



# *Middle East Regional Runway Safety Seminar (MID)*

ICAO MID Regional Office, Amman, Jordan, 14-16 May 2012

## *Runway Excursion (ATS perspective)*

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# Runway Excursion..

## ❖ Definition:

- A veer-off or overrun off the runway surface.
  - **Veer-off** : type of Runway Excursion where a departing aircraft rejecting take-off, or a landing aircraft depart the side of the active runway.
  - **Overrun** : type of Runway Excursion where a departing aircraft fail to successfully reject, or a landing aircraft unable to stop before the end of the active runway.



# Runway Excursion (Main factors/Hazards)

## Most common contributing factors in Runway Excursion from ATS perspective..

- ❖ ATCOs non-adherence with procedures
- ❖ Lack of awareness of the importance of stabilized approach criteria
- ❖ Late runway change
- ❖ Wrong selection of runway direction



# Runway Excursion (Main factor/Hazards)

**Most common contributing factors in Runway Excursion from ATS perspective.. continued..**

- ❖ Lack of awareness of the importance to report runway condition to the crew
- ❖ ATCO Fails to provide wind shear information to the crew
- ❖ ATS clearance/instructions to the crew to maintain speed higher than the optimum approach speed required



# Runway Excursion (Main factors/Hazards)

Most common contributing factors in Runway Excursion from ATS perspective.. **continued..**

- ❖ Pilot non-adherence with procedures
- ❖ Crossing of the active runway
- ❖ Aircraft avoid FOD on runway surface





# Runway Excursion (Main factors/Hazards)

Most common contributing factors in Runway Excursion from ATS perspective.. **continued..**

❖ Weather conditions/ wet runway



❖ Missing or lack of Low Visibility Procedures(LVP)



# Runway Safety Committee(RSC)

**Runway Safety Committee was established at King Abdulaziz International Airport in Jeddah (KAIA) since 2009. Main objectives:**

- ❖ Enhance the operational safety on the aircraft maneuvering areas (Runways and Taxiways)
- ❖ Monitor the activities of airport improvement constructions
- ❖ Mitigate all hazards related to Runway incursions/excursions





# Runway Safety Committee(RSC)

**The concerned stakeholders in the Runway Safety Committee in KAIA are:**





- Airport directorate(Operations-SQA- maintenance)
- Airport FRS.
- ANSP (ANS/SQA-ATS unit).
- National airline (Saudi airlines).
- Management Services Providers (Fraport)



## RSC term of reference ...

-  Active participation of all relevant parties to runway safety Committee.
-  Acting in coordinate manner.
-  Promote safety culture among Staff involved in Airside activities.
-  Provide applicable recommendations and advices to enhance the operational safety on the maneuvering area.


## RSC term of reference ... Cont'd


-  Review of regular reports on movement areas inspections.
-  Large consultation on Low Visibility procedures(LVP).
-  Conducting regular exercises on LVPs to check the readiness and the level of understanding.
-  Update of Aerodrome manual based on recommendations/mitigations of Runway incursions /excursions .

# Runway Excursion..

## ➤ Possible mitigations

### ✓ Cooperation between ANSP/Aircraft operators

 Conduct joint awareness sessions/seminars on:  
Arrival and approach requirements - Runway excursion - stabilized approach - aircraft performance

 Set up familiarization programs where ATCOs and pilots can attend/observe the activities related to ATS and aircraft operations



# Runway Excursion..

## ➤ Possible mitigations

### ✓ **ATS Procedures - ANSP**

- ✈ Ensure that ATCOs comply with ELP requirements and use ICAO phraseology(Doc4444) during communication with approaching aircraft.
- ✈ Restrict late runway change and speed control during approach
- ✈ Ensure that ATCOs comply with ATS requirements for the reporting of current weather information and runway conditions





THANK YOU