



International Civil Aviation Organization

ICAO

**Thirtieth Meeting of the Regional Airspace Safety Monitoring
Advisory Group (RASMAG/30)**

Bangkok, Thailand, 14 – 17 July 2025

Agenda Item 5: Airspace Safety Monitoring Activities/Requirements in the Asia/Pacific Region

PARMO RVSM LONG TERM HEIGHT MONITORING BURDEN

(Presented by PARMO)

SUMMARY

This paper presents an assessment of the monitoring burden associated with the long-term height monitoring requirements for airframes for which PARMO is the responsible Regional Monitoring Agency (RMA). The PARMO approvals 31 May 2025 were used to assess the monitoring burden.

1. INTRODUCTION

1.1 The Pacific Approvals Registry and Monitoring Organization (PARMO), a service provided by the U.S. Federal Aviation Administration's William J. Hughes Technical Center since 2001, serves as the regional monitoring agency (RMA) for the airspace in the Pacific and a portion of Northeast Asia.

1.2 To meet the ICAO Annex 6 Long Term Height Monitoring (LTHM) requirements, PARMO maintains a database of approvals and height monitoring history for aircraft registered within States under PARMO responsibility (Cook Islands, Fiji/Tonga, Kiribati, Marshal Islands, Micronesia (Federated States of), New Zealand, Republic of Korea, and Samoa). This paper provides the PARMO monitoring burden based on the approvals contained within the PARMO approvals database

2. DISCUSSION

2.1 The PARMO approvals database as of 31 May 2025 was examined to determine the current PARMO monitoring burden. First, the approvals for the countries under PARMO responsibility were compiled. Then, each airframe having a current full approval was paired with the appropriate monitoring category by applying the most current version of the Minimum Monitoring Requirements (MMR) table (as of 14 June 2024). Any aircraft types missing from the current MMR table were assigned to Category 3.

2.2 The total number of unique airframes identified as having a full RVSM approval from a State of registry under PARMO responsibility as of 31 May 2025 was **546**, with a resultant monitoring burden of **127** and a total of **8** aircraft not successfully monitored within the past two years. This total may include airframes under the 1,000-hour monitoring requirement. **Table 1** provides a summation by State of Registry of airframes that require monitoring due to having no successful monitoring record within two years as of 31 May 2025. For a more detailed list of the Monitoring Burden per State, see **Attachment A**.

Table 1. Summary of PARMO Monitoring Burden

State	Total # of Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Airframes Not Monitored within two years as of 31 May 2025
Cook Islands	1	1	0
Fiji/Tonga	14	8	0
Kiribati	0	0	0
Marshal Islands	0	0	0
Micronesia	0	0	0
New Zealand	95	28	4
Republic of Korea	436	90	4
Samoa	0	0	0
Total	546	127	8

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate

ATTACHMENT A

Monitoring Burden per State

State	MONGRP	MONCAT	Fleet	Burden Metric	Burden
Cook Islands	C550-II	2	1	1	0
			1	1	0
State	MONGRP	MONCAT	Fleet	Burden Metric	Burden
Fiji/Tonga	A350	1	1	1	0
	A330	1	4	2	0
	A350	1	3	2	0
	B38M	1	5	2	0
	B737NX	1	1	1	0
			14	8	0
State	MONGRP	MONCAT	Fleet	Burden Metric	Burden
New Zealand	B737CL	1	1	1	0
	C510	1	1	1	0
	A20N	1	18	2	0
	A320	1	17	2	0
	B773	1	10	2	0
	B787	1	14	2	0
	F2TH	1	1	1	0
	C680	1	1	1	0
	B737CL	1	15	2	0
	PC24	1	1	1	1
	CL604	1	1	1	0
	LJ60	1	1	1	1
	C560	1	1	1	1
	C56X	1	1	1	0
	E50P	1	1	1	0
	C510	1	1	1	0
	C510	1	1	1	0
	C680	1	1	1	0
	BE30	2	1	1	0
	BE40	1	1	1	0
	BE30	2	1	1	1
	B737NX	1	5	2	0
			95	28	4

State	MONGRP	MONCAT	Fleet	Burden Metric	Burden
Republic of Korea	A320	1	6	2	0
	A20N	1	7	2	0
	A320	1	16	2	0
	B737NX	1	4	2	0
	A320	1	4	2	0
	B787	1	6	2	0
	A20N	1	10	2	0
	A320	1	15	2	0
	A330	1	14	2	0
	A350	1	15	2	0
	A380	1	6	2	0
	B744-10	1	12	2	0
	B767	1	2	2	0
	B772	1	9	2	0
	B38M	1	5	2	0
	B737NX	1	11	2	0
	C525	1	1	1	1
	B737NX	1	1	1	0
	GLF6	1	1	1	0
	B737NX	1	1	1	0
	B737NX	1	3	2	0
	B38M	1	3	2	0
	B737NX	1	39	2	0
	B38M	1	5	2	0
	B737NX	1	22	2	0
	B772	1	4	2	0
	C525	1	1	1	1
	A20N	1	16	2	0
	A330	1	23	2	0
	A380	1	8	2	0
	B38M	1	6	2	0
	B737NX	1	18	2	0
	B744-10	1	5	2	0
	B748	1	13	2	0
	B772	1	17	2	0
	B773	1	29	2	0
	B787	1	15	2	0
	B78X	1	8	2	0
	BCS1	1	10	2	0
	GLEX	1	1	1	0
	GLF6	1	1	1	0
	GLF6	1	1	1	0

State	MONGRP	MONCAT	Fleet	Burden Metric	Burden
	A320	1	1	1	0
	GLF6	1	1	1	0
	A330	1	8	2	0
	B38M	1	2	2	0
	B737NX	1	24	2	0
	B773	1	2	2	2
	A330	1	2	2	0
	B737NX	1	2	2	0
			436	90	4
		Total	546	127	8

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