



Agenda Item 2: Beginning of the implementation of national safety plans

STATUS OF SAFETY MANAGEMENT IN THE SAM REGION

(Presented by the Secretariat)

SUMMARY	
This working paper presents updated information on the status of safety management in the SAM Region in the following areas:	
<ul style="list-style-type: none">✓ effective implementation (EI);✓ accidents;✓ runway excursion accidents;✓ SSP/SMS implementation; and✓ aerodrome certification	
References	
<ul style="list-style-type: none">• Report of the Fifth Meeting of Air Navigation and Flight Safety Directors (AN&FS/5) of the SAM Region, Lima, Peru, 20-22 August 2018.• Report of the Sixteenth Meeting of Civil Aviation Authorities (RAAC/16) of the SAM Region, Lima, Peru, 6-7 December 2018.• SAM Safety Plan (SAMSP).	
ICAO strategic objectives:	<i>A – Safety</i>

1. Introduction

1.1 The Thirteenth Meeting of Civil Aviation Authorities (RAAC/13) of the SAM Region, held in Bogotá, Colombia, on 4-6 December 2013, expressed its commitment to attaining the goals of the following safety areas by 2016: safety oversight, accidents, runway excursions, SSP/SMS implementation and aerodrome certification.

1.2 Once the deadline of the Declaration of Bogota was met, the SAM Region continued working on the improvement of the goals established in said Declaration.

1.3 In this regard, the Sixteenth Meeting of Civil Aviation Authorities (RAAC/16), held in Lima, Peru, on 6-7 December 2018, through Conclusion 16/02, approved the SAM Safety Plan (SAMSP). This plan establishes the long-term strategic objectives, as well as the indicators and goals of the SAM Region for the period 2020-2030.

2. Status of safety management in the SAM Region

Effective implementation (EI)

2.1 Within the context of the USOAP CMA, SAM States have been the subject of the following activities between November 2011 and May 2019: 5 CMA audits, 16 ICAO coordinated validation missions (ICVMs), 2 integrated validation activities (IVAs) and 5 off site observation activities. During this period, the SAM Region reached an average EI of **80.60%**, thus becoming one of the Regions with the highest level of compliance in the world.

2.2 During the 5 years and 6 months of the USOAP CMA, the SAM Region improved its EI by **14.32%**, an average annual improvement of **2.04%**. During this period of time, 12 of the 13 States that received some USOAP CMA activity showed significant improvement in their EI.

2.3 The performance of the SAM Region during the USOAP CMA showed that CEs 8, 7 and 4 and audit areas AIG, AGA and ANS have the lowest percentage of EI. **Appendix A** to this working paper contains a table with the average EI for each State.

Accidents

2.4 The accident rate in South America for scheduled commercial air transport operations with aeroplanes above 5 700 kg has been gradually decreasing since 2009, reaching a rate of **1.65** accidents per 1,000,000 departures in 2017, far below the global rate of **2.42**. During the years 2015, 2016 and 2017, the rate for the SAM Region remained below the global rate. In 2018, the accident rate increased from 1.64 (2017) to **3.17**, above the global rate of **1.75**. During that year, only one accident was recorded in this sector. **Appendix A** to this working paper contains a graph on the performance of the SAM Region regarding total accidents in this sector.

Runway excursion (RE) accidents

2.5 Starting in 2007, the RE accident rate showed a gradual decrease, except in 2011 and 2013. In 2014 and 2015, the rate for the SAM Region dropped to 0.5, increasing slightly in 2016 to 1.05, where it remained stable during 2017 and 2018. This year, only one accident was recorded in this sector. **Appendix A** to this working paper contains a graph that shows the performance of the SAM Region in this accident category and sector.

SSP/SMS implementation

2.6 Through the SAM SSP pilot implementation project, SAM States are moving forward in the implementation of SSP. Most States are finalising Phase 2 and tackling some elements of Phase 3. It is expected that at least three States will have a sustainable SSP by December 2019. Regarding SMS implementation, States will be requested, through surveys, to assess the level of SMS implementation in their service providers.

Aerodrome certification

2.7 Regarding **aerodrome certification** goals, the number of international aerodromes certified in the South American Region that appear in the ICAO CAR/SAM Air Navigation Plan has increased from 31, as reported at the ANFS/5 meeting, to 36 in May 2019, with the addition of five (5) new aerodromes. It is expected that during 2019 and early 2020, these figures will continue to increase by virtue of certification processes already started in several States. Furthermore, some States have suggested the

need to amend the Regional Air Navigation Plan to include new aerodromes with international operations, and exclude some that do not have international operations. Accordingly, these values are in constant change. **Appendix A** to this working paper contains a graph that shows the progress made in aerodrome certification.

3. Suggested action

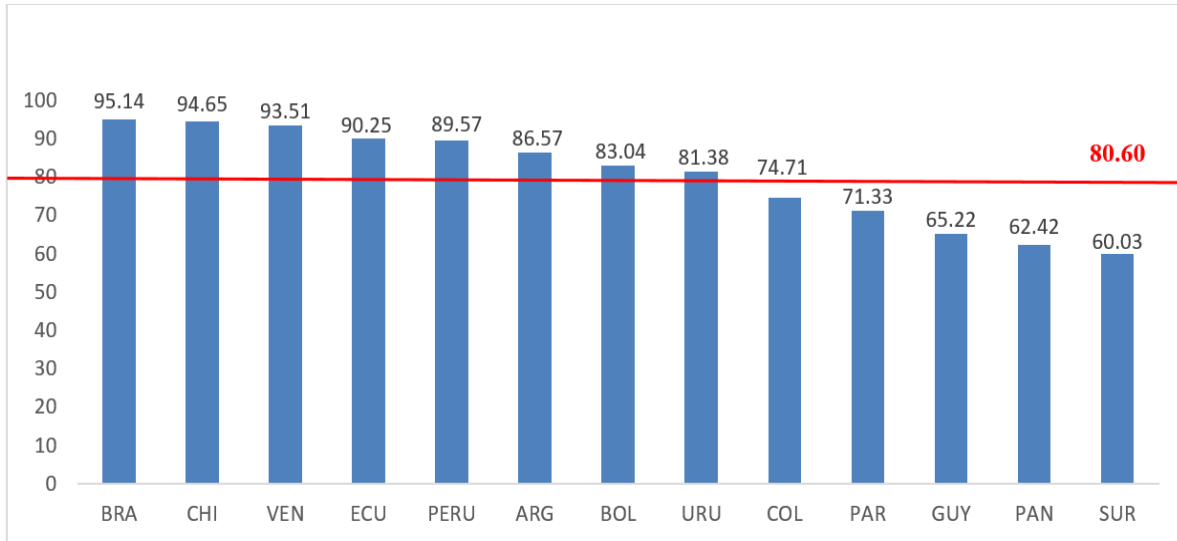
3.1 The Meeting is invited to:

- a) take note of the information presented in this working paper; and
- b) review and make comments on the performance of indicators that are the starting point for the planning and implementation of the new objectives, indicators and goals set forth in the SAM Safety Plan (SAMSP).

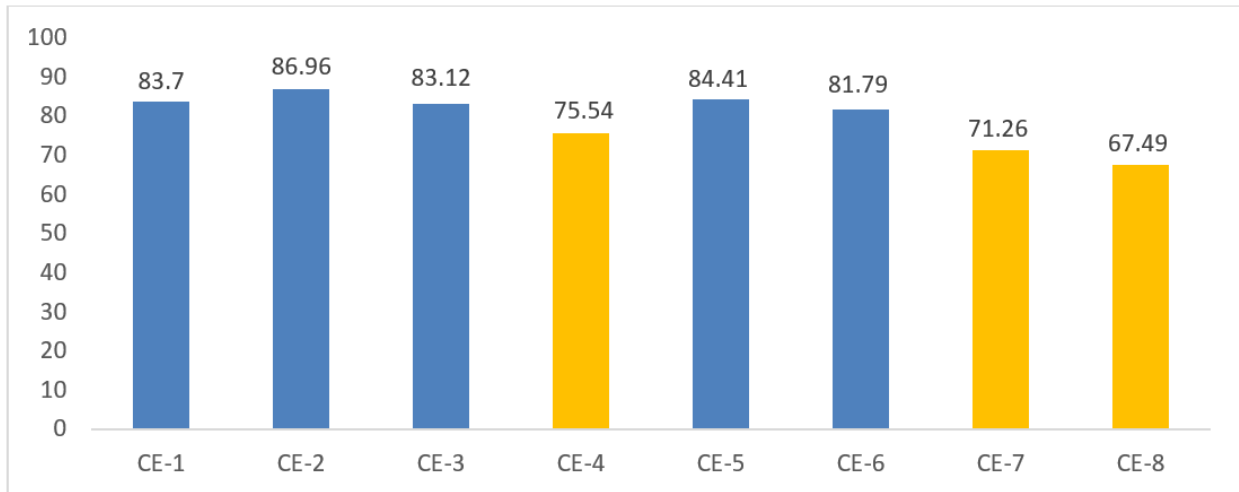
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APPENDIX A

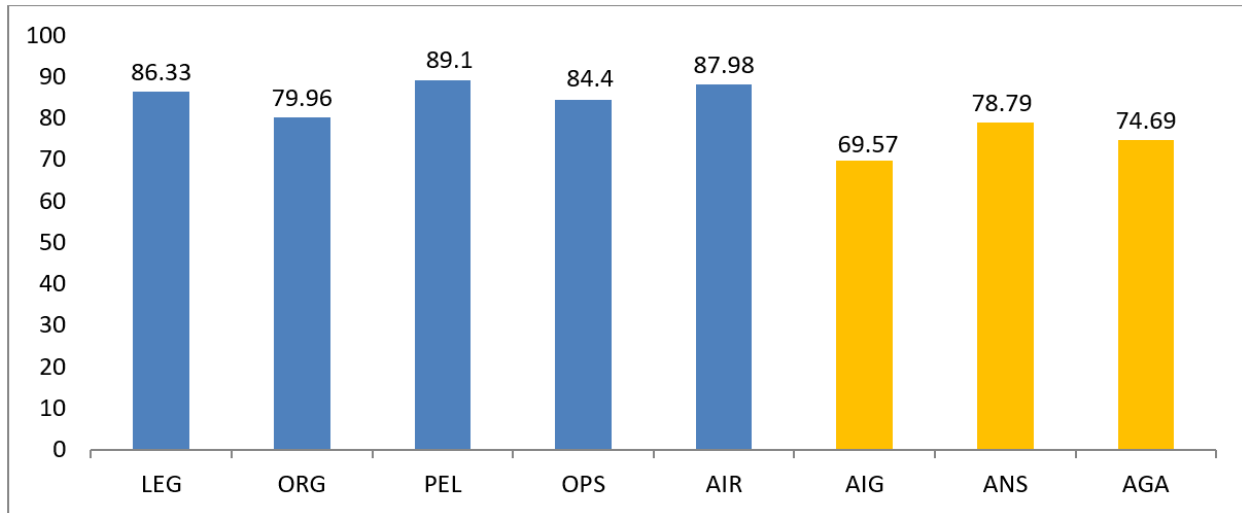
AVERAGE EFFECTIVE IMPLEMENTATION IN SAM STATES



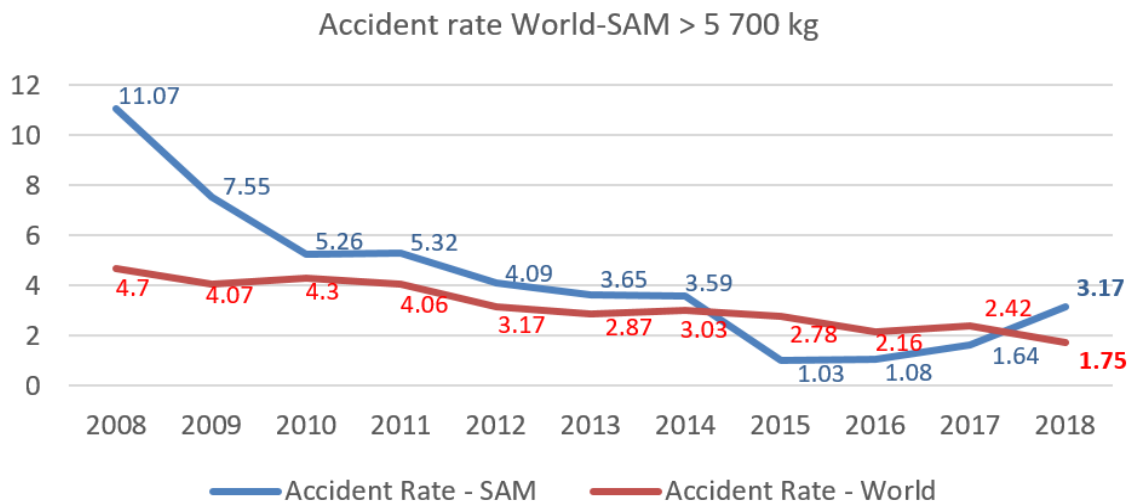
AVERAGE EFFECTIVE IMPLEMENTATION IN THE SAM REGION, BY CRITICAL ELEMENT (CE)



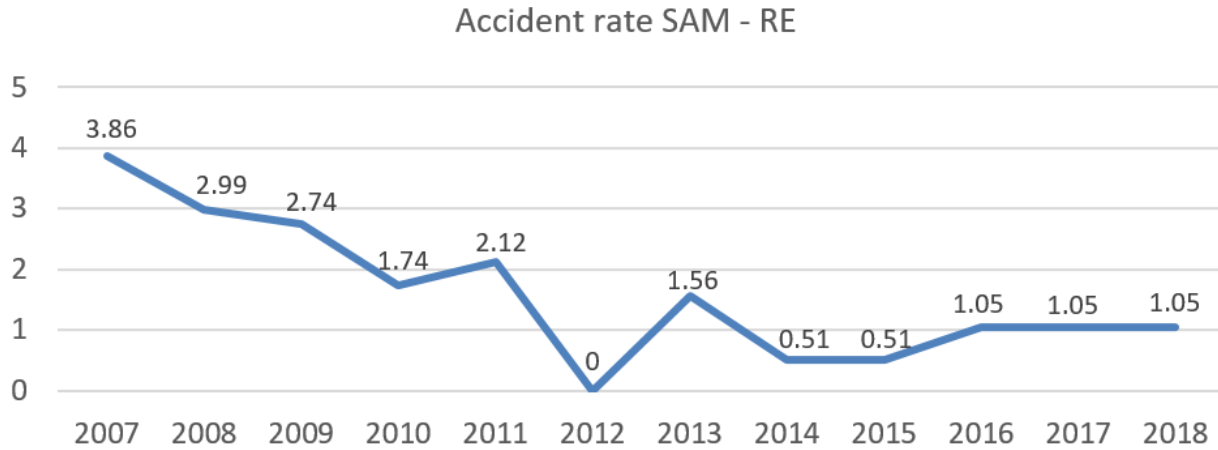
AVERAGE EFFECTIVE IMPLEMENTATION IN THE SAM REGION, BY AUDIT AREA



ACCIDENT RATE IN SCHEDULED COMMERCIAL AIR TRANSPORT OPERATIONS WITH AEROPLANES ABOVE 5 7000 KG



RUNWAY EXCURSION (RE) ACCIDENT RATE IN SCHEDULED COMMERCIAL AIR TRANSPORT OPERATIONS WITH AEROPLANES ABOVE 5 7000 KG



STATUS OF CERTIFICATION OF AERODROMES WITH INTERNATIONAL OPERATIONS IN THE SAM REGION (BY MAY 2019)

