



RVSM/TF/2
WP/02
10/06/02

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ATM COMMITTEE OF THE GREPECAS ATM/CNS/ SUBGROUP**

**SECOND MEETING OF THE RVSM TASK FORCE
(San Jose dos Campos, Sao Paulo Brazil, 8 to 12 July 2002)**

(Presented by Roberto Arca, RVSM/TF Rapporteur)

Agenda Item 1: Analysis of the Conclusions on RVSM matters adopted in the Third Meeting/workshop of Air Traffic Management Authorities and Planners.

Summary

This working paper is presented to the Meeting in order to analyze the Conclusions on RVSM adopted in the AP/ATM/3 and take appropriate action on this matter.

References:

- Third Meeting/workshop of Air Traffic Management Authorities and Planners, Lima, Peru. 20-24 May 2002.

1. BACKGROUND

1.1 During the Third Meeting/workshop of Air Traffic Management Authorities and Planners the future working methodology of RVSM Task Force was included in Conclusion AP/ATM/3/21.

1.2 Conclusion AP/ATM/3/21 recommends the establishment of three working groups to carry out the tasks on airworthiness and RVSM approval of aircraft and operators, air traffic management and ATC operations and monitoring of RVSM airspace and operations.

1.3 The Appendix A to this working paper describes the tasks to be assigned to those subgroups.

2. DISCUSSION

2.1. Taking into account the aforementioned Conclusion AP/ATM/3/21 and in view of the experience gained in other ICAO regions with this working methodology, it would be desirable to establish three

working groups as subgroups of the RVSM Task Force to help develop, in its specific areas, the tasks we need to complete a successful implementation in the CAR/SAM regions.

2.2. The Task Force needs to analyze the Appendix A to this working paper and amended if necessary before the subgroups start its work.

3. RECOMMENDATION

3.1 The Task Force is invited to:

- a) Analyze the Appendix A,
- b) Make the suggestions to improve and update the work programme taking into account that some requirements could be already met; and
- c) Create three Subgroups as follows:
 - Aircraft and Operators approval.
 - Monitoring of RVSM airspace and Operations.
 - ATM and ATC operations.

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RVSM/TF WORKING GROUPS

Working group: **Airworthiness and RVSM aircraft and operators approval**

Work programme:

- a) To examine and harmonize the existing material related to airworthiness and RVSM aircraft and operators approval,
- b) To initiate the actions it deems advisable for amending the aeronautical charts to reflect RVSM navigation requirements,
- c) To examine and adapt the guidance material on ACAS for use by operators and recommend the equipment upgrading it deems necessary,
- d) To review the data provided by the entity made responsible for evaluating the height-keeping performance and make the necessary recommendations,
- e) To continuously monitor the RVSM capability of the approved fleet, the percentage of aircraft that fail to meet the requirements and the percentage of State aircraft that would be exempt from RVSM requirements,
- f) To prepare the material required by the RVSM web site administrator.

Working group: **Air traffic management and ATC operations**

Work programme:

- a) To examine the RVSM scenario in both regions and the material on this matter prepared by other regions, adjust it, harmonize it and make recommendations regarding:
- b) To develop turbulence mitigation procedures
- c) To establish necessary transition areas and related procedures,
- d) To develop contingency procedures,
- e) To develop an ATC guidance handbook
- f) To develop guidance material for establishing the work load and identifying the need for simulations for specific traffic flows,
- g) To recommend guidelines for airspace sectorization
- h) To study the impact of RVSM implementation on ATFM,
- i) To recommend a mechanism for receiving, collating and analyzing information concerning ATC or pilot operational errors,
- j) To recommend the minimum requirements for RVSM training of ATC staff and RVSM simulations,
- k) To prepare material for aeronautical information publications and AIP supplements related to RVSM implementation,

- l) To assist in the development of procedures for the switchover day, and
- m) To prepare material at the request of the RVSM web site administrator.

Working group: **Monitoring of RVSM airspace and operations**

Work programme:

- a) To recommend the procedures to be applied for the implementation, use of, download, delivery and analysis of data from the GMU or HMU, or both systems if necessary,
- b) To review height-keeping monitoring data before and after implementation,
- c) To identify those elements which might be seriously affecting safety assessment,
- d) To establish a method for investigating errors that could endanger the target level of safety (TLS) and study and propose solutions for reducing risks,
- e) To closely monitor the vertical occupancies level in terms of traffic density, passing
- f) frequency, etc.
- g) To regularly analyze data to ensure that the mathematical collision risk model remains within the agreed parameters,
- h) To design a suitable methodology that takes into account the effects of the estimated traffic increase and the changes in occupancy levels and collision risk,
- i) To help prepare the procedures for the switchover day, and
- j) To prepare the material at the request of the RVSM web site administrator.