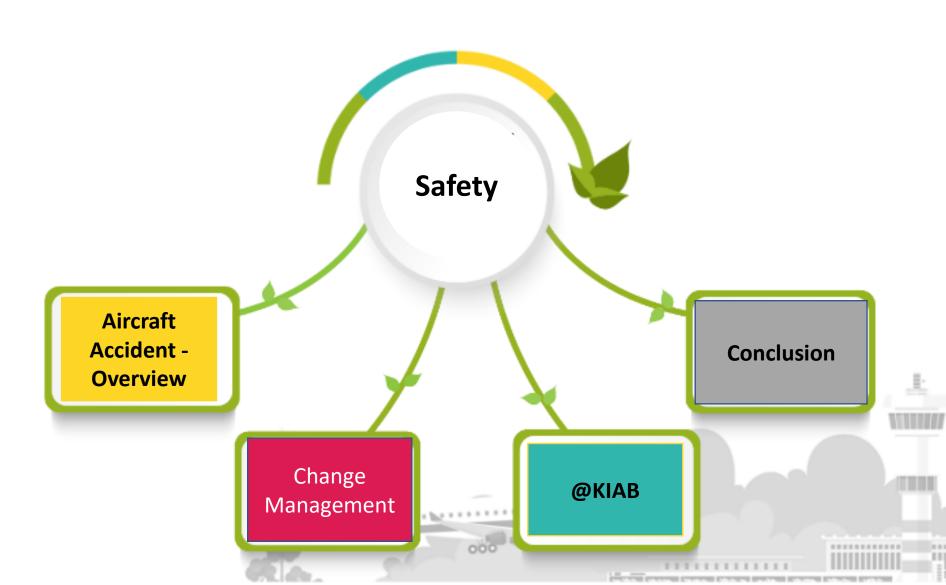


Operated by

Bangalore International Airport Limited (BIAL)

Agenda







18 Nov 2022- 15:11 (LT)- LATAM A320 LA2213, Lima to Juliaca, Peru hit CFT while rolling for takeoff from RWY 16.



Heartfelt Condolences

Our sincere condolences to the family members of the heroic firefighters

Nicolás Santa Gadea, Angel Torres & Manuel Villanueva.



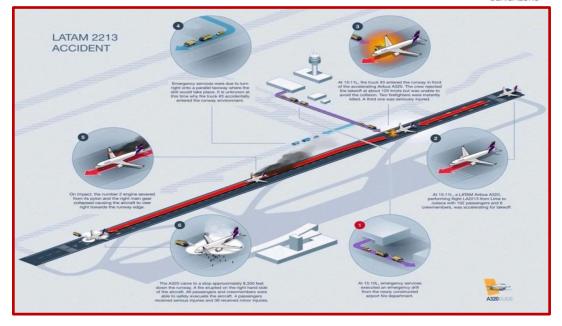




Event

Kempegowda
INTERNATIONAL
AIRPORT
BENGALURU

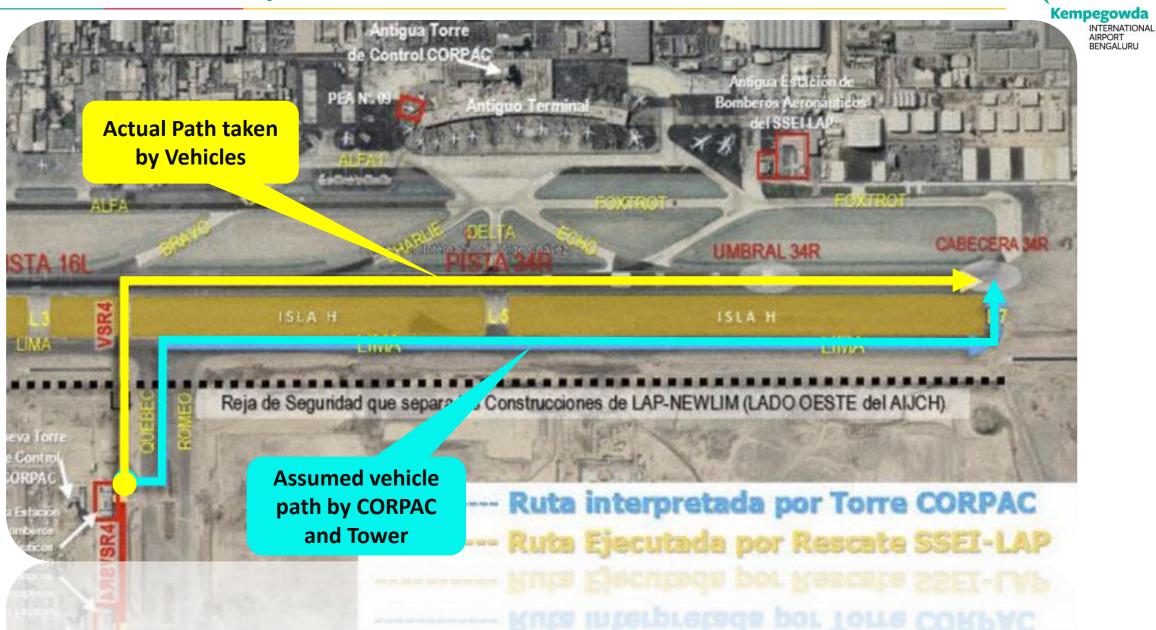
- 18 Nov 2022- 15:11 (LT)- LATAM A320 LA2213, Lima to Juliaca, Peru SOB 108 rolling for takeoff from RWY 16.
- Multiple fire trucks with flashing lights and sirens entered the runway in front of the accelerating aircraft.
- Pilot rejected takeoff at high speed (at about 125 knots over ground) but couldn't avoid contact with Fire Truck No: 3.
- The truck operator tried to turn right to avoid collision, but could not.
- Right main gear collapsed causing the aircraft to veer right and stopped partially off the runway about 2500 meters down the runway and caught fire.



Outcome

- Fire on starboard engine
- All pax & crew evacuated.
- Serious injuries to 4 Pax & Minor injuries to 36.
- Fatal injuries to two Fire Crew & serious injury to one Fire crew

Communication Lapse



Contributing Factors



Failure to Hold Briefing Meeting

Non-Compliance with ICAO Phraseology

Improper handover

Misinterpretation by Airport Rescue Services

Failure to Hold Joint Planning Meeting

Lack of Controller Awareness

Insufficient Time for Hazard Assessment

Coordination Challenges during Emergency

Lack of Instructions to Control Tower and Emergency Services

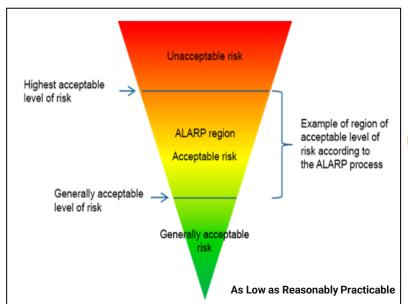
Safety First



Aviation safety

The state of an aviation system or organization in which risks associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.







Are Changes to be Managed?









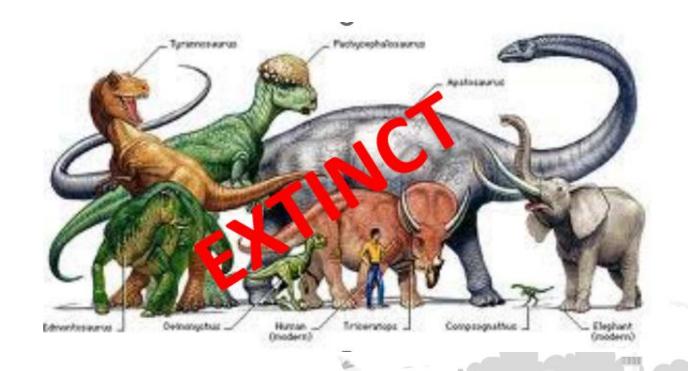
A-Transcore IIIIIIII III

Change Management



Change management in aviation involves structured approaches that transit organizations from current to desired states.

- Aviation is Dynamic Organizations must embrace changes and effectively manage them.
 - Adopting new technologies
 - New Equipment (CFTs)
 - Artificial Intelligence
 - Restructuring operations
 - Addition of Infrastructure
 - Change of Mode
 - Enhancing customer experience
 - Low Visibility Operations
 - Exercises & Operations
 - Responding to economic shifts
 - Pandemic
 - Cost management



Change Management – Key Strategies



Safety First - Rigorous safety assessments and meet regulatory standards

Effective Communication - Engage stakeholders, employees, regulators, and customers, - fosters understanding & support and mitigate resistance to change.

Leadership Alignment – Change oriented, provide guidance and actively engage - fosters change culture and encourages employee buy-in.

Comprehensive Planning - Consider risks, resources, timelines, roles, responsibilities, milestones.

Training and Development - New skills, adaptation, enhance performance and change success rate.

Continuous Improvement – Iterative, feedback, surveys, and metrics to identify areas for improvement.



Change Management



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Assessing of Exercises



Exercises

- Full Scale
- Partial
- Modular
- Response Checks
- Hot Fire Drill
- Performance Checks....



Risks

- Runway Incursion
- Collision Aircraft
- Collision vehicles
- Collision Personal
- Injury Fire Staff
- Damage CFTs/Emy Vehicles
- Reduced Category
- Image.....



Mitigations

- Positive two-way communication
- SMR Coverage
- ARIWS
- Standard Operating Procedures
- Checklists
- Situation Awareness
- Protective Equipment
- Effective Supervision
- Training & Awareness
- Stakeholder coordination
- Change Management

Lesson's Learnt



Scenario

Date: 02.02.2024

• Time : 1900h

Exercise : On-Site Crisis Management

Location : Grid Reference G18 (Twy G on Rwy 09R/27L)

Mode of Operations : Segregated (Rwy 27L Take Off)

Preparatory Phase

- Identification of critical resources & stakeholders
- Coordination meetings & site visit.
- Familiarization to involved parties.
- Tabletop exercise.

Risk Assessment

- Movement of Emergency services Highspeed response
- Movement of Men, material, vehicles of mutual aid.
- Aircraft entering exercise area
- Straying/staying back of personnel.
- FOD Menace
- Breakdown of vehicle in movement area
- Inadequate lightings
- Actual Aircraft Emergency

Lesson's Learnt Kempegowda Legend Exercise Location **Emergency Vehicle Route** - Aircraft Route - Support Vehicle Route - Barricades

ZR-TOZ RVR

NSPR EAM YARD SOUTH FOR

APPROACH LIGHTS ZR.FHY ZA.FHY ZA.FHY

Lesson's Learnt



What did we do?

- Reviewed our procedures.
- Risk Assessments before every exercises Movement area entry.
- Effective Communication
 - Placing of ARFF staff at ATC Tower
 - Positive two-way communication
 - Vehicle equipped with Transponder
- Do not disregard RED lights
- Road holding position marking, lights & sign All entry points.
- Trafficator lights either side of Fire Stations
- Dedicated Road network to enter manoeuvring area.
- Prohibition to stop on emergency roads by other vehicles.
- Right of Way



Success Factor @ KIAB







Revolutionize the way you do business





Safety

Management Support
Safety Culture Development



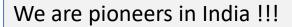
Management

Trust Building
Process Driven



System

Solution Oriented
Be an Enabler



- SMS Application integrated with workflow & eLearning
- Disabled Aircraft Equipment Kit with trained manpower
- Fire fighting simulator.



