



Agenda

Item 2: Report of activities of the GESEA and Subgroups

REPORT ON GESEA/SG2 ACTIVITIES

(Prepared by the GESEA/SG2 Coordinator)

SUMMARY

This working paper presents the actions carried out by GESEA Subgroup 2 during the current year.

References:

- Final Report Meeting SAM/IG/25
- Summary of meeting GESEA/SG2/2

1. Background

1.1 SG2/GESEA held its meeting through virtual sessions between May 17 and 19, 2021, where tasks and work proposals were developed as set out in this paper.

1.2 The GESEA/SG1/2 Meeting reviewed the conclusions of the SAMIG/25 Meeting (Virtual 2-4 November 2020), and the actions to be worked on were agreed by the GESEA Plenary (virtual sessions between 16 and 18 March 2021).

1.3 The Work Plan approved by the GESEA Plenary for SG 2, where the Rapporteurs of each Task Force – WG are informed, is attached as **Appendix A** to this paper (Spanish only). Likewise, an access link to the material and list of participants is attached, as well as the actions planned for SG2 through the following link:

https://1drv.ms/u/s!Ag_x-buiZS9Li7J1R9-SF0PL_kFmOA?e=K034B7

2. Análisis

Follow-up to the implementation of PBN in the SAM Region (Resolution A-37 / 11)

2.1 The GESEA/SG2 meeting carried out an analysis of the information provided by the ICAO iSTARS application database, where the current situation of implementation of Resolution A-37 11 of the ICAO Assembly is monitored. Now the compliance is 88.5%, based on 192 thresholds implemented on 217 thresholds of international runways.

2.2 Based on this information, and beyond having detected a logical delay in updating the indicators, we worked on the actions that each of the States is developing, contemplating the delays that could have occurred due to health measures and labor limitations in recent times.

Implementation of PBN procedures to visual flight Runways.

2.3 The meeting began work on this matter in accordance with the publication and use of the REGIONAL GUIDE ON THE IMPLEMENTATION OF PBN PROCEDURES FOR VISUAL FLIGHT RUNWAY approved by SAMIG/25.

2.4 As advances at the regional level, the publication by Brazil of AIC N21/21 of June 7 of this year is mentioned, allowing the publication of IFP RNP APCH for visual runways in the Aerodromes of SBSV, SBIL and SBAG.

2.5 Aerodromes were determined to be analyzed by the different States, as mentioned in **Appendix B** (Spanish only), with the aim of determining feasibility and availability of realization according to the capabilities of each of them.

2.6 The WG participants were committed to providing support in terms of lessons learned or design aspects that are required.

Studies on RNAV Visual procedures – RVFP

2.7 On this matter, the meeting agreed to form a Task Group – GT – "Study for a Regional RVFP Guide" to address the issue and analyze the feasibility of implementing RVFP in specific cases where RNP APCH or RNP AR procedures, or even PBN to Visual track are not efficient or do not meet operational requirements.

2.8 The rapporteurship of the WG was assigned to Colombia, with the intention of capitalizing on the experience and good practices developed in the implementation of this type of procedure.

Optimization of flight procedures with application of RF segments.

2.9 As reported by the SRVSOP through CA91-013, where it proceeded to clarify the conditions for the application of RF segments (radius to fix) in RNP APCH and RNP AR procedures for certified operators, it was agreed with the States the need to promote the review or make new designs of IFP procedures that include RF segments, allowing shorter and more efficient approach trajectories, fuel and emission savings.

2.10 Examples of NM reduction in instrumental approaches were presented at the meeting. Additionally, various uses were exposed, including SIDs, which allows an improvement in the efficiency of operations in a significant way.

2.11 With the aim of promoting its implementation, the Task Group -GT- "Application of RF Segments" was generated to generate a joint and collaborative work.

2.12 For instance, publication of IAC RNP APCH procedures with RF LEG for Aerodromes SBGO and SBJH were mentioned.

Optimization of TMA airspaces.

2.13 The work in the region with respect to the optimization of TMA is being worked on in an integral manner in the States, so it was understood necessary to generate a common working space with subgroups SG1, SG2 and SG3 of the GESEA.

2.14 The meeting presented the implementation of the TMA SAO PAULO NEO as one of the regional optimization milestones.

Implementation of Regional RNAV-5 Routes

2.15 SG2 analyzed conventional regional AWYs in the Upper airspace, accounting 29 AWYs.

2.16 Representatives were asked to work for the AIRAC 09 SEP 21 cycle to modify and publish AWY with RNAV5 navigation specification. In this sense, the AWYs to be modified were listed for general knowledge.

2.17 After the meeting, States have worked to comply with the provisions. As an example, the conversion of all Conventional AWY to RNAV5 is reported in the upper airspace between the States of Argentina, Chile, Paraguay and Uruguay. In the course of the publications, the agreement of SG2 will be finalized.

IFP procedures in overlay mode

2.18 This topic was submitted at the Meeting, and will be presented by the Secretariat in Information paper 2.6.

3. Suggested action

3.1 The Meeting is invited to:

- a) Take note of the information provided;
- b) Evaluate the work programme of SG2, attached as **Appendix A** and propose amendments as they deem appropriate;
- c) Report progress in the implementation of PBN on visual flight track (**Appendix B**);
and
- d) confirm the availability and participation in the different GTs proposed by SG2 (see **Appendix C**), with the aim of developing and facilitating the implementation of the improvements analyzed by the participants.

APPENDIX A

GESEA activities for 2021

ACTIVIDAD	GRUPO	REFERENCIA	AREA	DESCRIPCIÓN	RELATOR	ESTADO/ORG
DCT- EDE	SG1	SAM/IG/23 y 25	Implantación	Implantación en base a estudios del SG1 en 2020. Trabajo con Estados, CANSO, IATA, Aerolíneas. Desarrollar KPIs	Julio Pereira	IATA
CONT PLAN	SG1	SAM/IG/23 y 25	Implantación	Elaboración de los Planes de Contingencia de Estados armonizados y concordados, en base al Marco aprobado MCATS	Ricardo David	BRASIL
CONCEPTO DE ESPACIO AEREO SAM	SG1	SAM/IG/23	Planific.	Completar Estudios. Participación de Estados para comprensión de la metodología. Entregar insumo al VOL III ANSP CAR SAM.	Hector Ibarra	CHILE
NORMAS PLANIFICACIÓN EA	SG1	SAM/IG/23 y 25	Normas	Material guía sobre proyectos de Espacio Aéreo	Marcos Peçanha	BRASIL
CAPACITACIÓN PLANIFICADOR EA	SG1	SAM/IG/23 y 25	Capacitación	Capacitación sobre el Material guía sobre proyectos de EA	Marcos Peçanha	BRASIL
RUTAS RNAV 5	SG1- SG2	PLEN GESEA 2	Implantación	Optimizar últimas 29 rutas convencionales. Aplicación excluyente de RNAV 5 en espacio superior regional y doméstico. Planes de acción	Tomas Yentz	PARAGUAY
OPTIMIZACIÓN DE ESPACIOS TMA	SG1- SG2	PLEN GESEA 2	Implantación	Optimización de TMA seleccionados. Aplicación inicial de sinergias ASM/ATFM	TBD	
PBN A PISTA VISUAL	SG2	SAM/IG/23	Implantación	En base a la Guía Regional, desarrollar planes de acción para implantar en ADS seleccionados.	Raymundo Hurtado	LATAM -IATA
RNAV VISUAL	SG2	SAM/IG/25	Normas	Desarrollar Guía Regional sobre RNAV VISUAL, aprovechar experiencias de PBN a Pista Visual.	Fredy Celis	COLOMBIA
APLICACIÓN RF	SG2	SG2 /1	Implantación	Optimizar IFP de Ads seleccionados con aplicación de segmentos RF. Plan de Acción	Diego Gamboa	ARGENTINA
TOR del SG3	SG3 T	Plenario 2 GESEA	Normas	TOR del SG3. Organización del Subgrupo	Marcos Peçanha	BRASIL

APPENDIX B

Projects to implement PBN procedures to visual flight runways

Estado	Proyectos	Notas
Argentina	SAWH- Ushuaia SAZY –San martin SAVE – Esquel	
Bolivia	SLTJ – Tarija SLCH- Cochabamba SLLP – La Paz *	*PBN a RWY 28, en progreso
Brasil	SBIL –Ilheus * SBSV –Salvador * SBCH – Chapecó SBTE - Teresina SWPI - Parintins	*en progreso
Chile	---	Aplica propia regulación para implementar parta aeronaves CAT A y B. Se estudiará la aplicación en SCAR – Arica RWY20.
Colombia	SKPV- Providencia SKTL –Tolú SKGP – Guapi*	* En vigor desde 17 junio del 2021
Ecuador	---	* Se estudiará aplicación para SEQM – Quito Internacional
Paraguay	---	
Panamá	MPMG – Marcos Gelabert	
Perú	SPJJ – Jauja* SPJE – Jaén*	* Actualmente IFP de aerolínea (no público)
Uruguay	---	
Venezuela	SVRS – Los Roques	

APPENDIX C

List of participants in SG2 Task Forces (WG)

States	Name	Segments RF application	RVFP studies
Argentina	Gustavo Guardia Narvaez		X
	Diego Gamboa	X	X
Bolivia	Luis Rojas	X	
Brasil	Clóvis Fernandes Junior	X	
	Cristian da Silveira Smidt		X
	Gustavo Chiarelli Oliveira	X	
	André Luis Santos da Rocha		X
Chile	Marco Abarca	X	
	Manuel Alvarez	X	
Colombia	Freddy Hernán Celis	X	X
	Oscar Angarita	X	X
	Alexander Reyes		X
Ecuador	Christian Ramos	X	
Panama	Ana Teresa Montenegro	X	X
Peru	Tomás Macedo	X	X
	Eloy Tafur	X	
Uruguay	Gonzalo Lima	X	X
Venezuela	Carlos Castañeda		X
	Pablo Rattia	X	
	Omar Linares	X	

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