

International Civil Aviation Organization

Third Meeting of the Middle East Regional Aviation Safety Group (RASG-MID/3)

(Kuwait, 27 - 29 January 2014)

Agenda Item 3: Regional Performance Framework for Safety

UPDATE ON THE SEIS & DIPS RELATED TO RGS

(Presented by RGS Coordinator)

SUMMARY

This working paper provides an update on initiatives made by MID-RAST in the area of Runway and Ground Safety (RGS) including updated drafts of the Safety Enhancement Initiatives (SEIs) and Detailed Implementation Plans (DIPs).

Action by the meeting is at paragraph 3.

1. Introduction

- 1.1 Runway and Ground Safety (RGS) has been identified by the MID Region Annual Safety Report Team (ASRT) as one of three main risk areas (Focus Areas) to be addressed under the RASG-MID framework.
- 1.2 According to the 2012 Regional Annual Safety Report, Global Runway Safety accidents represented 59% of all accidents accounting for 29% of all fatal accidents and 19% of all related fatalities reported between 2006 and 2010. In the MID Region, Runway Safety accidents represented 63% of all accidents accounting for 50% of all fatal accidents and 18% of all related fatalities reported and runway excursions represent 43% of the Runways Safety related accidents.

2. DISCUSSION

- 2.1 Further to the Runway Ground Safety update provided to the RASG-MID/2 meeting held in Abu Dhabi, UAE, 12 14 November 2012 (WP/9); the RGS SEIs and DIPs have been updated as follows:
- 2.1.1 The initial eight SEIs have been consolidated into three and the two supporting DIPs were combined into a single DIP in support of MID-RAST/RGS/01 as shown in **Appendices A** and **B**, respectively. The SEIs were consolidated according to the following table:

	Current	RASG-MID/2-WP/9				
MID- RAST/	Specific training for pilots and air traffic controllers to avoid un-stabilized approaches and promotion	MID- RAST/ RGS/1	Specific training for pilots and air traffic controllers to avoid un-stabilized approaches			
RGS/1	of pilot adherence to Standard Operating Procedures for approaches	MID- RAST/ RGS/2	Promote pilot adherence to Standard Operating Procedures for approaches including go-around decision making			
		MID- RAST/ RGS/3	Develop guidance material and training programs to support creation of action plans by local aerodrome runway safety teams.			
MID- RAST/ RGS/2	Develop guidance material and training programs to support creation of action plans by local aerodrome runway safety teams.	MID- RAST/ RGS/5	Timely and accurate notification regarding runway conditions and weather by AIS and ATS units			
		RAST- MID/ RGS/08	Identification of aerodrome Hot Spots and publish Hot Spot data in AIP if necessary. Development of Hot Spot charts will depend on aerodrome complexity and incident data/analysis. Each aerodrome should positively respond that analysis has been undertaken at a minimum.			
		MID- RAST/ RGS/4	Promote /monitor Implementation RESA including other means such as arresting systems			
MID- RAST/ RGS/3	Focus on Aerodrome Infrastructure and Maintenance Management	MID- RAST/ RGS/6	Regulation, guidance and specific training in relation to maintaining aerodrome runway/taxiway related markings			
		MID- RAST/ RGS/7	Regulation, guidance and specific training in relation to maintaining runways in accordance with Annex 14			

2.1.2 Further to the update of Global Aviation Safety Plan (GASP) and its approval by the Air Navigation Commission (AN-WP/8726, 28 February 2013), the three SEIs were reviewed and realigned to the GASP as follows:

SEI	GASP Safety Initiative (ICAO Doc 10004)	Best Practices Supporting GASP Safety Initiative (ICAO Doc 10004, Appendix 2)
MID- RAST/RGS/1	Safety Management Standardisation: Consistent Implementation of Safety Management Systems Implementation of Risk-Based Standardization Initiatives Safety Oversight Standardization: Compliance with National Regulations and Adoption of Industry Best Practices	BP-GEN-1 BP-GEN-2 BP-GEN-4 BP-STD-I-1 BP-STD-I-4
MID- RAST/RGS/2	Safety Management Collaboration: Promotion of a Multi-Disciplinary Risk Management Approach Safety Information Exchange: Support of Safety Management Implementation	BP-GEN-1 BP-GEN-2 BP-GEN-4 BP-GEN-6 BP-STD-I-4 BP-SIE-I-3

RAST/RGS/3 Consistent I Safety Over Consistent I StandardsCo	agement Standardization: nplementation of Safety Management Systems sight Standardization: nplementation of International ompliance with National Regulations and Industry Best Practices	BP-STD-S-11 BP-STD-I-2 BP-STD-I-4
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3. ACTION BY THE MEETING

3.1 The meeting is invited to review and endorse the SEIs and DIPs related to Runway and Ground Safety (RGS) at $Appendices\ A$ and B.

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ADDENITY A

Runway Ground Safety (RGS) SEIs - Mohammad Al Dossari - UAE General Civil Aviation Authority

No	Safety Enhancement Action	GASP Safety Initiative (ICAO Doc 10004)	Best Practices Supporting GASP Safety Initiative (ICAO Doc 10004, Appendix 2)	Safety Impact	Changeability	IC Indicator	Priority	Possible Champion	Time Frame	Notes
MID-RAST/RGS/1	Specific training for pilots and air traffic controllers to avoid unstabilized approaches and promotion of pilot adherence to Standard Operating Procedures for approaches including go-around decision making	Safety Management Standardisation: Consistent Implementation of Safety Management Systems Implementation of Risk-Based Standardization Initiatives Safety Oversight Standardization: Compliance with National Regulations and Adoption of Industry Best Practices	BP-GEN-1 BP-GEN-2 BP-GEN-4 BP-STD-I-1 BP-STD-I-4	High	Moderate	P2	1	ICAO, IATA, CANSO, IFALPA, States and Operators	Short Term	Pilot training is top priority of RAST-PA and RAST-AP. DIP may be coordinated on global level - or benchmarked against other regions. ASR Comment: 4.1.3.2.1 - RE Accidents - 83% occur during landing and 67% during daytime - 'Flight Crew Procedures' meaning non-compliance with SOPS was present in 59 accidents See 4.1.2.4.1 and 2 - Top Common incidents/occurrences from MID reports - "Unstable Approach" with Root Cause airport/airline of SOP Compliance and Training.
MID-RAST/RGS/2	Develop guidance material and training programs to support creation of action plans by local aerodrome runway safety teams.	Safety Management Collaboration: Promotion of a Multi-Disciplinary Risk Management Approach Safety Information Exchange: Support of Safety Management Implementation	BP-GEN-1 BP-GEN-2 BP-GEN-4 BP-GEN-6 BP-STD-I-4 BP-SIE-I-3	High	Easy	P1	2	ICAO-MID - Nominated State Champion - ACI - COSCAP	Mid-Term	ASR Comment: 4.1.3.2.1 - RE Accidents - 83% occur during landing and 67% during daytime - weather is contributing in 47% (1st rain/2nd windsheer) Runway Incursion data not included in RASG-MID ASR - First Edition - however acknowledged by RSC/01 Agenda Item 2 paragraph 2.14

Detailed Implementation Plan Template

Rast No	Safety Enhancement Action	GASP Safety Initiative (ICAO Doc 10004)	Best Practices Supporting GASP Safety Initiative (ICAO Doc 10004, Appendix 2)	Safety Impact	hangeabili	Indicator	Priority	Time Frame
	Specific training for pilots and air traffic controllers to avoid unstabilized approaches and promotion of pilot adherence to Standard Operating Procedures for approaches	Safety Management Standarzation: Consistent Implementation of Sfaety Management Systems Implementation of Risk-Based Standarization Initiatives Safety Oversight Standarization: Compliance with National Regulations and Adoption of Industry Best Practices	BP-GEN-1 BP-GEN-2 BP-GEN-4 BP-STD-I-1 BP-STD-I-4	High	Moderate	P2	1	Short Term

Safety Enhancement Action (expanded)	Promote specific training for pilots and air traffic controllers to avoid unstabilized approaches and pilot adherence to Standard Operating Procedures for approaches including go-around decision making through ICAO guidance, States' oversight and guidance, Operators' SMS and industry lead awareness and training initiatives. The initiatives seeks to leverage existing regulatory framework and industry events.
Statement of Work	ICAO Actions 1. Publish circular requiring States to provide increased oversight Audits using risk based approach and the necessary guidance on pilot adherence to SOPs. 2. Publish circular requiring States to implement safety promotion and associated training programmes including strategies to avoid unstabilized approaches for Pilots and Air Traffic Controllers. 3. Review ICAO work programme and consider including the subject as part of relevant regional workshops and existing symposiums where deemed applicable. 4. Ensure SEI is added to the MID-Region Strategic Plan.

Champion Organization	ICAO, IATA, FSF, IFALPA, IFATCA and CANSO
	 ICAO - International Civil Aviation Organisation (MID and HQ) IATA - International Air Transport Association (MENA and HQ)
	• IFALPA - International Federation of Airline Pilot's Association
Human Resources	CANSO - Civil Air Navigation Services Organisation
	• States
	Aircraft Operators
Financial Resources	
	ICAO Runway Safety Program
	ICAO/IATA Runway Excursion Risk Reduction Toolkit
	FSF Approach and Landing Accident Reduction (ALAR) Toolkit (version June 2010)
	FSF Runway Safety Initiative (RSI) - "Reducing the Risk of Runway Excursions"
	FSF Operators Guide to Human Factors in Aviation (FSF European Advisory Committee)
Relation with Current Aviation Community	FSF Annual Flight Safety Conference (most recent in September 2012)
Initiative	France Directorate General of Civil Aviation - Unstabilized Approaches
	France Directorate General of Civil Aviation - Stabilised Approaches Good Practice Guide
	France Directorate General of Civil Aviation - Synthesis on Unstable Approaches
	EWGRS - European Action Plan for the Prevention of Runway Excursions
	Airbus - Safety Library - Flight Operations Briefing Notes - Approach Techniques
Performance Goal	Reduce relative number of runway excursions.
	MID-Regional Safety Strategy: Reduce Runway Excursions related accidents by 50% by the end of 2017.
Indicators	Reduction of runway excursions resulting from unstable approaches, as a percentage of total movements, for 2013 and 2014.
Key Milestones (Deliverables)	Organize a workshop for Regional Runway Safety during year 2014. Publish available guidance materials on RASG-MID website. Train pilots and air traffic controllers.

Potential Blockers	Availability of required human resources from identified organisations Availability of financial resources			
Responsible	 ICAO - International Civil Aviation Organisation (MID and HQ) IATA - International Air Transport Association (MENA and HQ) IFALPA - International Federation of Airline Pilot's Association CANSO - Civil Air Navigation Services Organisation Mid-Region States Mid-Region Aircraft Operators 			
DIP Notes	Pilot training is top priority of RAST-PA and RAST-AP. DIP may be coordinated on global level - or benchmarked against other regions. ASR Comment: 4.1.3.2.1 - RE Accidents - 83% occur during landing and 67% during daytime - 'Flight Crew Procedures' meaning non-compliance with SOPS was present in 59 accidents See 4.1.2.4.1 and 2 - Top Common incidents/occurrences from MID reports - "Unstable Approach" with Root Cause airport/airline of SOP Compliance and Training.			