



Agenda Item 5: Collision risk assessment and LHD

b) States responsibilities on height monitoring

PBCS Preparation Questionnaire for SAT States

(Prepared by CARSAMMA)

SUMMARY

This working paper presents the result obtained by CARSAMMA from the States under its jurisdiction that were invited to participate in a survey about the status of planned PBCS implementation.

References:

- SAT IMG/01 APPENDIX G

1. Background

1.1 Following the discussion at APIRG/25 (November 2022) and the presentation by the AFI Regional Monitoring Agency (ARMA) on the implementation of procedures supporting Performance Based Communications and Surveillance (PBCS) and non-compliance reporting in the AFI Region, the SAT IMG decided that all South Atlantic States would be invited to complete a survey (based on the ARMA questionnaire) on the status of planned PBCS implementation in their respective Radar Information Service (RISs).

2. Analysis

2.1 CARSAMMA sent the questionnaire to the Contact Points in their respective languages, English and Spanish. Only five states responded to the invitation and completed the requested questionnaire. The others did not respond or stated that they did not know about the theme and asked for clarification.

2.2 STATUS REVIEW OF THE CURRENT AND PLANNED IMPLEMENTATION OF PERFORMANCE-BASED HORIZONTAL SEPARATION MINIMA

PART 1

1. Has your State completed any of the following preparations for PBCS implementation?			Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date
Task Group	Task ID	TASK descriptor	BOLIVIA		VENEZUELA		COLOMBIA		CUBA		ECUADOR	
			Group A	A-1	AIP (Prescription of an RCP/RSP specification. Also see B-3 below)	N		N	1° SEM 2026	N	Dec-2023	N
A-2	PBCS policies, objectives supporting safety oversight of ANSP PBCS operations	N			N		N	Feb-2024	N		N	TBD
A-3	PBCS policies, objectives supporting safety oversight of Aircraft Operator and Aircraft System PBCS operations	N			N		N	Feb-2024	N		N	TBD
A-4	Proposal for Amendment to ICAO Doc 7030 - <i>Regional Supplementary Procedures</i> for PBCS operations, if applicable			N/A	N		N	Feb-2024			N	TBD
Group B	B-1	PBCS Implementation Plan	N		N		N	Dec-2023	N		N	TBD
	B-2	Target dates for PBCS and relevant ATM operations		TBD	N		N	Dec-2023	N		N	TBD
	B-3	RCP/RSP specifications		TBD	N		N	Feb-2024	N		N	TBD
	B-4	PBCS awareness	N		N		N	Feb-2024	N		N	TBD
Group C	C-1	Operational concepts and procedures for PBCS operations	N		N		N	Feb-2024	N		N	TBD

		C-2	ATM automation system changes to use flight plan RCP/RSP indicators		TBD	N		N	Mar-2024	N		N	TBD
		C-3	ATM automation changes for PBCS monitoring		TBD	N		N	Mar-2024			N	TBD
		C-4	Confirm initial ANSP compliance with RCP/RSP specifications	N		N		N	Apr-2024			N	TBD
Group D		D-1	Aircraft operator readiness	N		N		N	Oct-2023	N		N	TBD
		D-2	Confirm initial operator and/or aircraft type/ system compliance with RCP/RSP	N		N		N	Dec-2023			N	TBD
Group E		E-1	PBCS monitoring, analysis and reporting - post implementation	N		N		N	Jun-2024	N		N	TBD

PART 2

2. Does your State report data linkage problems to a recognized regional monitoring body (ARMA, SATMA, and CARSAMMA)?									
BOLIVIA		VENEZUELA		COLOMBIA		CUBA		ECUADOR	
Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date
Y				Y		N		N	TBD

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3. Does your state monitor and analyze the performance of data links according to the following specifications and report the analysis to a recognized FANS Interoperability Team (FIT)?													
				BOLIVIA		VENEZUELA		COLOMBIA		CUBA		EQUADOR	
				Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date
Communication Specifications & Interoperability Standards	Normal	RCP240	FANSI/A CPDLC	N		N		N	Jan-2024			N	TBD
	Alternative					N				N			
Surveillance Specifications & Interoperability Standards	Normal	RSP180	FANSI/A ADS-C	N		N		N	Jan-2024	N		N	TBD
	Alternative					N				N			
						N				N		N	TBD

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4. Has your State implemented or does it plan to implement the following performance-based horizontal separation minimums?		BOLIVIA		VENEZUELA		COLOMBIA		CUBA		EQUADOR				
		Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date	Y/N	If NO, Planned Date			
Navigation Specifications & Applicable ATM Operations	RNAV/RNP	RNAV/RNP 10	50 NM Lateral Separation	Y		N		Y		N		N	TBD	
			50 NM Longitudinal Separation	Y		N		Y		N		N	TBD	
	RNP 4	30 NM Longitudinal Separation I	N	ATS Routes RNAV-5	N		N	Jan-2024	N		N		N	TBD
		30 NM Lateral Separation	N		N		N	Jan-2024	N		N		N	TBD
		23 NM Lateral Separation	N		N		N	Jan-2024	N		N		N	TBD
	RNP2	30 NM Climb-Descend Through	N	TMA Maiquetia y Margarita RNP1	N		N	Jan-2024	N		N		N	TBD
	ASEPS	17 NM Long & 19 NM Lat separation	N		N		N	Jan-2024	N		N		N	TBD

2.3 CARSAMMA believes that in the near future the PBCS concept should be familiarized with the Civil Aviation Authorities through a symposium.

2.4 It is also worth noting that CARSAMMA makes available on its portal the F2 RVSM Airworthiness Approval form with PBCS related fields. However, most states use an older version of the form. A new call is urgently needed to Civil Aviation Authorities to update and fill out the most recent form, so that CARSAMMA can start developing a PBCS database.

3. **Suggested actions**

3.1 The SAT SOG meeting is invited to:

- a) Note and discuss the information provided.
- b) Approve for a PBCS Symposium that brings together the South Atlantic States and develops among the Civil Aviation Authorities the concepts involved in the PBCS implementation process.

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