



ICAO | UNITING AVIATION



# LOSS OF CONTROL-IN FLIGHT AND UPSET PREVENTION AND RECOVERY TRAINING SYMPOSIUM

## INTRODUCTION

**ORGANIZED BY KENYA CIVIL AVIATION AUTHORITY IN COLLABORATION WITH ICAO  
EASTERN AND SOUTHERN REGIONAL OFFICE  
Hotel Laico Regency, Nairobi, 22-24 June 2015**



## LOSS OF CONTROL-IN FLIGHT AND UPSET PREVENTION AND RECOVERY TRAINING SYMPOSIUM

- Symposium objective
- Symposium programme structure
- Methodology
- Facilitators
- Programme
- Administrative issues



# LOSS OF CONTROL-IN FLIGHT AND UPSET PREVENTION AND RECOVERY TRAINING SYMPOSIUM

## OBJECTIVES OF THE SYMPOSIUM

- To get attendees have a better understanding of LOC-I issues
- To impart knowledge on ICAO SARPs and guidance material on UPRT
- To emphasize States' responsibilities and provide guidance to CAAs inspectors in implementing UPRT requirements



# LOSS OF CONTROL-IN FLIGHT AND UPSET PREVENTION AND RECOVERY TRAINING SYMPOSIUM ...OBJECTIVES OF THE SYMPOSIUM

- To examine the recommendations of the ICATEE (International Committee for Aviation Training in Extended Envelopes)
- To review UPRT: UPRT Techniques; On-Airplane training; FSTD training; and Industry best practices
- To sensitize air operators and training organizations on requirements for UPRT
- To raise on a regional level awareness on LOC-I and UPRT
- To foster a regional and collaborative approach on the way to address LOC-I and UPRT safety issues.



# LOSS OF CONTROL-IN FLIGHT AND UPSET PREVENTION AND RECOVERY TRAINING SYMPOSIUM

## FRAMEWORK OF THE SYMPOSIUM

- ✓ RASG-AFI
- ✓ Emerging Safety Issues Safety Support Team
  - Champion: Kenya-Cpt. Joe Mutungi: Director Aviation Safety, Security and Regulation
  - Coordinator: ESAF Regional Office-Papa Issa Mbengue, Regional Officer, Aircraft Operations
- ✓ Abuja Safety Targets
- ✓ LOC-I Project Document



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## PROGRAMME

- **UNDERSTANDING THE PHENOMENON 1<sup>st</sup> day**
- **UPSET PREVENTION AND RECOVERY  
TRAINING: 2<sup>nd</sup> day**
- **WAY FORWARD 3<sup>rd</sup> day**



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## UNDERSTANDING THE PHENOMENON

### Overview of LOC-I

- ✓ Definition of LOC-I
- ✓ Worldwide situation
- ✓ Aerodynamics and flight mechanics
- ✓ Airplane protections and automation
- ✓ Contributing causes to upsets and LOC-I

### LOC-I accidents

- ✓ Kenya Airways case
- ✓ Ethiopian Airlines case
- ✓ Mali air accident



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## UPSET PREVENTION AND RECOVERY TRAINING

- ✓ ICAO SARPS and Guidance Material
- ✓ States (CAAs) and Industry (Air Operators and ATOs) responsibilities
- ✓ ICATEE(International Committee for Aviation Training in Extended Envelopes)
- ✓ Adequacy of means of Training
- ✓ Flight simulation training devices(FTSDs)
- ✓ On-Airplane training
- ✓ training needs
- ✓ training task analysis
- ✓ training solutions (academic training, simulators, on-aircraft training)
- ✓ instructor qualification
- ✓ safety issues regarding training
- ✓ industry best-practices on training



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## WAY FORWARD

### RASG-AFI

- ✓ RASG-AFI and Terms of reference Safety Support Group on LOC-I
- ✓ Regional approach
- ✓ Abuja Safety Targets
- ✓ LOC-I Project Document
- ✓ Plan of action
- ✓ Training gap
- ✓ Implementation
- ✓ Monitoring
- ✓ Resources and constraints



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## WAY FORWARD

- **Panels**
  - ✓ Panel 1 on Training
  - ✓ Panel 2 on Other mitigations measures

TIME (DAY 1)	MONDAY	TIME (DAY 2 & 3)	TUESDAY	WEDNESDAY
08.00 - 09.00	Registration, welcoming and introductions	08.30-09.10	Upset Prevention and Recovery Training Provisions: What are they saying? (ICAO)	LOC-I (NTSB)
09.00 - 09.15	Opening Remarks KCAA	09.10-09.50	Upset Prevention and Recovery Training Provisions: What are they saying? (ICAO)	LOC-I (NTSB)
09.15-09.30	Speech by AFRAA Secretary General			
09.30-09.45	Speech by ICAO ESAF Regional Director			
09.45-10.00	Group Photo	09.50-10.00	UPRTand Flight Simulation Training Devices : Stall and UPRT Implementation(ICAO/CAE)	Discussions
Tea: 10 - 10.30		Tea: 10.00 - 10.30		
10.30-11.00	Overview on LOC-I (ICAO/KCAA)	10.30-11.00	Discussions (Moderator: ICAO)	RASG-AFI LOC-I Team Implementation: Way Forward in addressing LOC-I (ICAO/KCAA)
11.00-11.30	LOC-I and Airplane State Awareness: Analysis and Safety Enhancements:(Boeing International)	11.00-12.00	UPRT Regulations (IDT)	Outcome of the ICAO Montreal Symposium(IDT) The Way Forward (IDT)
11.30-12.30	Introduction to LOC-I (International Development Technology-IDT)	12.00-13.00	ICATEE on Aircraft UPRT Recommendations and Considerations: (Aviation Performance Solutions-APS)	Way Forward (Panel One: Training- ICAO/IDT)
12.30-13.00	Discussions			
Lunch: 13.00 - 14:00		Lunch: 13.00 - 14.00		
14.00-14.30	Case study: Kenya Airways accident(Kenya Department of Air Accident Investigations)	14.00-14.30	UPRT in the Simulator (IDT)	Way Forward (Panel Two: Other Mitigation Measures: ICAO)
14.30-15.00	Case study: Air Algeria Accident in Mali (IDT)	14.30-15.00	Dealing with Unexpected Events (IDT)	Way Forward (Panel Two: Other Mitigation Measures: ICAO)
15.00-15.30	Ethiopian Airlines accident review (ICAO) Flight Crew Fatigue Risk Management (IDT)	15.00-15.30	Instructor Requirements for Airline UPRT (APS)	Way Forward: Conclusion for the Symposium
Tea: 15.30 - 16.00		Tea: 15.30 - 16.00		
16.00-16.30	LOC-I and Mitigation measures (Kenya Airways)	16.00-16.30	UPRT Best Practices: Mitigating LOC-I, Aviation Most Lethal Threat(South African Airways-SAA)	Closing Ceremony: Closing remarks by KCAA and issuance of Certificates to participants
16.30-17.00	Effectice Upset Prevention and Recovery Training (IFALPA)	16.30-17.45	Discussions (Moderator: ICAO/IDT/APS/SAA)	
17.00-17.15	LOC-I: General Aviation (CASSOA)			
17.15-17.30	Discussions			



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## METHODOLOGY

- Presentations by the facilitators
- Interactive discussions
- Exchange of experience
- Panels

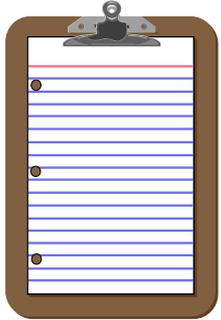


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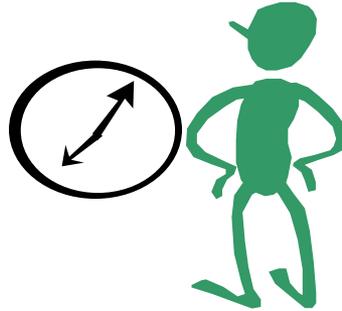
## FACILITATORS

- Mr. Henry Defalque: Technical Officer, Licensing and Operations, ICAO Headquarters in Montreal
- Cpt. Joe Mutungi: Director Aviation Safety, Security and Regulation, Kenya Civil Aviation Authority
- Mr. Chamsou Andjiron: Safety Director Africa and Middle East, Boeing Company
- Cpt. Clarke Otter Mc Neace: Vice President, Flight Training and Standards, Aviation Performance Solutions
- Dr Sunjoo K. Advani, President, International Development Technology b. v., The Netherlands
- Cpt. Samir Ahmed Regional Vice President, AFI/East, IFALPA
- F/O Brad Bennetts, South African Airways
- Colonel Enos Ndoli, Kenya Department of Aviation Accidents Investigation
- Mr. Robert Mwesigwa Nviiri Ag. Executive Director CASSOA – Uganda
- Mr. Dennis Jones, Chief Technical Advisor, Office of Aviation Safety, NTSB

# Administrative Issues



Data form



Punctuality



Participation



No smoking



No phones



Feedback form



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# THANK YOU