



ICAO

International Civil Aviation Organization  
North American, Central American and Caribbean Office

WORKING PAPER

GTE/14 — WP/08  
27/11/14

**Fourteenth Scrutiny Working Group Meeting (GTE/14)**  
Mexico City, Mexico, 1 – 5 December 2014

**Agenda Item 2: Review of the Safety Assessment Project on RVSM Airspace for the CAR/SAM Regions**

**RVSM Project**

(Presented by Secretariat)

**EXECUTIVE SUMMARY**

This working paper presents the CARSAMMA Project proposal, with a view to improve the process of compilation and analysis of data according to the Agency's duties and responsibilities.

*Strategic Objectives:*

- Safety

*References:*

- GREPECAS/17 Report

**1. Introduction**

1.1 CARSAMMA has identified that from the data provided to them by CAR and SAM States, only 42% of SAM and 78% of CAR Region States information could be used, taking into consideration the errors in the filling of forms submitted to the Agency. Details on such information, is included in Appendix A to working paper GREPECAS/17-WP/07 presented to GREPECAS/17.

1.2 Likewise, CARSAMMA has identified that in CAR and SAM Regions, a high percentage of LHD (58%) could not be used for safety assessment calculations due to missing or incorrect information inserted in the LHD form, thus significantly affecting the estimated risk calculation for RVSM airspace.

1.3 More information on the number of LHD that cannot be used in the CRM was included in Appendix A to working paper GREPECAS/17-WP/07.

## 2. **Analysis**

2.1 GREPECAS/17 meeting noted that in view of the mentioned lack of quality in the information submitted to CARSAMMA, the Agency needs to investigate and clarify the data, thus increasing the workload in the whole process, generating a delay in the validation of LHD, which at present is of 7 months. In such sense, GREPECAS/17 meeting considered the need to develop a project with the objective of obtaining a sustainable solution to mitigate problems in the filling of air traffic movements and LHD data, including tasks for the redistribution of work, reduce time for LHD validation and maintain a more efficient follow-up of data quality.

## 3. **Suggested action:**

3.1 The Meeting is invited to:

- a) note the information contained in this working paper;
  - b) assess, propose changes as deemed necessary and approve the draft Project attached as **Appendix A** to this working paper;
  - c) choose the Project coordinator; and
  - d) identify GTE States that could be members and coordinator of the Project.
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**SAFETY ASSESSMENT PROJECT ON RVSM AIRSPACE FOR THE CAR/SAM REGIONS**

<i>CAR/SAM Region</i>	<b>PROJECT DESCRIPTION (DP)</b>	DP N° XX	
<b>Programme</b>	<b>Project title</b>	<b>Start</b>	<b>End</b>
<i>PBN</i> (Programme coordinators: Víctor Hernández and Julio Pereira)	Operational improvement of the Caribbean and South American Monitoring Agency  Project coordinator: Julio Alexis Lewis	2014	2018
<b>Objective</b>	<p>Improve the process of compilation and data processing related to the Caribbean and South American Monitoring Agency's duties and responsibilities, with a view to optimize results of:</p> <ol style="list-style-type: none"> <li>Assessment of quantitative safety based on Reich Model.</li> <li>Assessment of qualitative safety based on SMS.</li> <li>Research of non-approved RVSM aircraft in RVSM airspace.</li> <li>Proposal of mitigating measures regarding identified problems.</li> <li>Coordination with civil aviation authorities regarding approval of RVSM aircraft and operators.</li> <li>Research of compilation methodology/tools.</li> </ol>		
<b>Scope</b>	The scope of the Project contemplates the profile, training and accreditation of States' experts to perform compilation and processing of data to allow CARSAMMA the fulfillment of its duties and responsibilities. Moreover, it includes the identification and use of suitable tools for the development of States' experts and CARSAMMA work.		
<b>Metrics</b>	<ul style="list-style-type: none"> <li>Percentage of air traffic movement data effectively used for the assessment of quantitative safety.</li> <li>Percentage of LHD forms received with error.</li> <li>Percentage of LHD reduction.</li> <li>Percentage of reduction of non-approved aircraft flying in RVSM airspace.</li> </ul>		
<b>Strategy</b>	The implementation of Project activities will be coordinated between Scrutiny Working Group members (GTE), the Project Coordinator and the Programme Coordinator, mainly through teleconferences and GTE meetings. The Project Coordinator will coordinate with the Programme Coordinator the incorporation of additional experts if the tasks and works to be fulfilled deem it necessary. Moreover, States, together with CARSAMMA, should verify that the profile, training and accreditation of experts is compatible with compilation tasks and processing of data related to the activities of CARSAMMA.		

<p><b>Goals</b></p>	<ul style="list-style-type: none"> <li>• 90% of data of air traffic movement effectively used in the assessment of quantitative safety.</li> <li>• 95% of LHD forms received with error.</li> <li>• 10% annual reduction in LHD.</li> <li>• 10% annual reduction of non-approved aircraft flying in RVSM airspace.</li> </ul>
<p><b>Justification</b></p>	<p>Significant loss of data compiled by CAR and SAM States was identified during the last years due to lack of information, errors and/or failure to comply with dates, thus generating problems for CARSAMMA to fulfill its duties and responsibilities.</p> <p>Over the years, due to lack of available data, CARSAMMA analysis was focused on type C errors. In order to be able to perform a more complete safety assessment, it is necessary to search information sources to compile data of other type of errors.</p> <p>The continuous change of the CARSAMMA focal points causes problems in the compilation of data required to perform the Agency's activities.</p>
<p><b>Related Projects</b></p>	

<b>Project deliverables</b>	<b>Responsible</b>	<b>Status of implementation*</b>	<b>Delivery date</b>	<b>Comments</b>
Preliminary CARSAMMA focal points training programme	GTE CARSAMMA		GTE/14	
CARSAMMA Manual (Version 1.0)	GTE CARSAMMA		GTE/14	
CARSAMMA focal points training programme - final version	GTE CARSAMMA		GTE/15	
Regulations for accreditation of CARSAMMA focal points	GTE CARSAMMA		GTE/15	
CARSAMMA Manual (Version 2.0)	GTE CARSAMMA		GTE/15	Version 2.0 should include the new mechanisms to compile data related to all types of LHD.

\*

Grey            Task not initiated  
Green            Activity in progress, according to timetable  
Yellow          Activity initiated with some delay, but should be finished in time for its implementation  
Red              Implementation of activity has not been achieved in the estimated time and mitigation measures have to be adopted.

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