



Agenda Item 2: Airspace optimization

SAM AIRSPACE STUDY AND IMPLEMENTATION GROUP (GESEA)

(Presented by Brazil)

SUMMARY

This working paper presents the works that have been developed for the organization and the establishment of the work process corresponding to the SAM Airspace Study and Implementation Group (GESEA).

1. Background

1.1 At the SAM/IG/22 Meeting, it has been informed that in accordance with the guidelines provided by ICAO, the Brazilian industry took the initiative to create the Airspace Planning Study Group (GEPEA), with the participation of the National Civil Aviation Agency (ANAC), Brazilian Airline Association (ABEAR), Department of Airspace Control (DECEA), International Air Transport Association (IATA), and also the participation of general aviation and pilot associations.

1.2 At the same meeting, a proposal for improvement of the SAM PBN Implementation Group was analyzed through the creation of the SAM Airspace Study and Implementation Group (GESEA), based on the experience of the industry in Brazil, presented at the WP/06 of Brazil and IATA. The constitution of the GESEA group was agreed through Conclusion SAM/IG/22-01.

1.3 Based on this information, a Working Paper was presented at the SAM/IG/23 Meeting with the proposed organization, structure and operation of the GESEA, taking into account the Brazilian experience with its national study group, the GEPEA.

1.4 The basic characteristics for the organization of the GESEA defined in the Working Paper were the following:

a) Objectives of the GESEA:

- ✓ Coordinate the implementation of SAM route versions;
- ✓ Harmonize PBN implementation in the main SAM TMAs, applying international best practices;
- ✓ Support SAM States in the implementation of STAR, SID and PBN based approaches;
- ✓ Coordinate the ICAO RNAV to RNP nomenclature migration process;
- ✓ Develop a harmonized methodology for post-implementation evaluation, with the application of key performance indicators;
- ✓ Support the implementation of a regulatory framework for the instrument flight procedure design service;
- ✓ Share best practices in the design and publication of instrument flight procedures, with a view to increasing operational safety and flight efficiency.

b) Structure:

- ✓ General Coordination;
- ✓ Air Space Subgroup (SG1);
- ✓ PANS / PAHO Subgroup (SG2).

1.5 The Working Paper was approved by the representatives of the States that participated in the SAM/IG/23 meeting and the coordinators of the GESEA and Subgroups SG1 and SG2 were appointed.

1.6 At the same meeting, an initial Work Plan proposal was established with the most important issues that have been suggested by the participants. Below is the list of the tasks of the Work Plan and their respective rapporteurs:

Working Group	Subgroup	Rapporteur
GT Circular 353	SG2	Ana Toloza
GT Airspace Planning	SG1	Marcos Peçanha
GT Airspace Planning training	SG1	Fernandes Jr
GT CONT PLAN	SG1	Ricardo David
GT RNAV Visual	SG2	Raymundo Hurtado
GT POST-IMPLEM	SG1	Julio Pereira
GT ToR GESEA	N/A	Fernandes Jr
Concept of Airspace	SG1	Hector Ibarra
Quality assurance - IFPDS		

1.7 Two objectives of GESEA have considerable priority and complexity and should be addressed by specific working groups:

- a) Coordinate the migration process of the RNAV nomenclature to the ICAO RNP (Implementation Plan for Circular 353 AN / 209 “Transition planning for change to instrument flight procedure approach chart identification from RNAV to RNP”);
- b) Develop a harmonized methodology for post-implementation evaluation, with the application of performance indicators.

2. WORKS DEVELOPED BY THE GESEA

2.1 Since its creation, at the SAM/IG/23 meeting, two meetings have been held by teleconferences (TC), GESEA/01 and GESEA/02. In these meetings, the progress made with the activities of the GESEA Work Plan and the developments to organize its operation were discussed.

2.2 The activities that advanced the most were the development of the GESEA ToR and the Implementation Plan of Circular 353. The other issues were not addressed in the GESEA TCs, because there were no updates in that regard.

TERMS OF REFERENCE (TOR) OF THE GESEA

2.3 The GESEA TOR proposal is being developed by the Group's General Coordinator, Mr. Fernandes Jr (Brazil). During the two meetings of the GESEA, information about the adjustments in the TOR was presented for criticism of the participants. The improvements made were the following:

- ✓ General review of the objectives of GESEA, in order to emphasize the group's action to support the Regional Office of Lima and the SAM States on issues related to airspace and PANS-OPS: definition of new requirements, implementation of projects, development of work programs, courses and training, etc.;
- ✓ Introduction of a chapter dealing with the structure of the GESEA, with an overview of the responsibilities of each function in the group;
- ✓ The detailed description of the responsibilities has been transferred to the Annexes of the document. Information was provided on the responsibilities of the Member of States and the Advisers of the group;
- ✓ Operation of the GESEA: monthly meetings by teleconference, all with agenda and report. The numbering of these documents has been defined;
- ✓ Presentation of the shared folder / folder GESEA (in the cloud) and proposal of the group symbol.

2.4 The TOR proposal has also been presented at the PANS-OPS Workshop meeting, in October 2019, and the adjustments made in the document have been considered satisfactory by all.

IMPLEMENTATION OF ICAO CIRCULAR 353

2.5 ICAO Circular 353 says about the need to change the standard for the identification of PBN approach procedures and to insert the PBN Box in those letters. The change in identification will be RNAV (GNSS) RWY XX for RNP RWY XX.

Ana Toloza (Argentina). The work proposal of this group is to develop and present two products to the Lima Office:

- ✓ AIC proposal of the SAM Region with the new identification of PBN procedures;
- ✓ Proposal for a Circular Implementation Plan.

2.7 The content of the AIC was based on a text contained in the Working Paper presented by the Brazilian representative at the SAM/IG/23 meeting. The structure of the document discussed and approved at the GESEA meetings is as follows:

- ✓ Purpose;
- ✓ Abbreviations and definitions;
- ✓ Background + Stakeholders;
- ✓ Change in the identification of the IAC;
- ✓ PBN box presentation (PBN box);
- ✓ Implementation Plan;
- ✓ Appendix 1 - Implementation Strategy (Optional);
- ✓ Appendix 2 - Implementation Plan (Optional);
- ✓ Appendix 3 - Potential Impacts (Optional).

2.8 The text of the AIC is very similar to ICAO Circular 353. States are responsible for evaluating the proposed content and deciding on the adoption of all or only part of the AIC proposal. It will also be necessary for States to insert national examples of letters into the AIC.

2.9 The Implementation Plan is one of the AIC Appendices and has been developed in coordination with the representatives of the States. The idea is to begin the change of the identification of the PBN approach procedures of the SAM Region from 2021. Except for Brazil, which requested to start the identification change in the second half of 2020, due to the PBN TMA SP project Neo.

OTHER WORK OF THE GESEA

2.10 Two other topics were presented at the SAM/IG/23 meeting and are now part of the GESEA Work Plan:

- ✓ SAM/IG/23-NE/30 - ATS Contingency Plan of the SAM Region:
- ✓ It presents the initiative of the Department of Air Space Control (DECEA) for the update of the ATS Contingency Plan of the SAM Region, considering the particularities of the South American FIRs.
- ✓ SAM/IG/23-NE/30 - Standards and training of airspace planning experts in the SAM Region:
- ✓ It presents the emerging needs in terms of standards and training of experts in airspace planning in the SAM region and proposes the creation of two Working Groups (WG) subordinated to GESEA Subgroup 1 for the development of the work.

2.11 Both activities were approved by SAM/IG/23. Dates for developing the work follows:

- ✓ ATS Contingency Plan of the SAM Region: Two meetings in Lima: 13 to 17 April and 14 to 18 September;
- ✓ Standards and training of airspace planning experts in the SAM Region: Meeting of SG1 in Lima: 30 March to 3 April.

3. Suggested actions

3.1 The meeting is invited to:

- a) Take note of the information provided in this working paper;
- b) Evaluate and approve the TOR of the GESEA;
- c) Evaluate the work program of the GESEA and discuss the need to include other activities in the program;
- d) Indicate representatives of the States to participate in the activities of the Work Program;
- e) Evaluate the proposal for the Implementation Plan of Circular 353.

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