

Second Meeting of the RASG-MID Steering Committee (RSC/2)

(Amman, Jordan, 28 – 30 October 2013)

Agenda Item 3: Regional Performance Framework for Safety

UPDATE ON DEVELOPMENT AND IMPLEMENTATION OF SIES & DIPS RELATED TO LOC-I

(Presented by LOC-I Coordinator)

SUMMARY

This paper presents the Safety Enhancement Initiatives (SEIs) and one Detailed Implementation Plan (DIP) to mitigate risks of LOC-I.

Action by the meeting is at paragraph 3.

1. Introduction

1.1 LOC-I was identified as one of the high risk areas to be addressed within the framework of RASG-MID.

2. DISCUSSION

2.1 The MID Region Aviation Safety Team (MID-RAST) agreed to develop three SEIs and one DIP related to LOC-I.

3. ACTION BY THE MEETING

3.1 The meeting is invited to review and endorse the SEIs and DIP for LOC-I as in **Appendices A and B** to this working paper.

Loss of Controll In-Flight (LOC-I) - Mr. Chamsou I-Andjorin - Boeing

DIP	RAST No	Safety Enhancement Action	Reference	GSI	Safety Impact	Changeability	IC Indicator	Priority	Possible Champion	Time Frame	Notes
	RAST-MID/LOC-I/1	Policies and Procedures to prevent LOC-I, including clear SOPs, Risk management, Communication, and flight crew proficiency	SE26, 27, 28 and 29	7	Medium	Easy	P4	1	IATA/ICAO/ Manufacturers	short	OPERATORS: This safety enhancement ensures that all airline operators publish and enforce clear, concise, and accurate flight crew SOPs. These SOPs should include expected procedures during pre/post flight and all phases of flight; i.e., checklists, simulator training, PF/PM duties, transfer of control, automation operation, rushed and/or unstabilized approaches, rejected landings and missed approaches, inflight pilot icing reporting, and flight crew coordination. Operator instructors and check airmen should ensure these SOPs are trained and enforced in their aircrew proficiency and standardization programs. STATES: Verif y that Policies and Procedures are in place and actively followed.
	RAST-MID/LOC-I/3	Training to prevent LOC-I: Human Factors and Automation	SE 30	9	High	Moderate	P1	2	IATA/ICAO/ Manufacturers	Long	This safety enhancement collects and provides advanced maneuver training material and encourages Part 121 operators to use these materials to implement advanced maneuver ground and flight training using appropriate flight training equipment. Emphasis should be given to stall onset recognition and recovery, unusual attitudes, upset recoveries, effects of icing, energy awareness and management, and causal factors that can lead to loss of control.
		Training to prevent LOC-I – Advanced Maneuvers – Implement Ground and Flight Training (1-3)	SE 31	9	High	Moderate	P1	3	ICATEE	Long	Advanced Maneuvers Training (AMT) refers to training to prevent and recover from hazardous flight conditions outside of the normal flight envelope. Examples include in flight upsets, stalls, ground proximity and wind shear escape maneuvers, and inappropriate energy state management conditions.

RSC/2-WP10 APPENDIX B Appendix B

DETAILED IMPLEMENTATION PLANS (DIPS)

Rast No.	Safety Enhancement Action	Reference	GSI	Safety Impact	Changeability	Indicator	Priority	Time Frame
AST-MID/LOC-I/3	To improve the overall performance of flight crews to recognize and prevent loss of control accidents, through effective use of automation.procedures	SE 30		High	Moderate	P2	3	Short
Safety Enhancement:	To improve the overall performance of flig technology is utilized, at such airfields, to							
Statement of Work:	To reduce loss of control accidents, opera management aspects of flight deck autom				d procedures rela	ting to mode a	wareness and	d energy state
Champion Organization:	MID-RAST							
Human Resource:	IATA, Pilot Associations; Safety, Flight Operations and Training managers; ICAO, CAA's, aircraft manufacturers, training centers							
Financial Resource:								
Relation Current Aviation Community Initiative:	management). position regarding	ng to mode awar current and page CRM and Hurles and criteria	rojected oper	energy state rational use, the sa with respect to the signers, engineers,				
Performance Goal	Goal 1: Mitigate the effects of mode confusion and energy state management as contributing factors in loss of control accidents. Indicator: A measurable reduction of loss of control incidents and accidents related to automation. Goal 2: Mode awareness and energy state management aspects of light deck automation advisory circular is readily available. Indicator: Each ICAO contracting State in the region has issued an advisory circular and distributed it to each operator's in the State. Completion of Output 3. Goal 3: All operators incorporate mode awareness and energy state management aspects of flight deck automation guidance in their approved training programs. Indicator: Mode awareness and energy state management aspects of flight deck automation guidance is provided to all transport airplane pilots Completion of Output 4.							
Indicators:	Maintain the MID CFIT accident rate at 20	12 level						
Key Milestones:	The following milestones are based on the date of Steering Committee Approval (SCA) (months): *Review MID advisory circular IATA SCA+6 *Issue generic advisory circular ICAO Output 1+1 *Issuance of advisory circular by States in the Region. CAAs Output 2+6 *Operators develop guidance based on the AC and train pilots. Operators Output 3 + 18 *Track Implementation MID-RAST SCA +12 and yearly							
Potential Blockers:	*Operator might not embrace advisory circ *Operators might not accept the potential *Operators may not recognize the safety c *States may opt not to adopt and issue the	cost of this training, enhancement benefits,						

Responsible

To reduce loss of control accidents, air carriers will be encouraged to adopt consensus policies and procedures relating to mode awareness and energy state management, as appropriate to their respective operations.

RAST-PA/LOC-I/6 Output 1:

Description: Review and evaluate the advisory circular to be created by the ICAO

•AACO / IFALPA / IATA team to review and evaluate the advisory circular created by the ICAO related to mode awareness and energy state management of flight deck automation.

•Based on this review create a generic advisory circular for the region

Resources

Resource Notes: AACO, IFALPA, IATA, Flight Operations, Safety and Training managers, and Aircraft Manufacturers.

Actions: AACO / IFALPA / IATA will convene a team to analyze the advisory circular, to verify policies and procedures related to mode awareness and energy state management are appropriate for the region. The team will develop a generic mode awareness and energy state management aspects of flight deck automation advisory circular for MID.

Target Completion Date:

Time Line: SCA + 6 months RAST-PA/LOC-I/6 Output 2:

Description: •ICAO will distribute a copy of the developed generic advisory circular to each State in the region. Resources

Resource Notes: ICAO
Actions: ICAO regional Offices will prepare a cover letter and disseminate the generic advisory circular to each member State in the region.
Target Completion Date:

Time Line: Completion of Output 1+ 1 months

RAST-PALCO-16 Output 3

Description: • Each State in the region will use the generic advisory circular as a template to prepare a State advisory circular on mode awareness and energy state management aspects of flight deck

automation.

Resources: Resource Notes: State regulatory authorities

Actions: States in the region to issue their own advisory circular on mode awareness and energy state management aspects of flight deck automation.

Target Completion of output 2 + 6 months

RAST-PALOC-I/6 Output 4: Description: Mode awareness and energy state management aspects of flight deck automation guidance is provided by operators to all of their pilots.

Resource Notes: Operator's flight operations, standards and training departments.

Actions: Each operator should carefully developed procedures and guidelines that support the proper use of mode awareness and energy state management aspects of flight deck automation in their training programs. Each transport airplane pilot should be trained to the flight deck automation procedures and guidelines developed by their organization.

Target Completion Date: Time line: Completion of Output 3 + 18 months