



# RVSM Documentation Page

- “RVSM Documentation” webpage provides guidance for operators developing applications for RVSM authority and for inspectors that have to evaluate them
- Please forward suggestions and criticisms to Robert Swain and Roy Grimes
- We want to make it as useful and as user friendly as possible

# FAA RVSM Homepage

- Address: <http://www.faa.gov/ats/ato/rvsm1.htm>
  
- RVSM Homepage provides overview and/or links to:
  - North Atlantic (NAT) RVSM
  - Asia/Pacific RVSM
  - Western Atlantic (WATRS) RVSM
  - European RVSM
  - U.S. Domestic RVSM (DRVSM)
  - Middle East RVSM
  
- Homepage links to “RVSM Documentation” page

# RVSM

## Reduced Vertical Separation Minimum

NAT  
RVSM

Asia Pacific  
RVSM

WATRS  
RVSM

Domestic  
RVSM

Europe  
RVSM

Middle East  
RVSM

CAR/SAM  
RVSM

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The goal of RVSM is to reduce the vertical separation above flight level (FL) 290 from the current 2000-ft minimum to 1000-ft minimum. This will allow aircraft to safely fly more optimum profiles, gain fuel savings and increase airspace capacity. The process of safely changing this separation standard requires a study to assess the actual performance of airspace users under the current separation (2000-ft) and potential performance under the new standard (1000-ft). In 1988, the ICAO Review of General Concept of Separation Panel (RGCSP) completed this study and concluded that safe implementation of the 1000-ft separation standard was technically feasible

### NAT RVSM

- **Phase I:** FL330-370 March 27, 1997
- **Phase II:** FL310-390 October 8, 1998
- **Phase III:** FL290-410 January 24, 2002

### Asia Pacific RVSM

- **Pacific:**  
FL 290-390 February 24, 2000  
FL 290-410 October 5, 2000  
\*FL 410 is available for non-RVSM approved flights
- **South China Sea:**  
February 21, 2002

### RVSM Documentation



[RVSM Aircraft and Operator Approval Documentation - documents and guidance related to RVSM aircraft and operator approval](#)



The U.S. Domestic RVSM Program is a key element of the FAA's National Airspace System (NAS) Operational Evolution Plan (OEP).  
[Click here to visit the DRVSM Website](#)

# RVSM Documentation Page

## Table of Contents

- Getting Started: Checklists/Job Aids
- Frequently Asked Questions (FAQ) – Applicable to All Operators
- Contacts
- Documents Applicable to All RVSM Approvals
- General/Business Aviation Aircraft/Operator Documents
- Large Transport Aircraft/Operator Documents
- Monitoring Requirements and Procedures
- Registration on RVSM Approvals Databases

# RVSM Documentation Page Content (cont.)

→ Area of Operations Specific Information

→ Operational policy/procedures for:

- 1 Asia/Pacific Ocean
- 2 Domestic US RVSM (DRVSM) (under development)
- 3 Europe
- 4 North Atlantic (NAT)
- 5 West Atlantic Route System (WATRS)

# Getting Started Section

- RVSM Approval Checklist – US Operators
  - Developing Part 91 checklist
- RVSM Approval Checklist – Non-US Operators
- Checklists contain items that an operator must address to obtain FAA RVSM authority with...  
  
references to applicable documents

# FAQ's Applicable to All Operators

→ Plan to post Frequently Asked Questions (FAQ) in June

# Contacts

- Aircraft Manufacturers
- FAA Regional and Hq Focal Points
- Considering adding Flight Standards Field Office Points of Contact

# Documents Applicable To All RVSM Approvals

- Interim Guidance 91-RVSM
  - Paragraph 11 provides process overview
- Example Operator Application for RVSM Authority
  - Developing Part 91 example application package
- MMEL Policy Letter
- Starting Operations in New-to-the-Operator Area of Operations
- TCAS Documents
- FAA Inspector Handbook Guidance
- Link to 91.706 and Part 91 Appendix G

# General/Business Aviation Aircraft

- List of Engineering Packages for Business Aviation type aircraft
- Part 91 FAQ- under development
- HBGA 99-22 (Letters of Authorization (LOA) for Special Use Airspace)
  - Plan 8700.1 LOA Notice update in June

# Large Transport Aircraft Docs

- List of Large Transport Aircraft Engineering Packages
- Dispatcher Guidance

# Monitoring Requirements and Procedures

- Instructions for Using Minimum Monitoring Charts and Procedures from Different Regions
  
- (New) Monitoring Procedures for US Operators
  - One document for HMU and GMU procedures
  
- (New) North American RVSM Minimum Monitoring Requirements
  
- Minimum Monitoring Requirements for Different Areas of Operation – note there is ICAO effort to harmonize

# Registration on RVSM Approvals Databases

- FAA RVSM Approvals Databases –
  - For US operators - explanation of PTRS inputs to register US aircraft/operators on US RVSM Approvals Database
  
- Civil Aviation Authority Action for Non-US Operators
  - Instructions or links to North American Approvals Registry and Monitoring Organization (NAARMO) and other regions' databases

# Area of Operations Specific Information

- Section contains operational policy and procedures for specific areas of operation
- Asia/Pacific, Domestic US (under development), Europe, North Atlantic, West Atlantic
- Examples of area of operations differences:
  - Guidance for contingencies such as engine loss are more detailed for oceanic vs. continental ops
  - Pacific/NAT does, Europe does not allow Non-RVSM aircraft to climb/descend through RVSM airspace

# Planning and Preparation

- ➔ 1. Review the RVSM Documentation Webpage to determine document location and availability
- ➔ 2. Read IG 91-RVSM paragraph 11 for overview of the operational approval process
- ➔ 3. Review RVSM Approvals Checklist to establish content of operator's application for authorization and reference documents
- ➔ 4. Avionics Inspectors read 8300.10, Chapter 5 (scheduled for June publication)

# Planning and Preparation (cont.)

- 5. All Inspectors: HBAT 99-11A/HBGA 99-17A, Paragraph 5J for PTRS codes
- 6. GA operations and avionics inspectors read HBGA 99-22 on Part 91 Letters of Authorization
- 7. For Part 121/125/121: review OpSpecs paragraphs B046 and D092
- 8. Review RVSM Documentation webpage for Example Operator Applications and Manuals

# Near Term Webpage Work

- Need to finalize existing drafts:
  
- Part 91 Operational Approval Checklist/Job Aid
- Example Part 91 Operator Application
- Example Part 91 Operations Manual
- Example Maintenance Manual
- Publish 8300.10, Chap 5
- Display FAQs
- Update HBAT 99-11A/HBGA 99-17A

# NAARMO

- North American Approvals Registry and Monitoring Organization (NAARMO)
  - NAARMO focus is on Non-US operators
  - AFS field offices will not generally work with NAARMO
  - “Monitoring Procedures for US Operators” – NAARMO listed as contact for monitoring questions
  - For Non-US operators – NAARMO is contact for Database registration and for North American monitoring
  - [Link from RVSM Homepage or RVSM Documentation webpage](#)
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[NAARMO Documentation](#) | [Contact](#) | [Home](#)



**NAARMO**  
North American Approvals Registry  
and Monitoring Organization







## NAARMO

North American Approvals Registry  
and Monitoring Organization

The North American Approvals Registry and Monitoring Organization (NAARMO) has been established at the FAA Technical Center in Atlantic City, New Jersey to support implementation and continued safe use of the Reduced Vertical Separation Minimum (RVSM). As endorsed by the International Civil Aviation Organization (ICAO), the RVSM is a 1000-ft. separation standard applied between FL290 - FL410 inclusive.

The functions of the NAARMO include establishment and maintenance of a database of State RVSM approvals, administration of systems to monitor aircraft height keeping performance, safety assessments and related safety oversight period.

There are two private sectors assisting the NAARMO in providing the GPS Monitoring System (GMS) as means for an operator to complete aircraft height keeping performance monitoring requirements in connection with State RVSM approval. An operator wishing to pursue further the provision of monitoring services is advised to contact CSSI Inc. or ARINC.



**NAARMO Documentation**

Links
<a href="#">RVSM</a>
<a href="#">RVSM Documentation</a>
<a href="#">Domestic RVSM</a>
<a href="#">Nav Canada</a>
<a href="#">✉ Email NAARMO</a>

[Accessibility Assistance](#) | [Comments or questions about this site](#)

# Conclusion

- FAA RVSM Webpage is an invaluable tool to inform inspectors and operators
- We plan to continue to update and enhance it
- Please forward comments and criticisms to Robert Swain and Roy Grimes