



**Thirty First Regional Aviation Safety Group — Pan America Executive Steering Committee Meeting  
(RASG-PA ESC/31)**

Buenos Aires, Argentina 8 to 9 November 2018

**Agenda Item 5: Other business**

**AIG Regional Cooperation Mechanism - ARCM**

**ARCM Presentation**

(Working paper presented by the President of the ARCM Executive Committee)

<b>EXECUTIVE SUMMARY</b>	
This working paper presents to the RASG-PA ESC/31, general information about the AIG Regional Cooperation Mechanism of South America.	
<b>References:</b>	<ul style="list-style-type: none"> <li>• Report of the First AIG Authorities Meeting of the SAM Region (AIG-SAM/1), Lima, Peru, 18 to 20 March 2014.</li> <li>• Report of the second virtual AIG authorities meeting - AIG study of the SAM Region and first steps towards the creation of the AIG regional cooperation mechanism (ARCM) among the AIG Authorities of the SAM Region, Lima, Peru, 27 November 2014.</li> <li>• Annex 13 – Aircraft Accident and Incident Investigation.</li> <li>• Doc 9946 – Manual on Regional Accident and Incident Investigation Organizations (RAIO).</li> <li>• Doc 9756 – Manual of Aircraft Accident and Incident Investigation.</li> </ul>
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"> <li>• Safety</li> </ul>

**1. Introduction**

**Need to establish an ARCM in South America**

1.1 The safe and orderly development of the international civil aviation requires that the States fully cooperate in order to achieve the normalization and harmonization of the regulations, requirements, procedures, methods and the best practices of the industry. The AIG area and the South American States require joint efforts to improve their effective implementation (EI) and to effectively contribute in the reduction of accidents and incidents at the regional level.

1.2 The creation of an AIG Regional Cooperation Mechanism in South America, as a form of a RAIO, would significantly contribute to achieve the following main objectives:

- ✓ The normalization and implementation of requirements, recommendations, procedures, methods and the best practices of the industry in the accident/incident investigation area;
- ✓ to comply with the Declaration of Bogota establishing the following regional goals:
- ✓ To achieve 80% of effective implementation (EI) in the SAM Region;
- ✓ To reduce the gap of the accident rate 50% in the SAM Region in relation to the global accident rate; and
- ✓ To reduce the runway excursion rate 20% in relation to the regional average rate (2007-2012).
- ✓ to start the activities of AIG cooperation among the States that would benefit the States with highest difficulty in establishing an effective and efficient AIG system; and
- ✓ to support the SAM States in the solution of the verifications left by the comprehensive systems approach (CSA) and the activities of the USOAP new continuing monitoring approach continua (CMA).

## 2 **First steps towards the ARCM**

2.1 The first AIG-SAM/01 meeting was held in March 2014 with the joint idea of the Regional Office and the SAM States. The AIG/SAM organizations agreed on working on the conformation of a cooperation mechanism. A study and analysis of the current situation of the investigation organizations was conducted to discover the capabilities and weaknesses of the AIG organizations at the regional level. That was the starting point to determine the steps to follow for the establishment of the mechanism.

### **AIG-SAM/02 Meeting**

2.2 In the Second AIG Authorities Meeting, held in Buenos Aires in June 2015, the establishment of an AIG Regional Cooperation Mechanism was approved. Besides, in this occasion, the President of the JIAAC was elected to be the president of the ARCM Executive Committee for three years to give the first steps in the ARCM conformation and functioning. The most important conclusion is presented below:

### **AIG-SAM/02 CONCLUSION - Establishment and management of the ARCM of South America**

To establish the ARCM of South America, whose main mission will be to support the States that require in the aspects related to aircraft accident and incident investigation in a regional cooperation environment. For the purpose of the functioning of the ARCM, the guidelines for the creation of the different types of work were established with the need of promoting and standardizing the investigation procedures in accordance with the ICAO standards and recommended practices in Annex 13 and related documents. For this purpose, the development of documents for the functioning and harmonization of accident investigation documents was worked in.

#### Development of the ARCM Functions and Organization Manual

Harmonization of manuals: Planning and organization of the investigation  
 Investigation procedures  
 Instruction Manual  
 LAR 113  
 Harmonized SDCPS database

### **AIG-SAM/03 Meeting**

2.3 The Third AIG Authorities Meeting of South America (AIG-SAM/3) was held in the facilities of the ICAO South American Regional Office, in the city of Lima, Peru, 7 to 9 March 2016.

2.4 This meeting presented the ARCM Multinational Agreement for aircraft accident investigation, whose objective is to facilitate the multinational technical cooperation in the area of aircraft accident and incident investigation. This will include technical assistance with investigators in the aircraft accident and serious incident

investigation, in the training of investigators and in equipment and material tests mainly, provided that an AIG authority of a member State requests it and there are the necessary means and the acceptance by the AIG authorities of the other ARCM member States to facilitate the cooperation requested.

2.5 Besides, in this meeting, the ARCM adopted an identity and its logo was approved. This logo will then make us known as an organization that contributes to safety improvements in the SAM Region. The first ARCM activities programme for 2016 was approved, with the following activities:

- ✓ Training for all South American AIG organizations in relation to the use of the ADREP/ECCAIRS platform to upload all the events of the region without considering the amount of aircraft and the types of occurrences.
- ✓ Training for investigators at the regional level for multinational investigators certification.
- ✓ Creation of the first work group addressing the RE concern at the regional level.
- ✓ Consolidation of the ARCM SDCPS database at the regional level.

#### **AIG-SAM/04 Meeting**

2.6 The Fourth AIG Authorities Meeting of South America (AIG-SAM/4) was held in CENIPA facilities, in the city of Brasilia, Brazil, 25 to 27 May 2017.

In this meeting, several working papers (WPs) were presented, addressing issues such as:

- ✓ Result of the work group about RE
- ✓ First ARCM safety report based on data from our SDCPS and developed by analysts from different AIG organizations of the SAM Region
- ✓ First regional safety recommendation about the conclusions of the RE work
- ✓ Interaction between the AIG organization and the civil aeronautical authority in the framework of the SSP in relation to the exchange of information.

#### **AIG-SAM/05 Meeting**

2.7 The Fifth AIG Authorities Meeting of South America (AIG-SAM/5) was held in the city of Medellin, Colombia, 02 to 05 October 2018. In this meeting, the signing of the ARCM Multinational Agreement about cooperation in aircraft accident investigation was completed by the 13 South American States, and the President of the JIAAC was re-elected to continue being the President of the ARCM Executive Committee for the next three years.

The ARCM Technical Committee created three work groups this year to work in different issues at the regional level; they were the following:

- ✓ *Work group about agricultural aviation accidents*
- ✓ *Work group about instruction flights accidents*  
identifying the factors causing the events, the systemic factors, standards and safety recommendations issued.
- ✓ *Work group about the SDCPS*  
in order to develop a procedure for data validation before uploading to the SDCPS, to promote the upload of events and to plan training to AIG personnel.

2.6 The following organizations, manufacturers and institutions participate in the ARCM in condition of special observers: NTSB, BEA, CASSOS, AIRBUS, EMBRAER, ATR, and ISASI.

### **3 Conclusions**

The AIG Regional Cooperation Mechanism has:

- established a series of harmonized manuals for accident and incident investigation in accordance with the ICAO standards and recommended practices.
- planned, coordinated and developed training for personnel of AIG organizations about multinational investigator and ECCAIRS system.
- established the ARCM SDCPS repository, unique worldwide, that captures the commercial and general aviation occurrences at the regional level.
- the capacity of analyzing reactive data uploaded in the SDCPS and obtaining safety data intelligence, identifying not only the factors but also the precursors that contributed to the occurrence.

4. **Suggested actions**

4.1 The RAGSPA meeting is requested to take note on the information presented in this WP and attachment A, and

- a) Spread it among the RAGSPA members; and
- b) Examine the possibility that the ARCM can be part of the RAGSPA.

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