

Overview of Airport Operator's Experience from a Regional Perspective

ICAO APAC Regional Webinar on GRF

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Presentation Outline

- Implementation Challenges
- Safety Hazards
- Mitigation Measures and Practical Solutions
- Conclusion



ACI APAC Represents 600 Airports

Worldwide: approx. 2000 airports in 185 countries

Asia-Pacific: > 130 members, 600 airports





Regional Operational Safety Committee





Responsibilities of the Aerodrome Operator

 Assess and collect data on each runway third and use RCAM.

Annex 14

- 2.9.4 personnel assessing and reporting runway surface conditions shall be trained and competent to perform their duties
- 10.3.1 Contaminants shall be removed from the surface of the runway in use as rapidly and completely as possible to minimize accumulation
- Attachment A-6.7: personnel should be trained



Key Challenges So Far

- Awareness & Acceptance among stakeholders.
- Accurate measurement of water and snow depths.
- Determine 1/3 coverage of runway during
 - poor visibility.
 - isolated rain & wet patches.
- Busy runway
- Conversion of RWCC to RCR and live transmission to ATC
- Inclusion of RCR to D-ATIS* and limited space in DATIS text

^{*}Data link-automatic terminal information service



Even with Sensors Human Intervention Still Needed





Solutions

- Task force for stakeholder engagement
- Training (ICAO, ACI)
- Frangible poles with yellow reflective tape placed on both sides of Rwy to indicate 1/3rd of runway
- Beginning 2 foot of nearest runway centre line strip to 1/3rd will be painted with retroreflective paint.
- Format and procedure for reporting RCR finalized in coordination with ATC.
- Change management
- Regulator involvement and approval
- Trials before implementation date



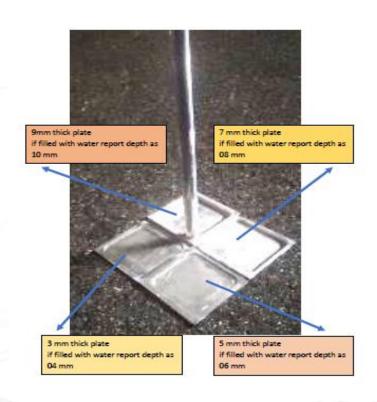
Frangible Pole Indicating 1/3 of RWY Length





Practical Tools to Measure Water Depth

Image of depth measuring tool







Safety Hazards Arising from GRF and Mitigations

Hazards	Risks	Mitigation
Implementation of new procedures leading to human errors	 Confusion to Runway Inspectors / ATC Controllers / Pilots Delay in Operation 	Training & AwarenessContinuous Monitoring
Difficulty in identifying 1/3 rd of runway or accurate water depth	Inaccurate reportsAdditional workload	 Physical Indications of 1/3rd Indigenous equipment for water depth measurement. Training.
Additional tools carried by Follow me vehicles for data collection	FODAdditional workload	 Tool control procedures. Inspection by two vehicles to have cross check. Inventory check after each inspection. Training.
Markers at the runway strip	Distraction to pilotsObstacles during veer off	PVC pipes without strong base to ensure frangibility.Low Height
Delay in reporting RCR to ATC and further to flights	Non-availability of accurate RCR	 Procedures for easy conversion of RWCC to RCR & reporting to ATC. Training & Trials.



Conclusion

- GRF has so far been successfully implemented in region
- Stakeholder engagement and buy-in important
- Challenges remain and sharing of ideas key to overcoming these
 - International seminars such as this useful