAMERICANA
APARTADO 4127, LIMA 100, PERU**

**Tel.: (511) 5751646
(511) 5751476/77
Pág Web: www.lima.icao.int**

**Fax: (511) 5750974/5751479
Sitatex: LIMCAYA
E-mail: mail@lima.icao.int**

LN 3/8.6.9/5557

13 May 2002

**Subject: RLA/98/003 – First Seminar on RVSM Implementation in the CAR/SAM
Regions
(Lima, 5 to 7 August 2002)**

**Action
required: Select and nominate participants not later than 5 July 2002**

Sir,

I have the honour to communicate you the convening of the First Seminar on RVSM Implementation in the CAR/SAM Regions to be held at this Regional Office facilities from 5 to 7 August 2002, as part of the programme of activities of RLA/98/003 Regional Project on Transition to the CNS/ATM Systems in the CAR and SAM Regions, approved by the project's Coordination Committee.

This seminar has as principal objective to provide information to the States of both regions on the RVSM application and to evaluate the implementation strategy, which will be established during the Third Meeting of Air Traffic Management (ATM) Authorities and Planners of the CAR/SAM Regions (AP/ATM/3), with the purpose of ensuring an acceptable safety level of the system in the RVSM airspace of both regions.

Among the topics to be discussed are the approval process of aircraft and operators, aspects related with safety assessment, Monitoring Agency, operational considerations, air transit management and training aspects. Lecturers of wide and recognized experience in the RVSM implementation process will be participating from the Federal Aviation Administration (FAA) of the United States of America, Europe, from the SAM Region, IATA, IFALPA, IFATCA, Boeing and from the aeronautical industry. Further information on participating lecturers will be sent in due course.

In the Attachment to this letter, you will find additional information on the status of RVSM implementation in the different ICAO regions, the seminar agenda, requirements that participants should comply with, and other general information of this event.

In this regard, I am pleased to invite your administration to propose participants, taking into consideration the following financing alternatives:

- a) Fellowships of a UNDP/ICAO project approved for your country.
- b) Fellowships chargeable to a trust fund project established with your administration.
- c) Fellowships under the UNDP/ICAO Regional Project RLA/98/003, which will be granted to participating States in this project that do not count on any of the previous alternatives, on a first come first served basis, having the interested administrations to provide the air tickets to and from the host country.
- d) Own resources of your administration, in the lack of the previous alternatives.

The reservation of places will be made upon the reception of requests by this Office up to the completion of vacancies available. For this reason, I will very much appreciate if you could inform me as soon as possible if your administration will send participants, submitting, if it is the case, their duly completed ICAO fellowship nomination forms, through the UNDP Resident Representative accredited to your country, in order to receive them at this Office **not later than 5 July 2002**.

Accept, sir, the assurances of my highest consideration.



José Miguel Ceppi
Regional Director
South American Office
Lima

Enc.

**International Civil Aviation Organization
UNDP/ICAO Regional Project RLA/98/003
Transition to the CNS/ATM Systems in the CAR and SAM Regions**

**Description of the
First Seminar on RVSM Implementation in the CAR/SAM Regions**

(Lima, Perú, 5 to 7 August 2002)

ICAO NOMENCLATURE: N° 056 ATC PLN

1. INTRODUCTION

- 1.1 The constant increase of world air traffic, the operational aircraft need to fly at, or as nearest possible to, their optimum flight levels and the demand of a better utilization of air space have supported the implementation of the reduced vertical separation minimum (RVSM) of 1000 feet above FL 290 in the different ICAO regions, such as the North Atlantic, Asia-Pacific, EUR/SAM corridor of South Atlantic (SAT), in the Western Atlantic Route System (WATRS) and, in December 2004, in the continental area of the United States, which is allowing to extensively demonstrate its advantages, that, without doubt, represent the best solution to increase availability of optimum flight levels while the demanded safety levels are maintained or improved.
- 1.2 According to analysis made by the Project RLA/98/003 to principal transit flows identified by GREPECAS, in the CAR/SAM Regions it already exists some sectors of airspace, specially during “peak” periods and hours, which are already experimenting transit congestion, and, as a consequence, a significant number of aircraft do not operate at its optimum flight level, which is adversely affecting the efficiency of the air operations.
- 1.3 GREPECAS 10 (Las Palmas, Islas Canarias, Spain, October 2001), considering that the RVSM application in both regions would permit to obtain a better advantage of airspace, its repercussion in the air transport economy and the need to establish an implementation strategy in harmony with the other ICAO regions, decided that the RVSM implementation in the CAR/SAM regions be effected starting April 2004.
- 1.4 During the Fourth Coordination Meeting of Project RLA/98/003, (Lima, Perú, December 2001), it was decided to include in the work programme the preparation and execution of the conducive actions with the purpose of assisting the States in the RVSM implementation in the CAR/SAM regions and, in this regard, other connected activities were programmed:
 - a) The Third Meeting of Air Traffic Management (ATM) Authorities and Planners of the CAR/SAM Regions (AP/ATM/3), to be carried out in Lima, Perú, from 20 to 24 May 2002, where one of its study matters will be the analysis of the RVSM implementation strategy in the CAR/SAM regions; and
 - b) the First Seminar on RVSM Implementation in the CAR/SAM Regions.

2. **OBJECTIVE**

- 2.1 To provide information to States of both regions on the RVSM application.
- 2.2 To evaluate the RVSM implementation programme that was approved by the CAR/SAM Regional Planning and Implementation Group (GREPECAS) in its tenth meeting, and the implementation strategy that will be established during the AP/ATM/3 meeting, with the purpose to ensure reaching an acceptable safety level in the RVSM system of the CAR/SAM regions.

3. **CONTENTS**

- 3.1 Among the topics to be discussed are the approval process of aircraft and operators, aspects related with safety assessment, Monitoring Agency; as well as Operational considerations, Air Traffic Management and Training aspects, as shown in the enclosed Agenda.

4. **DOCUMENTATION**

- 4.1 Reference documents for the seminar are:
 - a) Doc. 9574 Implementation manual of a vertical separation minimum of 300 m (1 000 ft) between FL 290 and FL 410 inclusive.
 - b) Doc. 9689 Manual on the airspace planning methodology to determine the separation minimum.
 - c) Doc. 8733 Air Navigation Plan – South America and The Caribbean Regions.
 - d) Doc. 7030 Supplementary Regional Proceedings.
 - e) Report of the AP/ATM/3 Meeting.

5. **PLACE, DATES AND SCHEDULE**

- 5.1 The First Seminar on RVSM Implementation in the CAR/SAM Regions will be carried out at the Civil Aviation Training Centre (CIAC) of the Corporación Peruana de Aeropuertos y Aviación Comercial S. A. (CORPAC), Av. Elmer Faucett s/n, in front of the Centro Aerocomercial, International Jorge Chavez Airport, south zone, Callao, from 5 to 7 August 2002, from 09:00 to 15:00 hours.

6. **TEMPERATURE**

- 6.1 Temperature in Lima during the month of August usually varies between 15° and 21° C.

7. **LANGUAGES**

- 7.1 The seminar will be carried out in Spanish and English, with simultaneous interpretation service.

8. WHO SHOULD ATTEND

- 8.1 Participants should be air traffic management (ATM) authorities and planners of the civil aviation administrations and ATS services suppliers of the CAR and SAM regions, involved in RVSM, and users operating in both regions.
- 8.2 Participants of the administrations involved should count with experience in ATM planning (airspace structure planning) and, if possible, have participated in AP/ATM/3 meeting.

9. REGISTRATION, LOCAL TRANSPORTATION AND ACCOMODATIONS

- 9.1 Registration and hotel bookings will be made by through ICAO Regional Office concerned to the area of accreditation of the requesting State or organism upon receiving their request through the submission, as son as possible and in any event not later than 5 July 2002, of the personal data of each participant or, if it is the case, their duly completed ICAO fellowship nomination forms
- 9.2 Upon arrival at the Lima/Callao “Jorge Chavez” International Airport, participants should use the airport official taxi service for transportation to their place of accommodation. Transportation to and from hotel to the ICAO South American Regional Office will be provided during the event. On Monday 5 August, transportation will be leaving from Hostal Ejecutivo at 07:00 hours and will pass by Hostal El Doral at 07:10 hours.
- 9.3 Suggested hotels and rates, including taxes and breakfast, are the following:

Hotel	Address/Telephone/Fax	SWB US\$	DWB US\$
El Pardo Doubletree Hotel***** Miraflores	Jr. Independencia 141, Miraflores Tel. (511) 241-0410, 444-2283 Fax (511) 444-2171	77.00 Includes breakfast	77.00 buffet
Grand Hotel Miraflores*****	Av. 28 de Julio 151, Miraflores Tel. (511) 241-4647, Fax (511) 446-5518	50.00	55.00
Hostal El Doral***	Av. José Pardo 486, Miraflores Tel. (511) 242-7799, Fax (511) 446-8344	42.10	46.40
Hotel Colonial Inn***	Av. Comandante Espinar 310, Miraflores Tel. (511) 241-7471, Fax (511) 445-7587	40.00 Includes breakfast	50.00 buffet
Hostal Ejecutivo**	Av. 28 de Julio 245, Miraflores Tel. (511) 2413575, Fax (511) 444-2222	25.00	28.00

10. **REFERENCE**

10.1 ICAO South American Regional Office

P. O. Box 4127

Lima 100, PERÚ

Telephone: (511) 575-1646, 575-1477

Fax: (511) 575-1479, 575-0974

Electronic mail: mail@lima.icao.int

Web Page: www.lima.icao.int

Agenda of the First Seminar on RVSM Implementation in the CAR/SAM Regions

Monday, 5 August

- 0900-0930 Opening Seminar
- Session I - RVSM Overview**
- 0930-1000 Background
- 1000-1030 ICAO RVSM Implementation Process
- 1030-1045 Coffee Break*
- 1045-1115 ICAO Asia Pacific RVSM Task Force
- 1115-1145 ICAO CAR/SAM RVSM Task Force
- 1145-1215 Global RVSM Implementation Experience and Plans
- Session II – Airworthiness and Operational Approval Process**
- 1215-1245 Operator Approval Documentation
- 1245-1330 Lunch Break*
- 1330-1400 Airworthiness Approval
- 1400-1430 Operational Approval
- 1430-1500 State Aircraft Issues

Tuesday, 6 August

- Session III – From the Users’ Perspective**
- 0900-0930 Commercial Operators’ Perspective
- 0930-1000 Commercial Manufacturers’ Perspective
- 1000-1030 Questions and Answers
- 1030-1045 Coffee Break*
- 1045-1115 IFALPA’s Perspective
- 1115-1145 IFATCA’s Perspective
- Session IV– Safety and Airspace Monitoring**
- 1145-1215 Height Monitoring Unit (HMU) and GPS Monitoring Unit (GMU)

- 1215-1245 Safety Assessment Requirements
- 1245-1330 *Lunch Break*
- 1330-1400 Asia/Pacific Approvals Registry and Monitoring Agency (APARMO) experiences
- 1400-1430 South Atlantic Monitoring Agency (SATMA) experiences
- 1430-1500 Questions and Answers

Wednesday, 7 August

Session V – ATM and Operational Considerations

- 0900-0945 ATS procedures and training
- 0945-1015 Modifications of Automated ATC Systems due to Implementation of RVSM

1015-1030 Coffee Break

Session VI –Aircrew Procedures and Training

- 1030-1115 Flight Crew Procedures and Training: Airlines experiences

Session VII – Costs and Benefits

- 1115-1145 Cost/Benefit on RVSM Implementation

Session VIII –Lessons Learned

- 1145-1215 RVSM Procedures and Training: FAA experiences
- 1215-1245 RVSM Procedures and Training: European experiences
- 1245-1330 Lunch Break*
- 1330-1400 RVSM procedures: EUR/SAM corridor experiences
- 1400-1430 Questions and Answers
- 1430-1500 Closing Seminar