

Agenda Item 2:
Regional Aviation Safety
Group – Pan America
(RASG-PA) Report
Presented by the Secretariat

RASG-PA/9 Plenary Meeting

Panama City, Panama, 23 June 2016





Regional Aviation Safety Groups - RASGs

- ★ Support the implementation of the Global Aviation Safety Plan GASP and address global aviation safety matters from a regional perspective
- ★ Serve as the focal point to coordinate all regional efforts and programmes aimed at mitigating safety risks
- ★ Eliminate duplication of effort through the establishment of cooperative regional safety programmes to reduce both financial and human resource burdens on States while delivering measurable safety improvements



RASG-PA Introduction

RASG-PA

- ★ First in the World (2008)
- ★ Multi-regional (NAM/CAR and SAM Regions)
- ★States/Territories, International Organizations and Industry
- ★Aligned with Global Aviation Safety Plan (GASP)
- ★ Data-driven / Results oriented





RASG-PA Strategic Plan

- **★**RASG-PA is evolving
- ★RASG-PA Strategic Plan Task Force (RSP-TF) composed by Chile, Costa Rica, Curaçao, Honduras, United States, ALTA, Boeing, CANSO, IATA and ICAO is working on two deliverables:
 - 1. RASG-PA Procedural Handbook
 - 2. RASG-PA Strategic Plan Document

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Vision

It is to remain ahead of any risks to commercial aviation, seeking to achieve the highest level of safety in the Pan American Region





Mission

It is to reduce fatality risk in commercial aviation by ensuring prioritization, coordination and implementation of data - driven safety enhancement initiatives in the Pan American Region through the active involvement of all civil aviation stakeholders

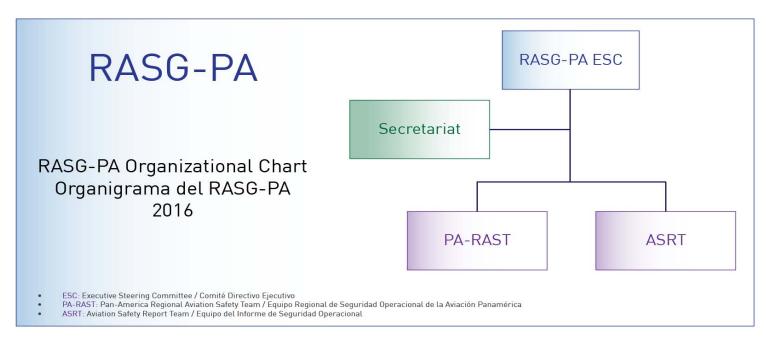








Organizational Chart



RASG-PA Secretariat: ICAO NACC Regional Office



Membership

34 NAM/CAR/SAM States, 19 Territories and...





































RASG-PA Chairmanship

- ★ Composed by two Co-Chairpersons:
 - ESC member representing States/Territories
 - ESC member representing International Organizations/Industry
- ★ESC members representing States/Territories and International Organizations/Industry shall propose their respective representative as Co-Chairperson for ratification by the RASG-PA membership





ESC

Membership is based on:

- ★ Geographical balanced representation within and between the NAM/CAR and SAM Regions
- ★ Balanced representation between States and international organizations/industry
- ★ Balanced diversity of interests and areas of expertise in civil aviation
- ★A manageable number of members to function effectively as an executive body





ESC cont.

Membership is composed by 16 representatives from:

- ★ Four States from the CAR/NAM Regions
- **★** Four States from the SAM Region
- ★ Eight international organizations/industry
- **★ICAO NACC and SAM Regional Offices**



RASG-PA Fatality Risk Reduction Goal

Using 2010 as a baseline, is to reduce fatality risk* for Part 121 or equivalent operations by 50% by the year 2020 in Latin America and the Caribbean

*Fatality risk is the full loss passenger load equivalents per million departures

Fatality Risk* of Commercial Jet Air Travel by Region of the Worldog 2001-2010 (10-year rolling average) 2001-2015

Western-built jet transports >60,000-pounds onboard fatal accidents, by airline domicile





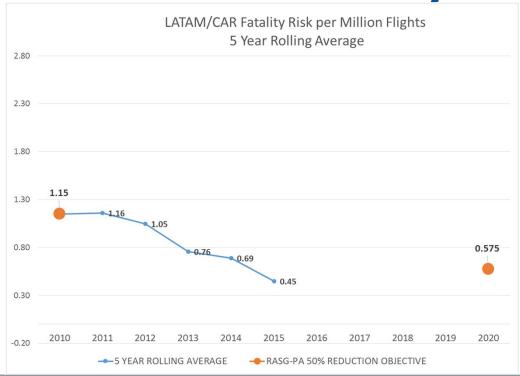
Pan American Scheduled Commercial Air Transport Accidents

Pan American Scheduled Commercial Air Transport Accidents			
Year	Total Accidents	Fatal accidents	Total fatalities
2006-2015 avg.	40.1	3.2	75.5
2014	41	0	0
2015	33	1	2

Aircraft MTOM above 5,700 kilograms Source: RASG-PA ASR 7th Edition - Draft



CAR and SAM Fatality Risk





RASG-PA uses different types of safety data/information_____

REACTIVE: safety analysis based upon accidents and incidents

PROACTIVE: analysis of States' existing conditions (ICAO SARPs implementation, traffic variations) and service providers (IATA Operational Safety Audits, ramp inspections)

PREDICTIVE: based upon analysis of Flight
Operations Quality
Assurance (FOQA) deidentified data, oriented towards identifying potential future hazards for initiating corresponding mitigation actions



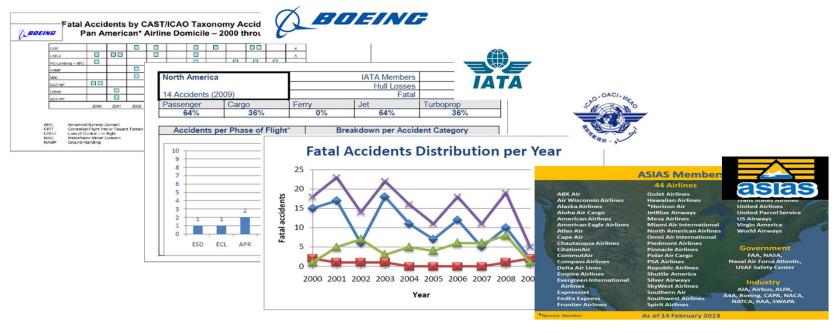
RASG-PA/CAST/IATA Partnership

- ★ RASG-PA entered in an agreement to exchange safety information with the U.S. Commercial Aviation Safety Team (CAST) and IATA
- ★ Recent "data-sharing" home runs have been enabled by the information exchange RASG-PA developed with CAST and IATA
 - By leveraging the information, RASG-PA was able to monitor unstable approaches at select airports within the region and evaluate the effectiveness of deployed mitigations
 - The unstable approach rate at these airports has been reduced by about 50 percent in the last 4 years
 - The data sharing also identified TCAS-RA hot spots that RASG-PA is actively addressing
 - The data has also helped improve airspace design in order to de-conflict airspace around airports





RASG-PA produces safety intelligence from different sources





RASG-PA Risk Management Strategy

Reactive:

Apply the risk reduction formula to accident set to prioritize Safety Enhancement Initiatives (SEIs)

Implement SEIs targeting specific high fatality risk

areas

Predictive

Verify effectiveness of SEIs using precursor trends in FOQA



Some RASG-PA Deliverables





RASG-PA develops Safety Enhancement Initiatives (SEIs) and Detailed Implementation Plans (DIPs) for the top accident categories in Pan America



Runway Excursion (RE)



Controlled Flight Into Terrain (CFIT)



Loss of Control-Inflight (LOC-I)



Mid-Air Collision (MAC)







RASG-PA publishes RASG-PA Safety Advisories - RSA



RASG-PA SAFETY ADVIS

Regional Aviation Safety Group-Pan America

Subject: Mode Awareness and Energy State Management Aspects of Flight Decl

RSA No. RSA 2011-001-R0

1. Purpe

This RASG-PA Safety Advisory is issued to encourage States and Industry to adopt provinces Mode Assessment and Engineers State Management risks

Backgrou

A regional snoy undertures by RASO-PA an isotunded risks associated with me study part of a detailed implementation plan to mitigate these risks, RASG-PA is issuing this R and Industry.

This RSA is intended to reduce the risk of loss of control, which has been the predomin type in the Pan American region for the past ten years.

More detailed information can be found in the RASG-PA Annual Safety Report, which cat www.rnsp-pa.org/

Recommended Action

States and air operators are encouraged to review the attached model circular and con-





RASG-PA SAF

Regional Aviation Safety Group-Pan America (RASG-PA)

Closing of Detailed Implement

- 1.1 The mission of the Regional Aviation Safety Graviation safety and efficiency in the Pan American Region Caribbean (NAM/CAR), and South American (SAM) Regions) b Safety Plan (GASP) principles through a collaborative appro
- 1.2 RASG-PA has become the focal point to ensure efforts aimed at reducing aviation safety risks in the Pan Ameri of resulting safety enhancement initiatives by all stakehold International Organizations and industry.

2. RASG-PA Safety Enhancement Initiative (SEI

- 2.1 RASG-PA has performed an analysis of the the American regional data. As a result, various Safety Enhances reduce the rate of fatal accidents for the three main in Controlled Flight lato Terrain (CFIT) and Loss of Control In-Fl
- 2.2 To implement the SEIs, RASG-PA developed which are championed by the member States/organizations wh initiative based on their area of expertise.
- 2.3 The progress of the associated DIPs is
 - 9 DIPs developed
 - 2 in progress
 7 completed
- The progress of the associated DIP outputs is:
 - 27 outputs develop



RASG-PA SAFETY ADVISO

Regional Aviation Safety Group-Pan America (RASG-PA)

Closing of DIP RE/08 – Guidance for Maintaining Runways in Accordance with ICAO

1. Introducti

- 1.1 The mission of the Regional Aviation Safety Group Pan America (RASimprove civil aviation safety and efficiency in the Pan American Region by applying IC Aviation Safety Plan (GASP) principles through a collaborative approach in partnership with stakeholders under the leadership of ICAO.
- 1.2 RASG-PA has become the focal point to ensure harmonization and coordinate efforts aimed at reducing avainton safety risks in the Pan American Region and promote im of resulting Safety Enhancement Initiatives (SEIs) by all stakeholders including ICAO, State

2. RASG-PA Safety Enhancement Initiative

- 2.1 RASG-PA has performed an mulysis of the main Aviation safety risk areas be American regional data. As a result, various SEIs have been developed to reduce the reaccidents for the four main risk areas: Ramway Excussionary Controlled Flight Into Terrain (CFIT), Loss of Control in-Flight (LOC-I) and Mid Air Collision
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RASG-PA SAFETY ADVISORY- 004

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Regional Aviation Safety Group-Pan America (RASG-PA)

Standardization of Spanish and English ATC Phraseology in Accordance with the ICAO PANS ATM (Doc 4444)

1. Introduction

- 1.1 The mission of the Regional Aviation Safety Group Pan America (RASG-PA) is improve civil aviation safety and efficiency in the Pan American Region by applying ICAO Glob Aviation Safety Plan (GASP) principles through a collaborative approach in partnership with all aviatic stakeholders under the leader-dain of ICAO.
- 1.2 RASG-PA has become the focal point to ensure harmonization and coordination of safety efforts aimed at reducing avairion safety risks in the Pan American Region and promotes implementation of resulting Safety Educationneum Initiatives (SEI) by all stakeholders including ICAO, States-Territories, international organizations and industry.

Background

- 2.1 RASG-PA has performed an analysis of the main aviation safety risk areas based on Pan American regional data. As a result, various projects have been developed to reduce accident incident rates.
- 2.2 One of the projects approved at the Fourth Regional Aviation Safety Group Pan America Meeting (RASG-PA/04) was to implement a strategy for the consistent use of Ari Traffic Control (ATC) standard Spanish phraseology in accordance with the ICAO PANS-ATM (Doc 44444).
- 2.3 The Twelfth RASG-PA Executive Steering Committee Meeting (ESC/12) agreed



RSA-5 RASG-PA SAFETY ADVISORY-5

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Regional Aviation Safety Group-Pan America (RASG-PA

Closing of DIP RE/09 – Specific Training for Pilots and Air Traffic Controllers to Avoid Unstabilized Approaches

1. Introduction

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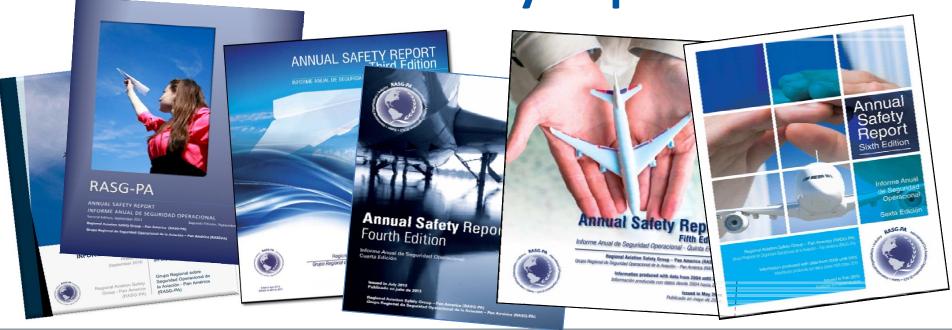
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RASG-PA publishes Annual Safety Reports





RASG-PA created the Guide for maintaining runways in accordance to Annex 14 (English, Spanish and Portuguese)



Guide for maintaining runways in accordance to Annex 14 of ICAO

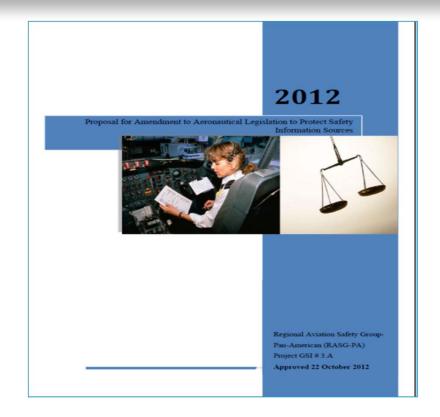


Edited: 28/06/2013





RASG-PA created the Proposal for Amendment to Aeronautical Legislation to Protect Safety Information Sources







RASG-PA has a dedicated website: www.





Active RASG-PA Projects

- ★ ALTA & IATA: Use of Std Spanish & English Phraseology in accordance with the ICAO PANS-ATM Air Traffic Management (Doc 4444)
 - Pilots/ATC Workshops to be delivered
- ★ COCESNA/ACSA: Regional Aviation Accidents Investigation Group (GRIAA) in Central America
 - To be implemented in all Central American States
- ★ Costa Rica DGAC: Flight Information Quality Assurance (FOQA) Programme in Central America (PASO in Costa Rica)
 - To be adopted in other States
- ★ FSF: CAR and SAM Regions Safety Information Project
 - Group activity on going



Summary

- ★ ICAO is leading efforts to foster partnerships with States, international organizations, regional safety organizations, financial institutions and industry, in order to increase the capacity to assist States in managing civil aviation
- ★ States need to put in place robust and sustainable safety oversight systems and to progressively evolve them into more sophisticated means of managing safety
- ★ RASG-PA should be involved actively in the coordination and, to the extent possible, harmonization of all activities undertaken to address aviation safety issues at a regional level

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Action by the Meeting

- **★** Note the evolution of RASG-PA
- ★Support RASG-PA work through an effective participation in its activities
- ★ Promote and implement RASG-PA Safety Enhancement Initiatives (SEIs) and associated Detailed Implementation Plans (DIPs) as applicable and report to RASG-PA Secretariat

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