



ICAO

International Civil Aviation Organization

Twenty-Eighth Meeting of the Regional Airspace Safety Monitoring Advisory Group (RASMAG/28)

Bangkok, Thailand, 21 – 24 August 2023

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

**CHINA RMA ASSESSMENT OF PBCS AND NON-RVSM APPROVED AIRCRAFT**

(Presented by China RMA)

**SUMMARY**

This paper presents the assessment of non-RVSM approved aircraft checked of flight plan data against the combined global RVSM approval database, and Chinese PBCS approved aircraft based on China RMA’s approval database. The RVSM & PBCS approval data as of June 2023 were used for the assessment.

**1. INTRODUCTION**

1.1 China RMA is assigned the task to provide a list of aircraft with possible records of non-approved operation within its responsible airspace.

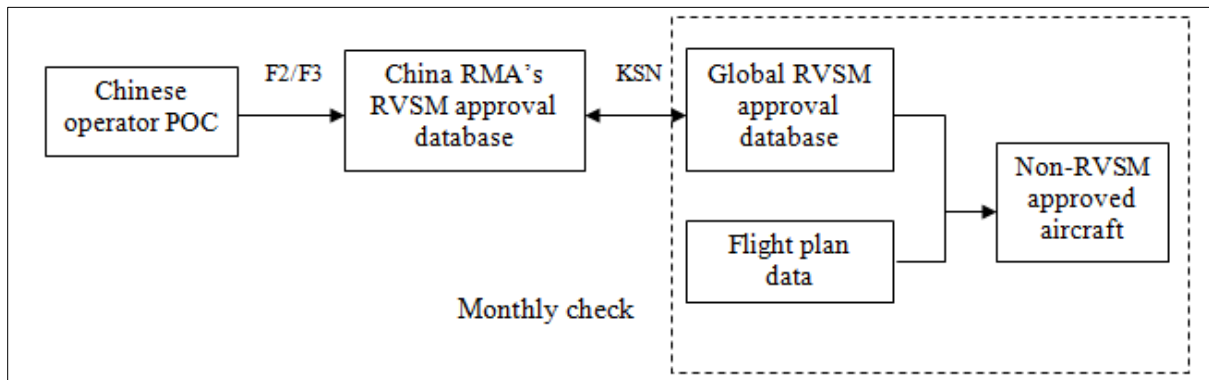
1.2 Each year since 2012, China RMA provides a list of possible non-approved aircraft to the RASMAG meeting. Beginning from 2022, China RMA was authorized to collect and manage the PBCS approval data for Lanzhou and Xinjiang FIRs, and soon began the of PBCS approval sharing.

1.3 This paper introduces the approval validation process for RVSM and PBCS as adopted by the China RMA.

**2. DISCUSSION**

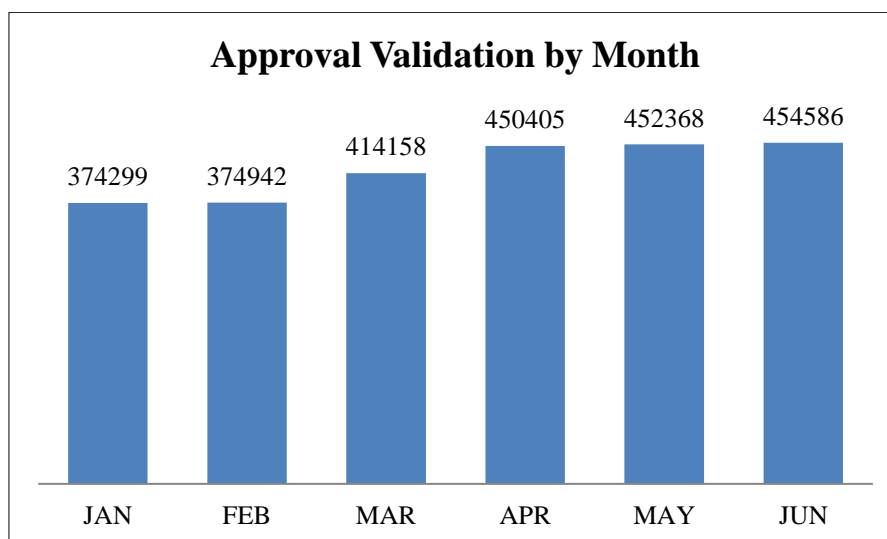
**Assessment of Non-RVSM approved aircraft**

2.1 China RMA validates the aircraft approval information with the global database to identify non-approved aircraft every month.



**Figure 1: Non-RVSM approved aircraft check process**

2.2 The validation was conducted over 2,520,758 aircraft in the first half of 2023, 4,591 of which have potentially operated without proper approvals. Currently, 20 aircraft are under constant tracking.



**Figure 2:** Approval validation by month

2.3 **Appendix A** provides a list of suspected aircraft which have no RVSM approval registration, or have expired approval on their date of flight(s).

2.4 **Appendix B** provides a list of the number of suspected aircraft group by RMA.

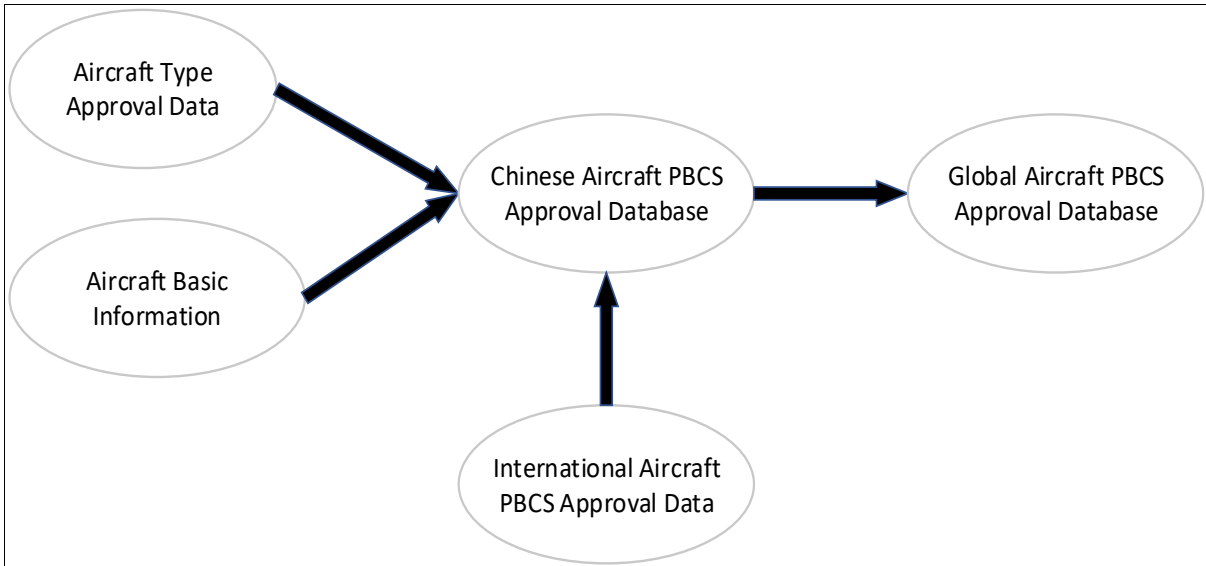
#### **Assessment of Chinese PBCS approved aircraft**

2.5 In China, PBCS approvals are issued to specific aircraft type of an operator. If one aircraft type received the approval, all other aircraft of the same type will be recognized as approved. From the analysis of the approval data, it is found that most PBCS approved aircraft are from Part 121 operators and only a small proportion of aircraft are from Part 135 or 136 in China.

2.6 Chinese operators only need to provide the PBCS approval information of aircraft type to China RMA, since the agency manages Chinese aircraft RVSM database, where abundant aircraft information are preserved.

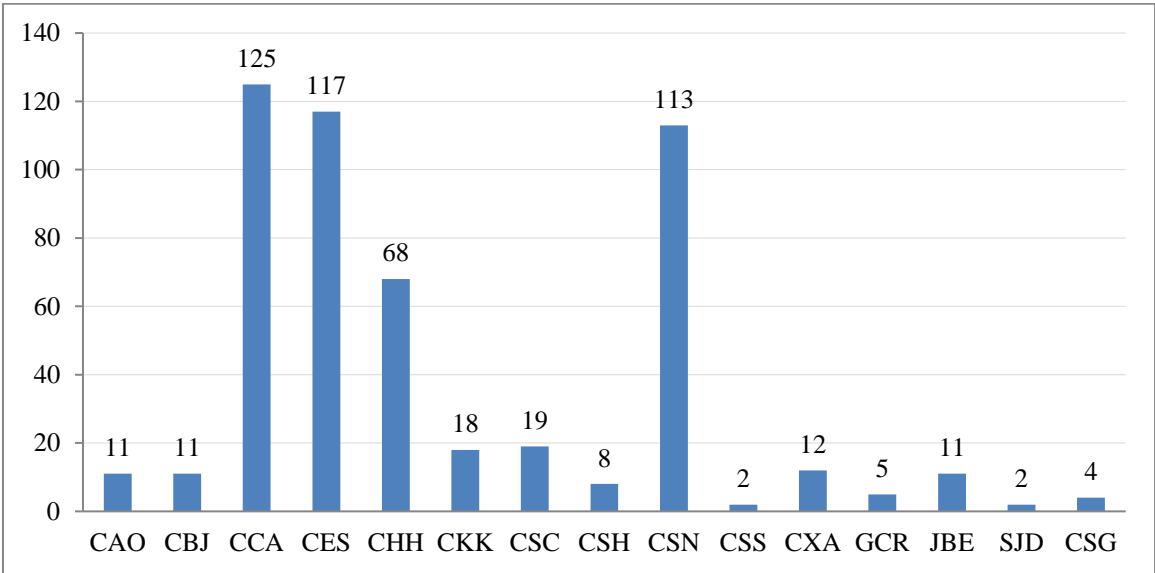
2.7 To support the process, China RMA is assigned to:

- a) Collect PBCS approval data;
- b) Update the single aircraft PBCS approval information with type approval to generate/update aircraft PBCS approval database;
- c) Combine the PBCS approval database with the international database to update the Global aircraft PBCS approval database.

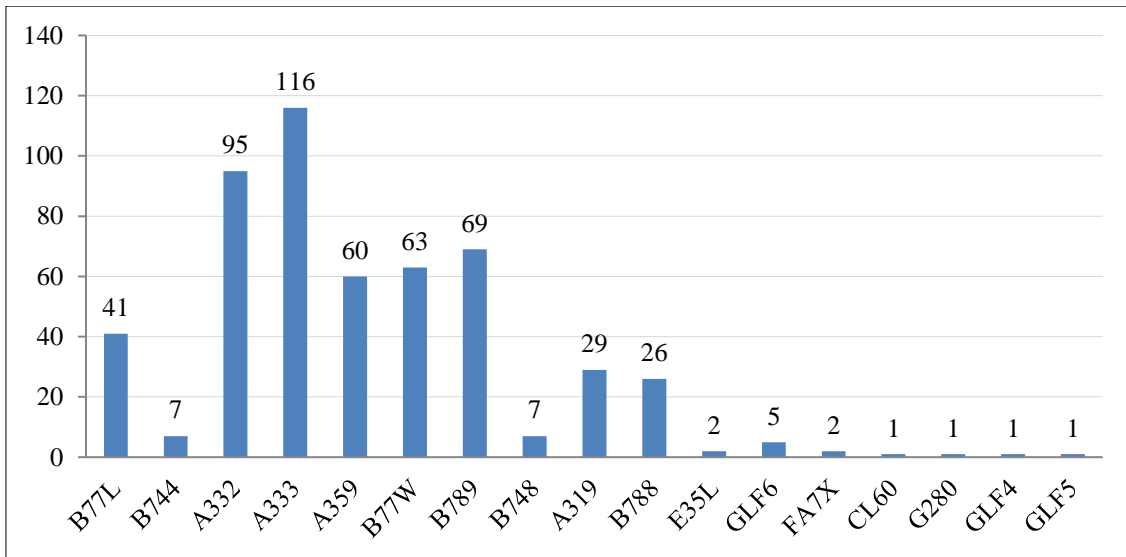


**Figure 3:** Aircraft PBCS approval data collection process

2.8 By the end of June 2023, 526 aircraft from 15 Chinese operators completed the registration in China RMA’s database, including 17 aircraft types.



**Figure 4:** PBCS approved aircraft by operators



**Figure 5:** PBCS approved aircraft by ICAO type

2.9 China RMA is preparing for approval check program to find the non-PBCS approval aircraft by comparing the flight plan data against the combined global PBCS approval database. When the program is available, China RMA will share the non-PBCS aircraft to other RMAs.

### 3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) confirm and provide updated approval information after the meeting;
- c) discuss any relevant matters as appropriate

.....

**Appendix A Suspected Non-Approved Aircraft Identified by China RMA – to June 2023**

<b>RMA</b>	<b>State</b>	<b>Operator</b>	<b>Registration Number</b>	<b>Type</b>	<b>Flight Date</b>	<b>Flight Count</b>
AAMA	Indonesia (WA)	LNI	PKLSW	B739	202306	5
	Indonesia (WA)	LNI	PKLSZ	B739	202305-06	10
	Indonesia (WA)	MYU	PKMYB	B733	202303	14
	Indonesia (WA)	MYU	PKMYI	B738	202301-03	20
	Indonesia (WA)	LNI	PKLSV	B739	202301-06	91
	Indonesia (WA)	LNI	PKLSU	B739	202301-06	106
CARSAMMA	Cayman Islands (United Kingdom) (MW)	VPC	VPCBN	GLF5	202304-06	5
	Cayman Islands (United Kingdom) (MW)	VPC	VPCRT	GLF6	202303-06	24
CHINA RMA	China (ZB)	CSS	B222X	B763	202306	16
	China (ZB)	CSS	B223Q	B763	202306	38
JASMA	Japan (RJ)	ANA	JA902A	B78X	202302-03	8
MIDRMA	Qatar (OT)	QTR	A7BOI	B77W	202306	6
PARMO	Republic of Korea (RK)	APZ	HL8516	B789	202303-05	5
	Republic of Korea (RK)	FGW	HL8518	B738	202301-03	10
	Republic of Korea (RK)	FGW	HL8512	A332	202303-04	26

**Appendix B Suspected Non-Approved Airframes Group by RMA Identified by China RMA – to June 2023**

<b>RMA</b>	<b>Suspected Count of Airframes</b>
AAMA	6
CARSAMMA	2
CHINA RMA	2
JASMA	1
MIDRMA	1
PARMO	3