

## Sharing on Safety and Risk Assessment Process in GBAS Trial of HKIA

### Flimsy 01



# HKCAD Safety and Risk Assessment Process

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- Safety Case Assessment Report System (SCARS)
- SCARS Workshop
  - Participation by relevant stakeholders, e.g. project engineer, maintenance engineer, controller, airport standard regulator
  - Introduction of work scope / changes by the project engineer
  - Brainstorming and discussion
  - Standard SCARS Report Form to be completed by the participants of the SCARS workshop:-
    - ✓ Part A: Assess the Size of the Change
    - ✓ Part B: Preliminary Hazard Analysis (PHA) to identify hazards and planned / existing controls



# HKCAD Safety and Risk Assessment Process

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- Deliverables: SCARS Report -- Overall Safety Magnitude of the Change identified according to:
  - Size of the change
  - Scale of the potential for severe effect
- The control measures identified shall be completed with documented evidence before implementation in order to maintain acceptable level of safety

# Safety and Risk Assessment for GBAS Trial at HKIA

- Two SCARS workshops were conducted for the GBAS trial
  - Equipment and engineering
  - GLS flight procedures and Operations
- Stakeholders:
  - Engineering
  - Air Traffic Control
  - Airworthiness
  - Flight Standard
  - Airport Operator
  - Airport Standard
  - Airline
- Hazard and control measures identified. Examples:
  - FOD – site management
  - System failure – GLS operation under low visibility prohibited, on-site engineer
  - Flight Validation on system performance and flight procedure

