

Agenda Item 4: Tentative program of project activities for 2004

4.1 Introduction

4.1.1 Under this agenda item, the meeting reviewed the programme of activities proposed for 2004 in accordance with the objectives of project RLA/98/003.

4.1.2 In each activity to be carried out, information on the estimated cost for the project has been included in compliance with the request of the Fourth Meeting of the Coordination Committee of RLA/98/003 project carried out in Lima, Peru, from 4 to 5 December 2001.

4.1.3 A summary of the program of activities for 2004, is presented in **Appendix B** to this agenda item.

4.2 ATM issues

5.2.1 Activities for RVSM, RNAV and RNP implementation

5.2.1.1 Activity 1.2.3 of RLA/98/003 project is focused to the preparation of seminars and activity 1.3.1 to the preparation of an action plan for CNS/ATM systems implementation in the Region, including RNAV and the implementation of the reduced vertical separation minimum and the required navigation performance.

5.2.1.2 In this respect, the meeting took note that RLA/98/003 project has been successfully supporting the activities towards the implementation of the above mentioned ATM elements and functions.

5.2.1.3 RVSM, RNAV routes and RNP implementation is a complex process that requires a careful and well-coordinated plan to ensure a timely, cost-efficient and evolutionary transition.

5.2.1.4 In order to carry out and ensure the continuity of RVSM, RNAV routes and RNP Implementation in the CAR/SAM Regions, Civil Aviation Administrations will require the maximum availability of trained specialists and with enough information regarding the referred implementation processes.

5.2.1.5 Therefore, with the purpose of achieving a successful and timely implementation of such CNS/ATM elements, it is required and proposed to carry out the following activities:

- a) **Seventh Meeting/workshop of Air Traffic Management authorities and planners for RVSM implementation in the CAR/SAM Regions – AP/ATM/7 (RVSM)**

Objective/Contents

The main objective of the AP/ATM/7 Meeting/Workshop will be:

- To continue providing the assistance and coordination with the States/International Organizations, RVSM Task Force and its respective Working Groups, which objective is to execute the Action Plan for RVSM Implementation in the CAR/SAM Regions.

Place/Date/Duration

The AP/ATM/7 Meeting/workshop (RVSM) will be held in Rio de Janeiro, Brazil, from 10 to 12 March 2004.

Estimated cost of the activity

The cost of this activity including trip and DSA for personnel, translation of material, 2 fellowships per participant State plus 5 fellowships envisaged for non-participating States and project administrative costs is of **US\$46,300.00** approximately.

b) Eighth Meeting/Workshop of ATM authorities and planners for RVSM, RNAV routes and RNP Implementation – AP/ATM/8 (RVSM-RNAV-RNP)

Objective/Contents

The main objectives of the AP/ATM/8 Meeting/Workshop will be as follows:

- Continue assisting and coordinating with the parties involved in the Action Plan for RVSM Implementation in the CAR/SAM Regions;
- Formulate an Action Plan for RNP Implementation in the CAR/SAM Regions, based on the RNP Application Strategy approved by the Third Meeting of the GREPECAS ATM/CNS Subgroup;
- Continue with the assistance to the States/International Organizations in the follow-up and evaluation subsequent to the RNP 10 Pre-operational Implementation in the Santiago de Chile/Lima segment of routes UL 780 and UL 302; and
- Evaluate the status of RNAV routes Implementation included in the CAR/SAM Air Navigation Plan – Basic Vol. of the RNAV routes through the Amendment agreed during the AP/ATM/6 Meeting/Workshop.

Place/Date/Duration

The site of the AP/ATM/8 (RVSM-RNAV-RNP) Meeting/Workshop will be determined in due time and the dates foreseen are from 5 to 9 July 2004, with a duration of five days.

Estimated cost of the activity

The cost of this activity including trip and DSA for personnel, translation of material, 2 fellowships per participant State plus 5 fellowships envisaged for non-participating States and project administrative costs is of **US\$66,700.00** approximately.

c) Seminar on Air Navigation Systems Automation

Based on the new ATM operational concept, the purpose of this seminar is to disseminate the aeronautical applications in a CNS/ATM environment, as well as its interoperability to support the ATM.

Objective/Contents

To provide civil aviation administrations the latest information to regarding the automation processes of the air navigation services to support the ATM. The contents of the seminar will consist of the following topics:

- Digital Communications support platform
- ATN Applications (COM)
 - CPDLC
 - AIDC
 - AMHS
 - ADS
 - D-ATIS
- ATM Functionality with ATN applications and others
- Actual processing systems
- Flight plans processing
- Radar data processing
- AIS Applications
 - NOTAM Procedures
 - Pre-flight reports
 - AIS Database
- MET Applications

Place/Date/Duration

This seminar will be held in Lima, Peru y was postponed to be carried out during the first semester of 2004, with a duration of five days.

Estimated cost of the activity

The cost of this activity including trip and DSA for personnel, translation of material, 2 fellowships per participant State plus 5 fellowships envisaged for non-participating States and project administrative costs is of **US\$61,700.00** approximately.

d) Ninth Meeting/Workshop of ATM authorities and planners for RVSM, RNAV routes and RNP Implementation – AP/ATM/9 (RVSM-RNAV-RNP)

The main objectives of the AP/ATM/9 Meeting/Workshop will be as follows:

- Continue assisting and coordinating with the parties involved in the Action Plan for RVSM Implementation in the CAR/SAM Regions;

- Continue with the assistance to the States/International Organizations in the follow-up and evaluation subsequent to the RNP 10 Pre-operational Implementation in the Santiago de Chile/Lima segment of routes UL 780 and UL 302; and
- Evaluate the status of RNAV routes Implementation included in the CAR/SAM Air Navigation Plan – Basic Vol. of the RNAV routes through the Amendment agreed during the AP/ATM/6 Meeting/Workshop.

Place/Date/Duration

The site of the AP/ATM/9 (RVSM-RNAV-RNP) Meeting/Workshop will be determined in due time and the dates foreseen are from 22 to 26 November 2004, with a duration of five days, however, and in accordance with the circumstances of RVSM implementation programme, this dates could vary with regard to the activities of such programme.

Estimated cost of the activity

The cost of this activity including trip and DSA for personnel, translation of material, 2 fellowships per participant State plus 5 fellowships envisaged for non-participating States and project administrative costs is of **US\$66,700.00** approximately.

4.2.2 ATM Expert

4.2.2.1 As requested by the Tenth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS), RLA/98/003 Project is actively supporting the complex and laborious activities being developed for RVSM, RNAV routes and RNP Implementation in the CAR/SAM Regions. Additionally, GREPECAS/11 Meeting has requested the States/International Organizations to develop their respective National Plans for RNAV Routes Implementation and, as a result of such plans, the implementation proposals being presented require exhaustive analysis and intensive coordinations in order to enable a harmonious implementation and avoid a negative impact in the ATS Routes network structure.

4.2.2.2 Likewise, the new RNAV routes are being implemented with regional analysis and coordination, contributing to the stability of the ATS Routes Network of the CAR/SAM Regions, which will enable more accurate analyses and studies to develop an RNP implementation strategy in both regions. In this sense, a proposal for amendment to the ATM Evolution Tables is being developed, which will reflect RNP Regional Plans and will be presented at the Third Meeting of the GREPECAS ATM/CNS Subgroup.

4.2.2.3 RVSM Implementation in the CAR/SAM Regions has considerably increased its rhythm and will continue increasing as the date foreseen for its implementation gets closer, 20 January 2005. In this sense, 2004 will be the clue, in view that during this period several extremely important tasks will have to be finalized in order to achieve the success of such implementation process.

4.2.2.4 In view of the above, in order to continue with the development and execution of such implementation programmes and plans, as well as with the related activities, an ATM expert is required with exclusive and continuous dedication to assist the ICAO Regular Programme in the referred implementation processes, contributing to the timely and successful achievement of the objectives foreseen by GREPECAS, according to the terms of reference presented in **Appendix B**.

4.3 **Institutional Aspects activities**

4.3.1 The work programme proposed for the development of the activities of Immediate Objective No. 2 regarding institutional aspects remains as approved by the Fifth Meeting of the Corodination Committee.

Second Seminar on Institutional and Economic Considerations, Implementation options and Familiarization with CNS/ATM planning tools

Objective and contents

In this seminar, the maximum benefits that could only been obtained through the establishment of an ATM Globl System, where all the airspaces will be treated as a seamless airspace will be analyzed. This planning, besides the high cost and high capacity of the new technology, requires of arrangements very different to those used in the provision of conventional services. To that effect, the integration, rationalization and harmonization of the systems will require an operational cooperation, administrative and financial level never experienced before.

Therefore, in order to evaluate the different possible arrangements, available and used in different parts of the world, international organizations that have adopted original institutional arrangements will be invited in order to inform the participants on their experiences in the establishment and utilization of such arragnements, developing presentations on the benefits and difficulties, as well as on the steps to follow towards the transition, including legal aspects.

Likewise, the studies developed by the project in this respect will be presented and it is expected that the States carry out presentations on their experiences and expectations on the matter.

Place/Date/Duration

This seminar will be held in Brazil, together with the GREPECAS Meeting of the Institutional Aspects Task Force, both events will have a duration of six days and will be carried out before GREPECAS/12 Meeting, tentatively in May 2004.

Estimated cost of the activity

The cost of this activity including trip and DSA for personnel, translation of material, 2 fellowships per participant State plus 5 fellowships envisaged for non-participating States and project administrative costs is of **US\$68,900.00** approximately.

Appendix A

International Civil Aviation Organization UNDP/ICAO RLA/98/003 REGIONAL PROJECT Transition to CNS/ATM Systems in the CAR/SAM Regions

Tentative Program of Project activities for 2004

- 1) Seventh Meeting/Workshop of ATM authorities and planners for RVSM Implementation in the CAR/SAM Regions (AP/ATM/7-RVSM) (Rio de Janeiro, Brazil, 10 to 12 March 2004).
- 2) Eighth Meeting/Workshop of ATM authorities and planners for RVSM, RNAV routes and RNP implementation in the CAR/SAM Regions (AP/ATM/8-RVSM-RNAV-RNP) (5 - 9 July 2004, place to be determined).
- 3) Seminar on future air navigation systems automation (one week in Lima, Peru, in November 2004).
- 4) Ninth Meeting/Workshop of ATM authorities and planners for RVSM, RNAV routes and RNP implementation in the CAR/SAM Regions (AP/ATM/9-RVSM-RNAV-RNP) (22 -26 November 2004, place to be determined).
- 5) Second Seminar on Institutional and Economic Considerations, Implementation options and Familiarization with CNS/ATM planning tools (Brazil, May 2004).

Appendix B

International Civil Aviation Organization UNDP/ICAO REGIONAL PROJECT RLA/98/003 Transition to the CNS/ATM Systems in the CAR/SAM Regions

ATM Expert

Terms of reference

Provide assistance to the ICAO Regular Programme in RVSM, RNAV routes and RNP Implementation in the CAR/SAM Regions.

Advise and provide assistance in the organization, coordination of requirements and preparation of the working material to carry out the Seventh, Eighth and Ninth Meeting/Workshop of ATM authorities and planners for RVSM, RNAV routes and RNP Implementation in the CAR and SAM Regions – AP/ATM/7, AP/ATM/8 and AP/ATM/9 (RVSM-RNAV-RNP).

Work Programme

- Provide assistance to the ICAO Regular Programme and to the States/International Organizations in RNAV routes Implementation in the CAR/SAM Regions;
- Provide assistance to the ICAO Regular Programme and to the States/International Organizations in RVSM Implementation in the CAR/SAM Regions;
- Provide assistance to the ICAO Regular Programme and to the States/International Organizations in the follow up and evaluation subsequent to the RNP 10 Pre-operational Implementation in the Santiago de Chile/Lima segment of routes UL 780 and UL 302; for their definitive implementation:
- Provide assistance to the ICAO Regular Programme and to the States/International Organizations in the development and elaboration of the proposal for amendment on RNP to the CAR/SAM Air Navigation Plan, Vol. II – FASID.
- Advise and provide assistance in the organization, coordination and preparation of requirements and working material for the convening and realization of the II Seminar on RVSM Implementation in the CAR/SAM Regions;
- Advise and provide assistance in the organization, coordination and preparation of requirements, documentation and working material for the convening and realization of the AP/ATM/7 Meeting/Workshop (RVSM);
- Advise and provide assistance in the organization, coordination and preparation of requirements, documentation and working material for the convening and realization of the AP/ATM/8 Meeting/Workshop (RVSM-RNAV-RNP);

- Advise and provide assistance in the organization, coordination and preparation of requirements, documentation and working material for the convening and realization of the AP/ATM/9 Meeting/Workshop (RVSM-RNAV-RNP).

Situation foreseen at the end of the activities

At the end of the period of activities of the ATM expert, it is expected that all the tasks, activities and coordinations foreseen for 2004 be fulfilled, with the service providers, users and international organizations involved, in order to enable a successful RVSM, RNAV routes and RNP implementation in the CAR/SAM Regions, according with GREPECAS planning and requirements.

Periods of the activities

Due to the nature of the ATM Expert activities in assisting the ICAO Regular Programme, they are developed in a continuous basis; the programming of such activities should also be considered as a continuous task during the period corresponding to the year 2004.