

# **INTERNATIONAL CIVIL AVIATION ORGANIZATION**



## **RVSM/RNAV/RNP TF/2 MEETING REPORT**

**(Dakar, 19 – 21 November 2003)**

**Prepared by the APIRG RVSM/RNAV/RNP TASK FORCE**

The RVSM/RNAV/RNP Task Force is a Task Force of the AFI Planning and Implementation Regional Group (APIRG).

Its Reports are therefore submitted to APIRG through the ATS/AIS/SAR Sub-Group for review and action.

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

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## **PART I - HISTORY OF THE MEETING**

### **1. Introduction**

1.1 The Second meeting of the RVSM/RNAV/RNP Task Force (RVSM/RNAV/RNP TF/2) was convened pursuant to AFI/7 RAN Meeting Recommendations 5/7, 5/17 and APIRG/13 Decision 13/58 by the International Civil Aviation Organization at the ICAO WACAF Office, Dakar, from 19 to 21 November 2003.

1.2 The meeting was opened by Mr. A. Cheiffou, ICAO Regional Director of the ICAO Western and Central African Office. He emphasized the preliminary studies which have to be done prior to the implementation of the required procedures aimed at increasing or improving the capacity of a given airspace in order to satisfy the demand of ever growing air traffic. In that regard, the Regional Director emphasized the importance of the RVSM/RNAV/RNP Task Force meeting being organized pursuant to APIRG/13 Decision 13/58 he recalled APIRG 14 Conclusion 14/21 relating to the development an AFI RVSM strategy/action plan within specific target dates and wished the members a fruitful deliberation with a view to further enhance the safety of air navigation in the Region.

#### **Secretariat**

1.3 Mr. Apolo Kharuga, Regional Officer, Air Traffic Management of the ICAO Nairobi Regional Office, acted as the Secretary of the meeting. He was assisted by Messrs. Ibrahim Auyo, Brou Konan, George Baldeh, ROs/ATM of the ICAO Dakar Offices and Vic Van Der Westhuizen, ICAO RVSM Consultant.

### **2. Attendance**

2.1 The meeting was attended by 13 experts from 8 States and 3 International Organizations namely ASECNA, IATA and IFALPA. The list of participants is given at **Appendix A** to this report.

### **3. Working Language**

3.1 The meeting was conducted in the English language only.

#### **4. Agenda**

4.1. The following Agenda was adopted:

**Agenda Item 1** Review of the Terms of Reference and work programme of the implementation Task Force and Review and follow-up of the conclusions and decisions of the First Meeting of the RVSM/RNAV/RNP Task Force.

**Agenda Item 2** Review of the RVSM SIP report.

**Agenda Item 3** Development of Implementation strategy/action plan for RVSM.

**Agenda Item 4** ATC operations

4.1 Development of ATM operational manual

4.2 Development of RVSM standard training programme model for pilots and Controllers.

4.1 Identify airspace and determine the limits where RVSM will be implemented.

**Agenda Item 5. Legislation**

5.1 Develop a sample national Legislation on RVSM.

5.2 Develop a sample national RVSM plan.

5.3 Develop a sample AIC, NOTAM, AIP Supplement on RVSM

5.4 Develop guidance material for airworthiness and operational approval.

5.5 Develop guidance material on the approval of aircraft and operators for flight in the RVSM airspace.

**Agenda Item 6. Safety assessment and monitoring**

6.1 Develop a sample deviation investigation form.

6.2 Develop a sample format for the report of large altitude deviation.

6.3 Safety Assessment.

6.4 Develop a sample format for data collection.

**Agenda Item 7. Develop Doc 7030 amendment.**

**Agenda Item 8. Any other business.**

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## 5. Conclusions

5.1 The Task Force recorded its actions in the form of Conclusions.

### Summary of Conclusions

Number	Title
Conclusion 2/1:	<p><b>RVSM monitoring agency for AFI Region</b></p> <p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) The task of monitoring safety in conjunction with implementation of RVSM in the AFI Region was assigned to South Africa (ATNS) taking into account the Terms of Reference and Work Programme of the AFI RVSM at Part II paragraph 1.2 (below) to this report.</li> <li>b) South Africa takes appropriate action to establish the AFI RMA as soon as possible but later than 31 March 2004.</li> <li>c) The AFI monitoring agency, duties and responsibilities are at <b>Appendix B.</b></li> </ul>
Conclusion 2/2:	<p><b>Safety assessment</b></p> <p><b>That:</b></p> <p>AFI RMA, carryout safety assessment as soon as possible but not later than 31 March 2004.</p>
Conclusion 2/3:	<p><b>Civil/military coordination</b></p> <p><b>That:</b></p> <p>In order to ensure the safe and coordinated implementation of RVSM in the AFI Region, States should ensure that the military aviation authorities are fully involved in the planning and implementation process.</p>
Conclusion 2/4	<p><b>Nomination of a National RVSM programme manager</b></p> <p><b>That:</b></p> <p>States/service providers nominate, as soon as possible, but not later than 31 December 2003, a National RVSM Programme Manager who will be responsible for ensuring that the proper mechanism be put in place for the safe implementation of the RVSM programme and will also act as the focal point or contact person.</p>

Number	Title
Conclusion 2/5:	<p><b>Reporting of data for monitoring and/or carrying out safety assessment</b></p> <p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) All States institute procedures for reporting of data, incidents and conditions necessary for performing the collision risk calculations prerequisite for RVSM implementation to the AFI <b>monitoring</b> agency. The data will include, but not necessarily be limited to: <ul style="list-style-type: none"> <li>i) Height deviations of 300 ft or more</li> <li>ii) Total number of IFR movements for each month</li> <li>iii) The average time per movement spent in the level band FL 290 to FL 410</li> <li>iv) ATC/ATC coordination failures</li> <li>v) Turbulence; and</li> <li>vi) Traffic data.</li> </ul> </li> <li>b) All States institute procedures for reporting of data, incidents and conditions necessary for performing the collision risk calculations prerequisite for RVSM implementation to the AFI monitoring agency.</li> <li>c) AFI Regional monitoring agency should use the reporting format at <b>Appendix C</b>.</li> </ul>
Conclusion 2/6:	<p><b>Implementation of RVSM in the AFI Region</b></p> <p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) All RVSM implementation preparations works (safety, assessment, training) be done taking into consideration the FL band between 290 and 410 inclusive.</li> <li>b) The final decision for implementation be taken at the informal coordination meeting taking into account status of readiness of States and operators.</li> <li>c) Implementation of RVSM in the AFI Region be harmonized and coordinated with the implementation time frames of adjacent Regions.</li> </ul>

Number	Title
Conclusion 2/7:	<p><b>Training of all personnel involved with the implementation of RVSM in the AFI Region</b></p> <p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) ICAO and IATA explore the possibility of assisting States of the AFI Region through a Special Implementation Project (SIP) for training of personnel involved with the implementation of RVSM in the AFI Region.</li> <li>b) Seminars/Workshops be organized in the Region for training of air traffic services personnel in the RVSM field.</li> <li>c) States having difficulties in implementing RVSM implementation programme, may either individually or in group explore the possibility of seeking outside expertise.</li> <li>d) ASECNA/ATNS develop a harmonized training material for consideration by the RVSM ITF not later than 31 March 2004.</li> </ul>
Conclusion 2/8:	<p><b>Guidance material for Airworthiness and Operational Approval</b></p> <p><b>That:</b></p> <p>States in the AFI Region be urged to include in their national legislation and regulations publish the Airworthiness and Operational Approval process for aircraft and operators intending to operate within a designated RVSM airspace based on provisions of ICAO Annex Part 1 Chapt 7 para. 7.2.3 and the guidance material contained in both FAA interim guidance 91-RVSM and/or JAA Temporary Guidance Leaflet (TGL) N°6. (<b>Appendix D</b> and <b>E</b> refers respectively)</p>
Conclusion 2/9:	<p><b>Enforcement in national legislation</b></p> <p><b>That :</b></p> <p><b>States take the appropriate measure in order to:</b></p> <ul style="list-style-type: none"> <li>a) publish an AIC informing the users of their intention to implement RVSM; and</li> <li>b) include the necessary provisions in their national legislation (AIPs).</li> <li>c) ICAO Regional Office concerned circulate to States the Sample AIC, NOTAM and AIP Supplement on RVSM. <b>Appendix F</b> and <b>G</b> refers.</li> </ul>



Number	Title
<b>Conclusion 2/10:</b>	<p><b>Amendment to ICAO Doc. 7030</b></p> <p><b>That:</b></p> <p>ICAO initiates as appropriate, an amendment proposal to the AFI SUPPs to include relevant provisions for RVSM and RNP implementation in the AFI Region.</p>
<b>Conclusion 2/11:</b>	<p><b>Participation of representatives of States and international organizations involved in the implementation of RVSM Approval Process</b></p> <p><b>That:</b></p> <p>Representatives of States with experience in the RVSM approval process of aircraft and operators, be invited to attend the future meetings of the RVSM Task Force.</p>
<b>Conclusion 2/12:</b>	<p><b>Funding of the RVSM implementation programme</b></p> <p><b>That:</b></p> <p>National Governments, Regulatory bodies, operators, service providers and other stakeholders be granted budgetary allocations for acquisitions and other activities necessary for ensuring that all the requirements be met in a timely manner in order to safely implement RVSM in the AFI Region</p>
<b>Conclusion 2/13:</b>	<p><b>ATC Manual for an RVSM in AFI Region</b></p> <p><b>That:</b></p> <p>ATC Manual for an RVSM in AFI Region at <b>Appendix H</b> to this report be circulated to States for action.</p>
<b>Conclusion 2/14:</b>	<p><b>Development of an implementation plan for RVSM</b></p> <p><b>That:</b></p> <p>The material at <b>Appendix I</b> constitutes the AFI/RVSM Implementation Strategy/Action Plan be circulated to States for comments and responses be received by ICAO not later than 31 March 2004.</p>















































































## **5.1 National RVSM Program Manager (NPM)**

States shall appoint National RVSM Program Manager. These managers will be responsible for the day-to-day management of the National RVSM Program, coordinate RVSM activities at national level and provide required inputs to the Program Office.

## **5.2 RVSM Program Structure**

The RVSM Program will include many stakeholder activities up to and including the implementation of RVSM, as well as activities following implementation. Identified activities should be developed into a Work Schedule. The Work Schedule can be summarized into five sub-programs (See Attachment B).

### **5.2.1 Sub-Program 1 - RVSM Program Management.**

The main deliverable is the RVSM Plan and full Stakeholder commitment to the implementation of RVSM at the agreed date. It includes program management activities throughout the required period, in particular progress monitoring and progress/status reports to States and the ARTF.

### **5.2.2 Sub-Program 2 - Aircraft Operations and Airworthiness**

To ensure timely RVSM approvals for Aircraft Operations and Airworthiness by States, technical, operational and regulatory directives shall be available for airspace users. It will also assist and monitor the approval process. Aircraft height-keeping accuracy must be verified through the operation of a height-monitoring infrastructure system. The monitoring program will provide the technical data to confirm that safety objectives are met.

### **5.2.3 Sub-Program 3 – Air Traffic Management (ATM)**

This sub-program will ensure that all ATS provider units are well prepared and ready for the introduction of RVSM on the agreed date. Tasks should be identified to allow States to make airspace restructuring, introduce RVSM Procedures. Modify ATC systems, provide ATC Training and resolve legislative issues, etc.

### **5.2.4 Sub-Program 4 - RVSM Safety Assurance**

RVSM safety assurance constitutes the safety assessments necessary prior to implementation, just after implementation and at the end of the RVSM Program to ensure that the agreed safety objectives are met. This includes amongst others the development of an agreed RVSM safety policy, and identifies the possible need for States to prepare RVSM safety cases.

### **5.2.5 Sub-Program 5 - Regional Monitoring Agency (RMA)**

It is recognized that there is a requirement for monitoring of aircraft height keeping performance as part of RVSM implementation program. An AFI Regional Monitoring Agency needs to be established by the AFI RVSM Task Force to provide Safety Oversight Services in connection with implementation and continued safe use of RVSM within the designated airspace.

## **6 RVSM Program Schedule**

A schedule for all the activities must be developed in conjunction with the various stakeholders and, in particular, the RVSM National Program Managers (NPM). The schedule will serve as the benchmark against which the program progress will be assessed. (*See Attachment C*)

## **7. AFI RVSM COST**

It is the responsibility of stakeholders to identify and gain approval for their own budget and resource requirements.

## **8. CONCLUSION**

Implementation planning should be progressed as a priority item. A program for implementation in the earliest possible time frame should be actively pursued, with implementation planning being carried out by the ARTF under the direction of APIRG. The RVSM Program should be fully coordinated by the Program Office for the entire area of future application, and should take full account of the work carried out by the ARTF.

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## ATTACHMENT A

## AFI RVSM IMPLEMENTATION STRATEGY/ACTION PLAN

ID	Description	Target Date	Status	Resources
	<b>Program Management</b>			
1	Agree on structure of TF to enable efficient handling of specialist technical tasks	21 November 2003	Action completed.	Secretariat Support Team: ASECNA South Africa, IATA, Nigeria, Tunisia
2	Consideration of the RVSM SIP Report	21 November 2003	Completed	RVSM/ITF2
3	Develop Doc 7030 amendment	21 November 2003	Completed	ICAO
4	RVSM/RNAV/RNP TF/2 Meeting	21 November 2003	Completed	RVSM/ITF2
5.	Identify resources for performing specialist technical tasks	21 November 2003	Action completed	RVSM/ITF2
6	Investigate methods of funding any outside assistance required	31 December 2003	In progress.	ICAO/IATA
7.	Finalize the RVSM Implementation Strategy/Action Plan	31 December 2003	In progress	ICAO
8	Circulate RVSM Implementation Strategy/Action Plan for comments from States	5 January 2004	In progress	ICAO
9	Obtain and analyze the comments from States on RVSM implementation Strategy/Action Plan	31 March 2004	In progress	States, ICAO RVSM/ITF3
10	Develop a regional RVSM informational campaign	31 March 2004	In Progress	IACO/IATA/States
11	RVSM Seminar/Workshops/RVSM ITF3	5 April 2004	In Progress	ICAO
12	RVSM/ITF/4	June 2004	In progress	ICAO/RVSM ITF/4
13	Undertake coordination and harmonization of procedures with adjacent Regions.	30 August 2004	In progress	ICAO and AFI RMA
14	Confirm target AIRAC implementation date (AIP Supplement to be published)	30 September 2004	In progress	Informal coordination meeting/ RVSM ITF/5

<b>ID</b>	<b>Description</b>	<b>Target Date</b>	<b>Status</b>	<b>Resources</b>
15	Prepare/maintain regional status report detailing RVSM implementation plans and circulate to States	30 September 2004	In progress	ICAO
16	RVSM/ITF/5	September/October 2004	In progress	ICAO/RVSM ITF/5
17	Go/No-Go decision	30 September 2004	In Progress	Informal meeting of all Stakeholders ICAO RVSM/TF/5
18	Publish Trigger NOTAM	25 November 2004	In progress	States
	<b>Aircraft Operations and Airworthiness</b>			
19	Develop regional OPS & Airworthiness RVSM Guidance Material	21 November 2003	Completed	ICAO
20	Develop regional RVSM Guidance Material on Pilot Training	31 January 2004	In Progress	States/ICAO/IATA
21	Develop AFI OPS Approval Process	30 July 2004	In progress	RMA/ ICAO
22	Promulgate on the guideline operational approval process	1 July 2004	In progress	States, ICAO
23	Monitor operator approval process	30 July 2004	In progress	RMA
	<b>Air Traffic Management</b>			
24	Develop National RVSM plan	31 March 2004	In progress	States, ICAO
25	Develop ATC Manual for RVSM in AFI Region.	31 March 2004	In progress	South Africa/ASECNA and Nigeria
26	Determine the limits of RVSM airspace	31 March 2004	In progress	States/ICAO
27	Develop Regional ATC Training Guidance Material	31 March 2004	In Progress	South Africa/AESNA/Nigeria
28	Evaluate the need for simulations to assess ATC workload and possible need for airspace/air route/Sector changes	31 March 2004	In progress	Senegal, ASECNA/Nigeria, South Africa
29	Identify issues to be addressed in Letters of Agreement	31 March 2004	In progress	Tunisia
30	Military aviation preparation	31 March 2004	In progress	States, ICAO
31	Develop National RVSM Legislation	31 March 2004	In progress	States, ICAO
32	States assess the impact of RVSM implementation on controller automation systems	30 April 2004	In progress	States

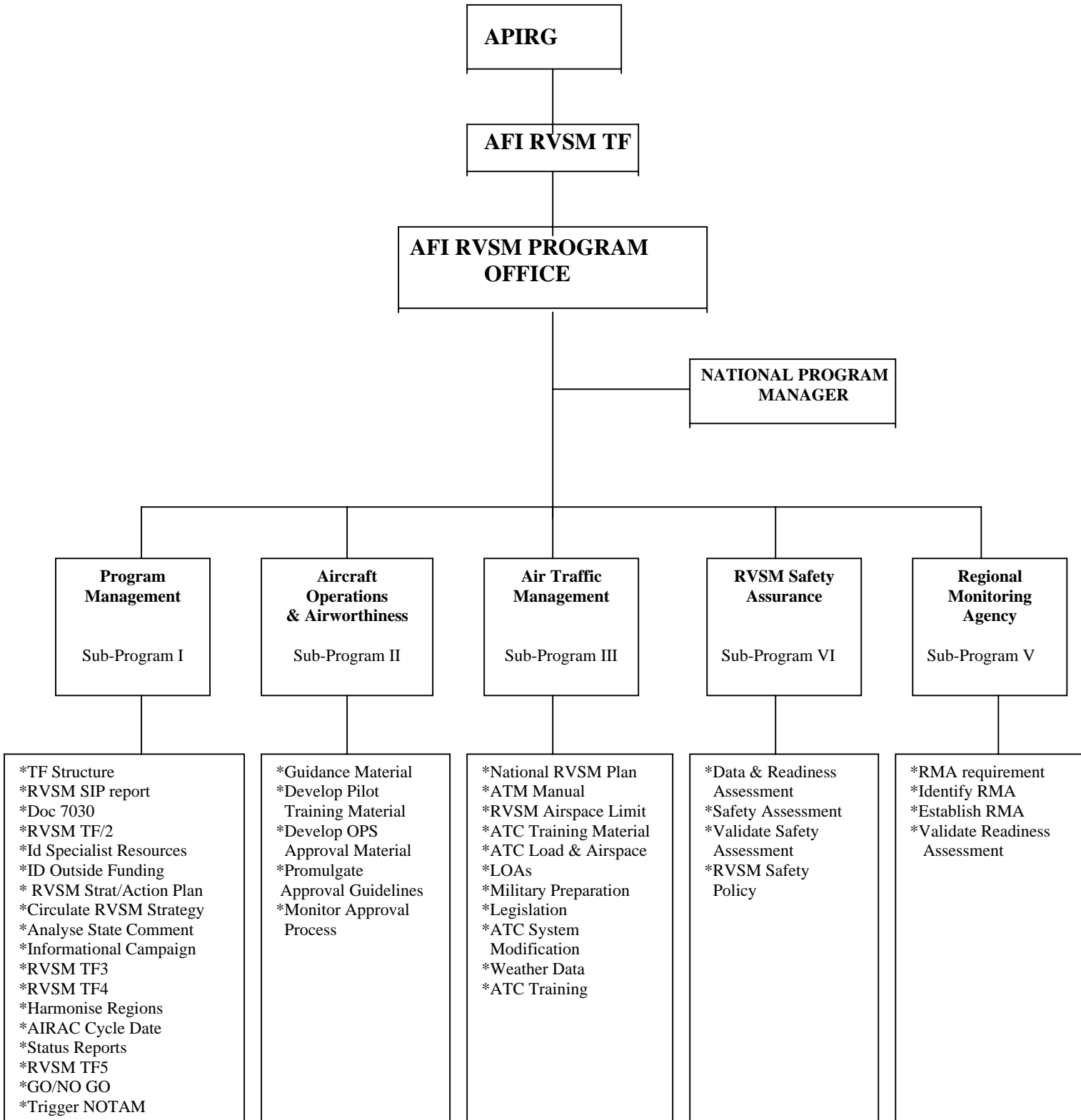


<b>ID</b>	<b>Description</b>	<b>Target Date</b>	<b>Status</b>	<b>Resources</b>
	and plan for upgrades/ modifications			
33	Collect weather and turbulence data for analysis	31 June 2004	In progress	AFI RMA ICAO/States
34	States to conduct local RVSM training for air traffic controllers.	31 June 2004	In progress	States
	<b>RVSM Safety Assurance</b>			
35	Conduct preliminary data collection and readiness assessment	31 March 2004	In progress	RMA – ICAO
36	Complete RVSM Safety assessment	31 March 2004	In progress	AFI RMA/ICAO
37	Validate safety assessment	30 June 2004	In progress	RVSM ITF/4
38	Develop AFI RVSM Safety Policy	31 March 2004	In progress	RVSM/ITF3
	<b>Regional Monitoring Agency (RMA)</b>			
39	Evaluate options for setting up AFI Regional monitoring agency	21 November 2003	Completed	RVSM/ITF2
40	Identify an AFI RMA	21 November 2003	Completed	RVSM/ITF/2
41	Establish an AFI RMA.	31 March 2004	In progress	South Africa/ICAO
42	Validate implementation readiness assessment	31 July 2004	In progress	ICAO, RMA

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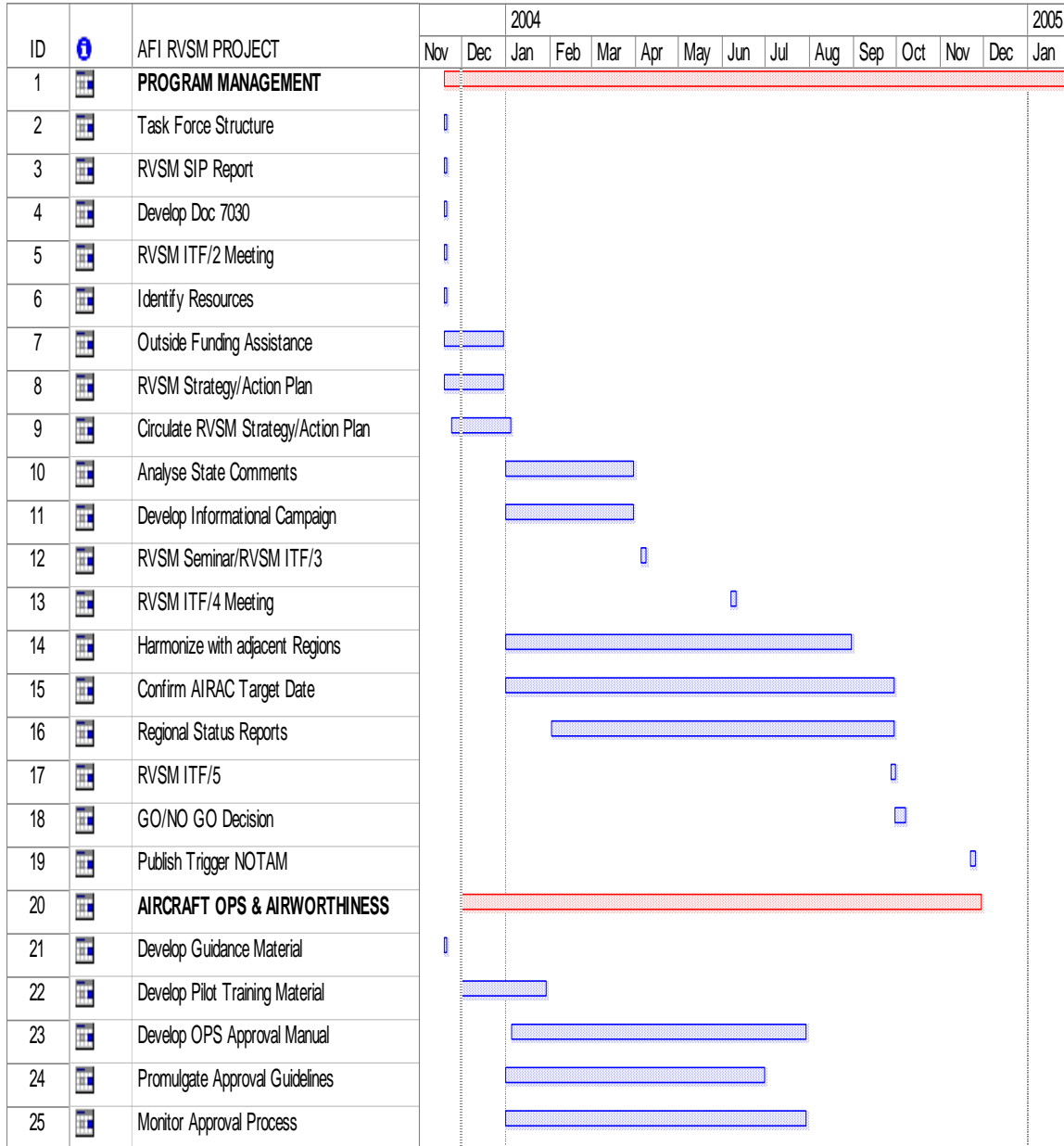
**ATTACHMENT B**

**AFI RVSM PROGRAM**



Attachment C

**DRAFT SCHEDULE: AFI RVSM IMPLEMENTATION**



ID	i	AFI RVSM PROJECT	2004												2005		
			Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
26		<b>AIR TRAFFIC MANAGEMENT</b>															
27		Develop National Plan															
28		Develop ATM Manual															
29		Determine RVSM Airspace Limits															
30		Develop ATC Training Material															
31		Evaluate ATC Load & Airspace Changes															
32		Identify LOA requirements															
33		Military Aviation Preparation															
34		Develop National RVSM Legislation															
35		Evaluate ATC System Modifications															
36		Collect Weather Data															
37		Conduct ATC Training															
38		<b>RVSM SAFETY</b>															
39		Data & Readiness Assessment															
40		Complete Safety Assessment															
41		Validate Safety Assessment															
42		Develop RVSM Safety Policy															
43		<b>REGIONAL MONITORING AGENCY</b>															
44		Evaluate RMA Requirement															
45		Identify RMA															
46		Establish AFI RMA															
47		Validate Readiness Assessment															

- END -

**Reference Documents on RVSM**

Documents	Explanation	Language	Web site / URL
<b>Reference Documents</b>			
<p>Joint Aviation Authority (JAA) Temporary Guidance Leaflet (TGL N°6).</p>	<p>TGL N°6 Revision 1- Guidance material on the approval of aircraft and operators flight in airspace above flight level 290 where a 300m (1,000ft) vertical separation minimum is applied.</p>	<p>English</p>	<p><a href="http://www.eur-rvsm.com/documents/TGL6rev1.pdf">http://www.eur-rvsm.com/documents/TGL6rev1.pdf</a></p>
<p>FAA documents RVSM Approval Checklist - US Operators (01 May 02)</p> <p>RVSM Approval Checklist - Non-US Operators (01 May 02)</p> <p>Example Operator RVSM Application (17 Feb 99)</p> <p>Interim Guidance Material on the Approval of Operators/Aircraft for RVSM Operations 91-RVSM with Change 1 (30 June 99)(Complete RVSM Guidance Material with updated changes).</p>	<p>RVSM Aircraft and Operator Approval Documentation- documents and guidance related to RVSM aircraft and operator approval.</p>	<p>English</p>	<p><a href="http://www.faa.gov/ats/ato/150_docs/91RVSM_CH1.doc">http://www.faa.gov/ats/ato/150_docs/91RVSM_CH1.doc</a></p>

Documents	Explanation	Language	Web site / URL
ICAO Doc 7030/4 Regional Supplementary Procedures amendment for EUR RVSM (requirements and procedures).	This Doc 7030/4 amendment was approved by the ICAO Council on 23 November 2000.	English	<a href="http://www.eur-rvsm.com/documents/ApprovedE99-33Doc7030amendment.pdf">http://www.eur-rvsm.com/documents/ApprovedE99-33Doc7030amendment.pdf</a>
Master Plan-European Reduced Vertical Separation Minimum Programme	This EUR RVSM Master Plan has been endorsed in 1999 by all Programme participants. It describes the general programme history, organization, key dates and associated responsibilities.	English	<a href="http://www.eur-rvsm.com/documents/A041.pdf">http://www.eur-rvsm.com/documents/A041.pdf</a>
ATC Manual for a Reduced Vertical Separation Minimum (RVSM) in Europe-Version 2.0.	Whilst the English version is the only official version, two language versions are also provided.	English French	<a href="http://www.eur-rvsm.com/documents/ATCManualV2_0.pdf">http://www.eur-rvsm.com/documents/ATCManualV2_0.pdf</a>
<b>Safety</b>			
EUR-RVSM Pre-Implementation Safety Case Edition 2.0 of 14 August 2001.	This document constitutes the EUROCONTROL Pre-Implementation Safety Case (PISC) for the RVSM Programme.	English	<a href="http://www.eur-rvsm.com/documents/safety/EURRVSMPISCV2014AUG2001.pdf">http://www.eur-rvsm.com/documents/safety/EURRVSMPISCV2014AUG2001.pdf</a>
Functional Hazard Assessment Results of 12 February 2001.	This document contains the results of the Functional Hazard Assessment (FHA) for the EUR RVSM Programme conducted during the last quarter of 2000.	English	<a href="http://www.eur-rvsm.com/documents/safety/RVSMFHAV1012FEB2001.pdf">http://www.eur-rvsm.com/documents/safety/RVSMFHAV1012FEB2001.pdf</a>
National Safety Plan	Guidance material to develop national safety plans.	English	<a href="http://www.eur-rvsm.com/documents/safety/GuidancetoStatesJune01.pdf">http://www.eur-rvsm.com/documents/safety/GuidancetoStatesJune01.pdf</a>

Documents	Explanation	Language	Web site / URL
EUR RVSM Safety Policy Document	The Reduced Vertical Separation Minimum (RVSM) operational concept, sets out the Safety Policy European RVSM programme, lists the safety objectives and provides a high-level description of the deliverables of the RVSM Safety Sub-Programme.	English	<a href="http://www.eur-rvsm.com/documents/safety/A573SafetyPolicyDocV1_0.pdf">http://www.eur-rvsm.com/documents/safety/A573SafetyPolicyDocV1_0.pdf</a>
<b>Wake Vortices</b>			
The Effect of RVSM on Wake	EUROCONTROL has sponsored a Vortex Turbulence study into the effects RVSM would have on the occurrence of turbulence due to wake vortex encounters. From that page, the full report including programme response is also available for download, as well as the Wake Turbulence Report Form.	English	<a href="http://www.eur-rvsm.com/documents/WakeVortexAugust2001.pdf">http://www.eur-rvsm.com/documents/WakeVortexAugust2001.pdf</a>
<b>RVSM Approval Requirements – Training</b>			
Flight Crew Training and Associated RVSM Operational considerations	This brief provides guidance for RVSM operational considerations.	English	<a href="http://www.eur-rvsm.com/documents/RVSMFlightCrewtraining&amp;operationalconsiderations.pdf">http://www.eur-rvsm.com/documents/RVSMFlightCrewtraining&amp;operationalconsiderations.pdf</a>

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