



Runway Safety in Japan

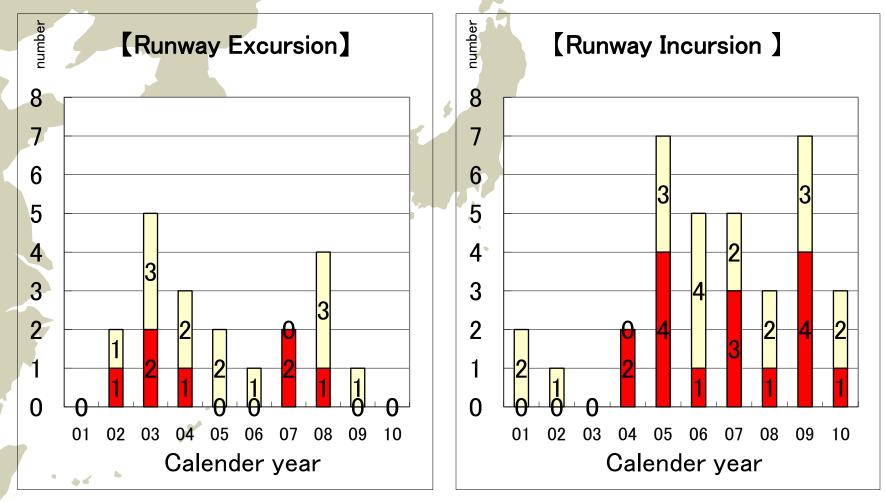
Katsuyuki Nakatsubo

Electronic Navigation Research Institute, Japan





Serious incident and Minor incident



: Serious incident

: Minor incident



Measures Taken(1) –Runway Excursion –









Risk: Inappropriate operation by pilots Measure: Revision of Operating procedures, Crew Training such as SIM training on turbulent weather (LOFT)

Risk: High cost of expanding new RESA site due to mountainous geography Measure: Consideration of alternative mitigating measures for these airports instead of expansion of RESA

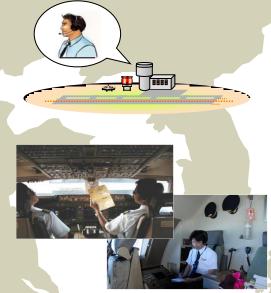
Risk: Runway condition

Measure: Maintain appropriate transverse slopes, grooving, Periodic check and removal of FOD

Risk: Lack of information on rainy/icy ground condition

Measures: Checking/Reporting friction coefficient and ground condition







Measures Taken(2) –Runway Incursion –



Risk: Miscommunication between ATC and pilots Measure: Read-back rules, Reminder for similar call sign, Sharing common recognition among all ATC staffs and pilots

Risk: Lack of appropriate training for ATC/pilots Measure: Revision of Operating procedures, Crew Training (Application of LOSA/FOQA), Simulator training for ATC

Risk: Lack of appropriate visual aids and surveillance Measure: Improvement of visual aids, Improvement of

ATC support functions through enhanced ground surveillance such as Multilateration,

Other: Sharing of safety information among airport management and flight operators in each airport

 Efforts from administration side Implementation of State Safety Programme (SSP)
Streamlining administrative organization for multidisciplinary/holistic approach for effective SMS including runway safety





Activities for the Future

- Introduction/Improvement of various tools/aids such as RWSL
 - Standardization to avoid confusion
- R&D activities including those on Human Factor related issues
 - A/G-G/G communications, training of ATC/Pilot, fatigue etc.
 - Sharing of runway safety data
 - Measures based on experiences of other states
 - Non-punitive reporting system