



*International Civil Aviation Organization*

**The Thirteenth Meeting of the Regional Airspace Safety Monitoring  
Advisory Group (RASMAG/13)**

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**Agenda Item 2: Reports from Asia/Pacific RMAs and EMAs**

**ASSESSMENT OF NON-STATE-APPROVED OPERATORS USING PACIFIC  
RVSM AIRSPACE**

(Presented by Pacific Approvals Registry and Monitoring Organization (PARMO))

**SUMMARY**

This working paper presents an assessment of non-State-approved operators using the Reduced Vertical Separation Minimum (RVSM) airspace overseen by PARMO in the Pacific and a portion of North East Asia for the period of December 2009.

**1. Introduction**

1.1 The Pacific Approvals Registry and Monitoring Organization (PARMO), a service provided by the U.S. Federal Aviation Administration's Technical Center, serves as the regional monitoring agency (RMA) for Pacific and for a portion of North East Asia airspace.

1.2 As part of the duties and responsibilities of an RMA (reference 1), the PARMO performs regular checks on the operator compliance with State approval requirements in Pacific and North East airspace where the RVSM is applied.

1.3 The purpose of this paper is to provide an assessment of operators who identified themselves as having State RVSM approval but for whom a record of RVSM approval was not found during the data collection period of December 2009.

**2. Traffic Sample Data**

2.1 The PARMO requests an annual one-month traffic movement sample in addition to all of the large height deviation reports from the ATS providers in Pacific and North East Asia airspace. Table 1 lists all of the Flight Information Regions (FIRs) in the Pacific and North East Asia airspace for which the PARMO is the responsible RMA, the corresponding State and the status of the receipt of the requested data.

2.2 As indicated in Table 1, the traffic sample data (TSD) for December 2009 for Pacific and North East Asia airspace was received from all except one of the FIR's under PARMO responsibility.

State	FIR Name	Status
Fiji	Nadi	Received
New Zealand	Auckland	Received
Republic of Korea	Incheon	Received
Tahiti	Tahiti	Not Received
United States	Oakland	Received
	Anchorage	Received

**Table 1:** Summary of December 2009 Traffic Sample Data for the PARMO

### 3. Assessment of Non-State-Approved Operators Using Pacific and North East Asia Airspace

3.1 This section provides a summary of operator compliance with State approval requirements in Pacific and North East airspace where the RVSM is applied. This assessment is carried out using the one-month samples of Pacific and North East Asia traffic movement data collected during December 2009.

3.2 The importance of timely notification by States of operator approval status to RMAs is emphasized by the results presented in this section.

3.3 All civil aircraft operations observed in each sample were compared against the collective approvals database from January 2010. The operator-aircraft combinations identified as asserting approval for operations in RVSM airspace (“/W” or “/Q” in Field 10 of the ICAO flight plan) found in the traffic data, were cross-examined with the collective approvals database. Any operation for which an RVSM approval was not found is placed on a list for further examination.

3.4 Appendix A of this report contains the detailed summary of the analysis. The operator-aircraft combinations identified in Appendix A are still under investigation.

3.5 Experience has shown that the primary systematic reason for failure to match operations and approvals is a delay in State notification of the approval status of some operators to the appropriate RMA. This situation should be remedied in the future because of the widespread application of RVSM throughout the Region.

### 4. Summary and Conclusions

4.1 PARMO has begun an initial examination into the non-state approved operators using Pacific and portions of North East Asia RVSM airspace based on traffic samples from December 2009. Further investigation into the operations identified in the study will be performed to ensure that a lag in the RVSM approval data was not responsible for the lack of approval.

### 5. Actions by the Meeting

5.1 The meeting is invited to note the results of the airspace safety oversight presented in this working paper.

### References

1. *Handbook for a Regional Monitoring Agency Supporting Implementation and Continued Safe Use of the Reduced Vertical Separation Minimum: RMA Handbook*, International Civil Aviation Organization, August 2003 Edition.

**Appendix A**  
**Summary of the Assessment of Non-State-Approved Operators Using Pacific and a Portion of North East Asia RVSM Airspace Based on Traffic Samples from December 2009**

A1. Table A1 presents a summary of the operations in the December 2009 Anchorage Oceanic FIR traffic sample for which RVSM approvals were not found in the January 2010 combined RVSM approvals database. There is one unique general aviation operator-aircraft type combination accounting for 2 operations for which RVSM approvals were not found. The PARMO has not yet completed the investigation into these operations.

<b>Agency Name / Registration Number</b>	<b>Aircraft Type</b>	<b>Number of Observations in Sample</b>
Emirates (UAE)	B744	2

**Table A1.** Operations in the 2009 Anchorage FIR Traffic Sample for Which RVSM Approvals Were Not Found

A2. Table A2 presents a summary of the operations in the December 2009 Auckland FIR traffic sample for which RVSM approvals were not found in the January 2010 combined RVSM approvals database. There is one unique operator-aircraft type combination accounting for 18 operations for which RVSM approvals were not found. The PARMO has not yet completed the investigation into these operations.

<b>Agency Name / Registration Number</b>	<b>Aircraft Type</b>	<b>Number of Observations in the Sample</b>
Air Vanuatu (AVN)	B738	18

**Table A2.** Operations in the 2009 Auckland FIR Traffic Sample for Which RVSM Approvals Were Not Found

A3. Table A3 presents a summary of the operations in the December 2009 Incheon FIR traffic sample for which RVSM approvals were not found in the January 2010 combined RVSM approvals database. There are 7 unique operator-aircraft type combinations accounting for 101 operations for which RVSM approvals were not found. The PARMO has not yet completed the investigation into these operations.

<b>Agency Name / Registration Number</b>	<b>Aircraft Type</b>	<b>Number of Observations in Sample</b>
Mongolian Airlines (MGL)	B738	54
Sakhalinskije Aviatrassy (SHU)	B732	11
Vietnam Airlines (HVN)	A333	10
Mongolian Airlines (MGL)	A310	9
Vladivostok Air (VLK)	T204	8
Sakhalinskije Aviatrassy (SHU)	B735	7
Vladivostok Air (VLK)	T154	2

**Table A3.** Operations in the 2009 Incheon FIR Traffic Sample for Which RVSM Approvals Were Not Found

A4. Table A4 presents a summary of the operations in the December 2009 Nadi FIR traffic sample for which RVSM approvals were not found in the January 2010 combined RVSM approvals database. There are 3 unique operator-aircraft type combinations accounting for 92 operations for which RVSM approvals were not found. The PARMO has not yet completed the investigation into these operations.

<b>Agency Name / Registration Number</b>	<b>Aircraft Type</b>	<b>Number of Observations in the Sample</b>
Air Vanuatu (AVN)	B738	86
VHJCX	LJ35	5
Air Caledonie International (ACI)	B722	1

**Table A4.** Operations in the 2009 Nadi FIR Traffic Sample for Which RVSM Approvals Were Not Found

A5. Table A5 presents a summary of the operations in the December 2009 Oakland FIR traffic sample for which RVSM approvals were not found in the January 2010 combined RVSM approvals database. There are 5 unique operator-aircraft type combinations accounting for 8 operations for which RVSM approvals were not found. The PARMO has not yet completed the investigation into these operations.

<b>Agency Name / Registration Number</b>	<b>Aircraft Type</b>	<b>Number of Observations in Sample</b>
XAUKF	LJ35	3
XAVIH	B733	2
XAFRI	C650	1
XAJJJ	LJ35	1
XARBV	H25B	1

**Table A5.** Operations in the 2009 Oakland FIR Traffic Sample for Which RVSM Approvals Were Not Found