

Airport's perspective on GRF

ICAO/ACI-LAC Regional Seminar

Lima, Perú

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world's
airports

Content

- 1. Why is the GRF important for airports?**
- 2. The airport operator's role:**
 - Assessing runway condition (RCAM)
 - Generating RCRs
 - Disseminating RCRs
- 3. Implementation challenges**
- 4. ACI's Role**

Why is the GRF important for airports?

- **Common risk factors in Runway Excursion events (relating to runway contamination):**
 - Ineffective braking due to runway contamination
 - Late or inaccurate runway condition reports
- **Purpose of the GRF:**
 - Address shortfalls in the accuracy and timeliness of assessment and reporting methods of runway conditions

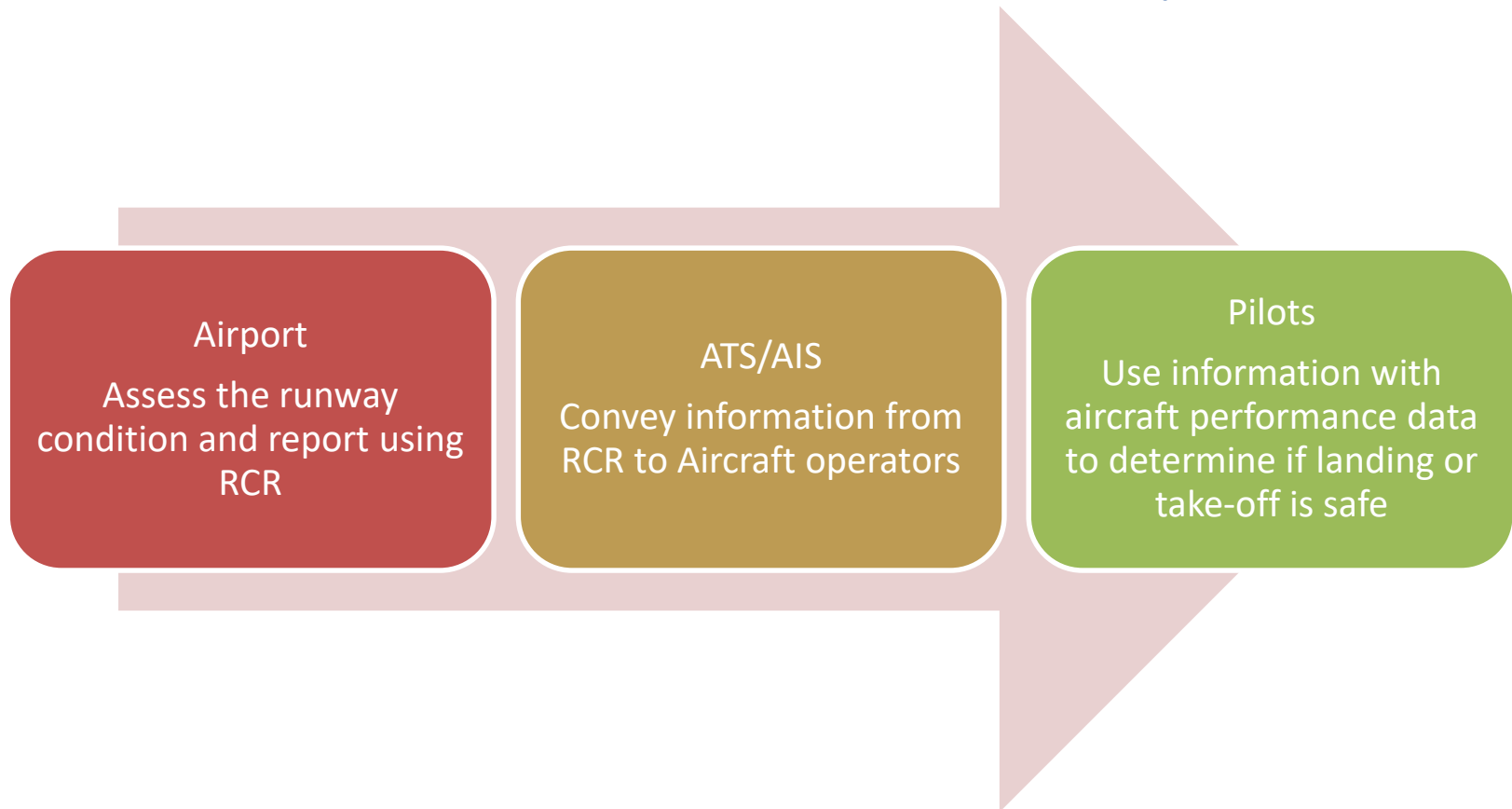
Why is the GRF important for airports?

Expected benefits of the GRF

- Reporting of Runway surface condition in a standardized manner
- Establish a common language between all actors in the system: aerodrome operators, aircraft operators, pilots, ANSPs (ATCOs), AIM, MET, aircraft manufacturers, etc.
- Allow pilots to accurately determine aeroplane take-off and landing performance

The airport operator's role

A critical role....to assess and report in a timely fashion

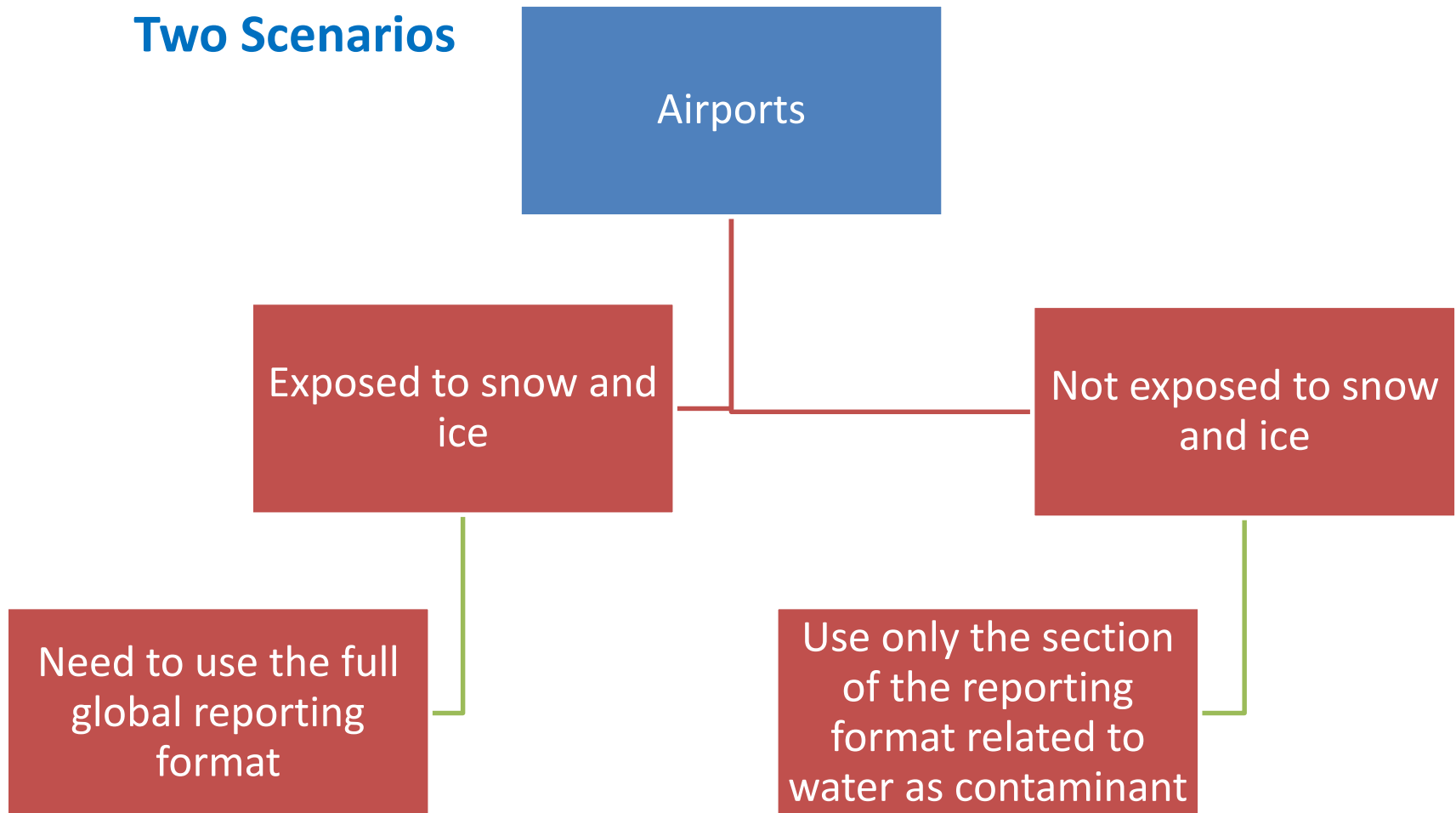


The airport operator's role

- **Airports should :**
 - Accurately assess runway surface conditions using codes from the Runway Condition Assessment Matrix (**RCAM**)
 - Report information in a timely manner to ATS/ATC through the Runway Condition Report (**RCR**)

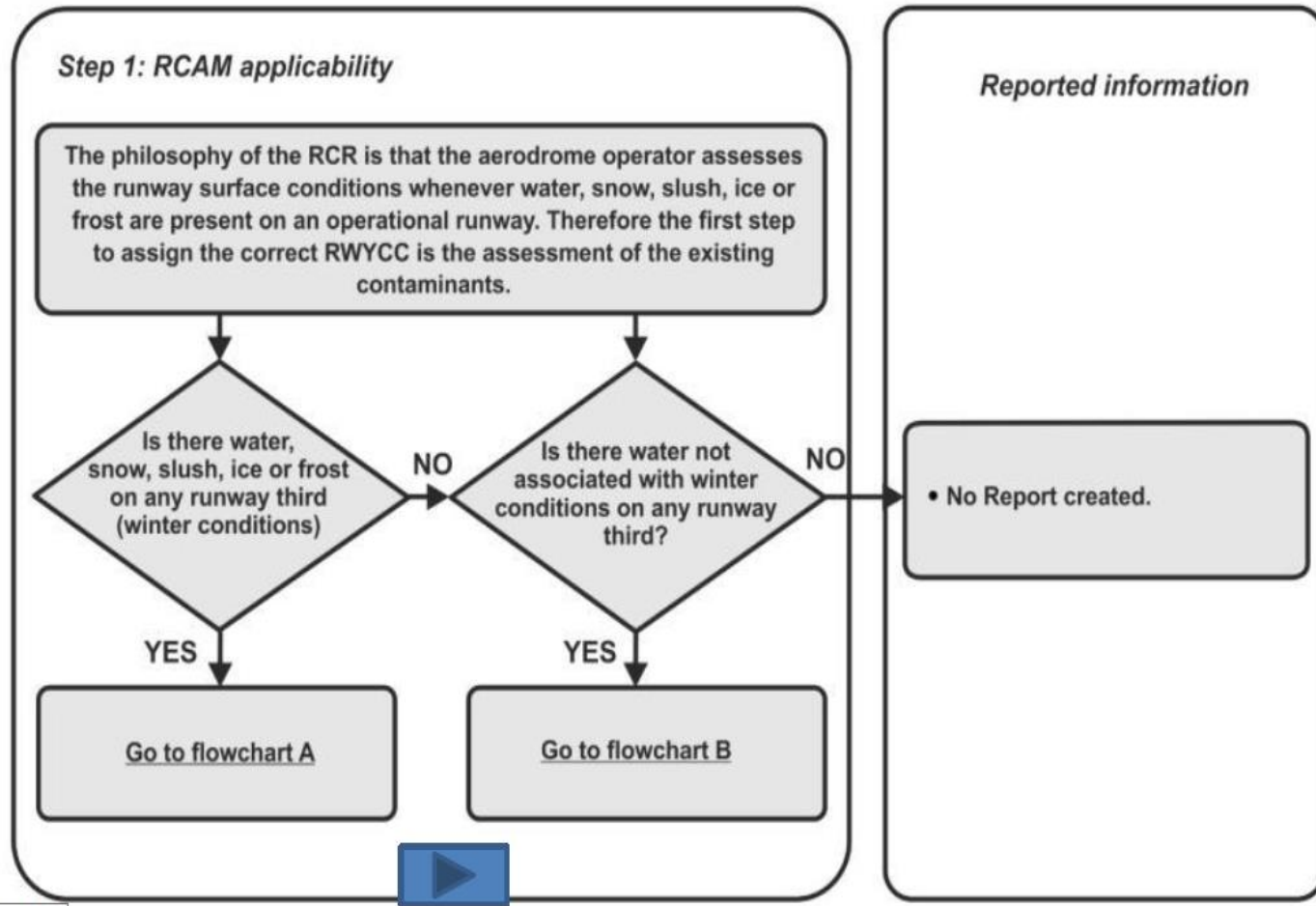
The airport operator's role

Two Scenarios



The airport operator's role

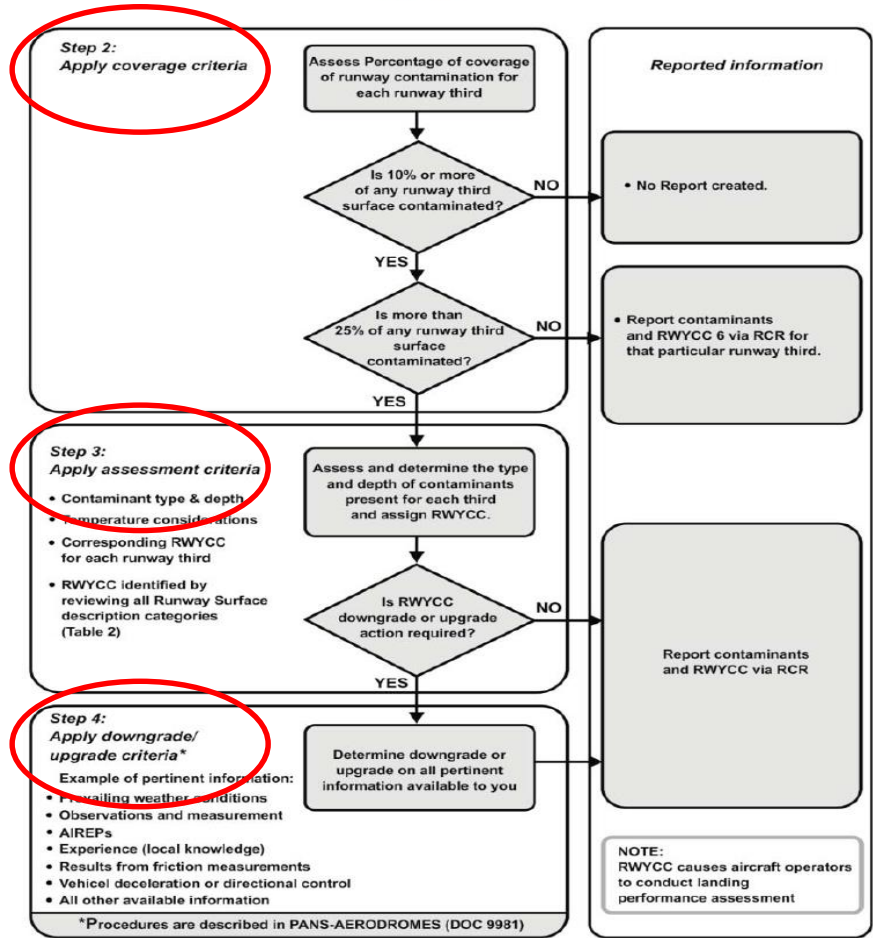
When to report



Exposed to snow and ice

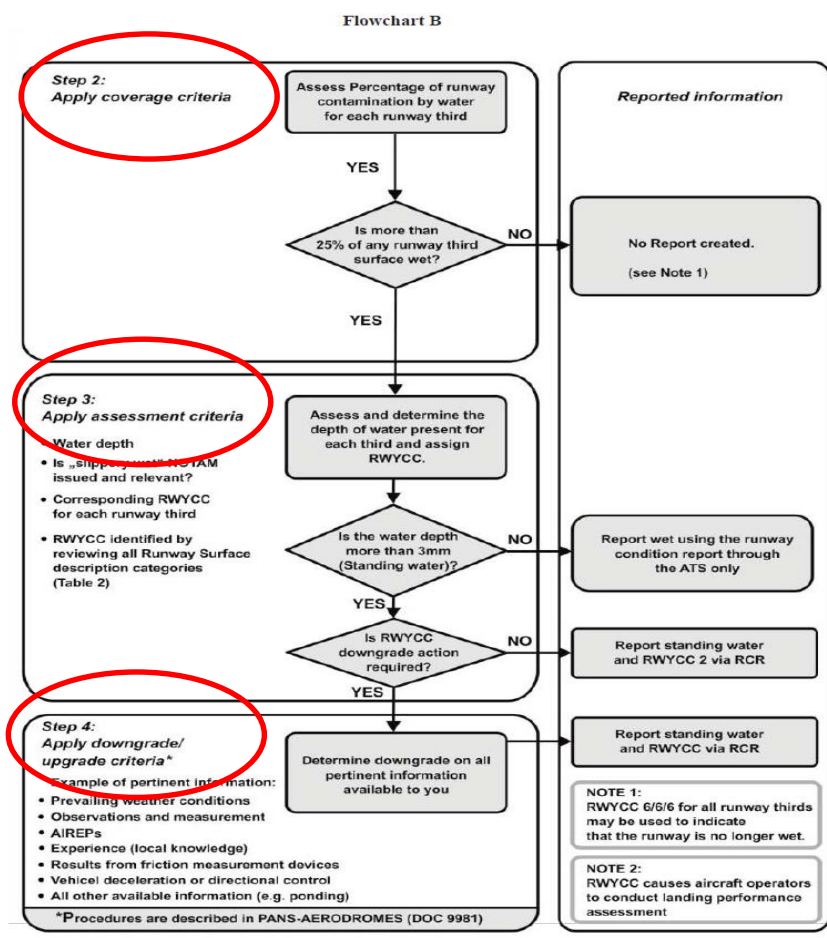
The airport operator's role When to report

Flowchart A



The airport operator's role When to report

Not exposed to snow and ice



Implementation challenges

- **The RCR should contain all the necessary information** for the determination of the relevant runway condition for the performance assessment of the flight crew
- **Aerodrome personnel should understand the operational use of RWYCC** by the flight to assess and report it correctly
- **Training is essential :**
 - How to assess?
 - How to report ?

ACI's role

Our role is to ***Help airport operators to implement the new system.***

Major ACI initiatives:

- Online ICAO/ACI course – already available-3 hours duration
- ICAO/ACI joint GRF symposium – held in March 2019
- Organization of joint ICAO/ACI Regional Seminars

ACI's role

Online Course content

Section 1 - Welcome

Section 2 - Overview

Section 3 - Background to the ICAO Global Reporting Format (GRF)

Section 4 - Runway Condition Assessment Matrix (RCAM)

Section 5 - Adjusted Runway Condition Codes

Section 6 - When to Conduct a Runway Condition Assessment

Section 7 - Conducting a Runway Condition Assessment

Section 8 - Runway Condition Worksheet

Section 9 - Example Scenarios

Assessment



Runway Condition Assessment Worksheet

Is more than 25% of any runway third surface wet or contaminated?

Aerodrome
 Date/Time (UTC) of assessment (MMDDhhmm)
 Lower Runway Designator
 Initials

Yes - assign Runway Condition Codes for each third and complete RWY Condition Report (Blue Box)

No - No report created

Note: RWYCC 6/6/6 for all runway thirds may be used to indicate that the runway is no longer wet

1st RWY Third <small>For coverage 25% or less enter Code 6</small>		2nd RWY Third <small>For coverage 25% or less enter Code 6</small>		3rd RWY Third <small>For coverage 25% or less enter Code 6</small>	
<ul style="list-style-type: none"> - Identify % coverage if more than 25% of the RWY third - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right 		<ul style="list-style-type: none"> - Identify % coverage if more than 25% of the RWY third - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right 		<ul style="list-style-type: none"> - Identify % coverage if more than 25% of the RWY third - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right 	
Dry 6		Dry 6		Dry 6	
Wet (Damp) 5 % Cov. 25/50/75/100	Slippery Wet (Below Min Friction Level Classification) 3 % Cov. 25/50/75/100	Wet (Damp) 5 % Cov. 25/50/75/100	Slippery Wet (Below Min Friction Level Classification) 3 % Cov. 25/50/75/100	Wet (Damp) 5 % Cov. 25/50/75/100	Slippery Wet (Below Min Friction Level Classification) 3 % Cov. 25/50/75/100
Standing water 2 >3mm % Cov. 25/50/75/100		Standing water 2 >3mm % Cov. 25/50/75/100		Standing water 2 >3mm % Cov. 25/50/75/100	
Depth: <input type="text"/> 4mm <input type="text"/> Assessed depth (mm): <small>For Standing water 4mm depth have to be reported as Minimum</small>		Depth: <input type="text"/> 4mm <input type="text"/> Assessed depth (mm): <small>For Standing water 4mm depth have to be reported as Minimum</small>		Depth: <input type="text"/> 4mm <input type="text"/> Assessed depth (mm): <small>For Standing water 4mm depth have to be reported as Minimum</small>	

Situational Awareness Section / Notes

TWY _____ Poor
 Apron _____ Poor
 Other _____

Adjusted RWYCC

CFME Braking coefficient

ONLY if Downgrade Assessments used

Downgrade Criteria
 AIREP CFME Other

RCR

Aerodrome _____ Date & Time _____ RWY _____ RWYCC _____ % Coverage _____ Depth in mm _____

Contaminant Type 1st third _____ Contaminant Type 2nd third _____ Contaminant Type 3rd third _____

Plain language remarks _____

Reduced RWY width in m (if applicable) _____



Runway Condition Assessment Worksheet

Aerodrome

Date/Time (UTC) of assessment
(MMDDh:mm)

Lower Runway Designator

Initials

Is more than 25% of any runway third surface wet or contaminated?

Yes - assign Runway Condition Codes for each third and complete RWY Condition Report (Blue Box)

No - No report created

Note: RWYCC 6/6/6 for all runway thirds may be used to indicate that the runway is no longer wet

1st RWY Third For coverage 25% or less enter Code 6		2nd RWY Third For coverage 25% or less enter Code 6		3rd RWY Third For coverage 25% or less enter Code 6	
<input type="checkbox"/> RWYCC - Identify % coverage if more than 25% of the RWY third - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right		<input type="checkbox"/> RWYCC - Identify % coverage if more than 25% of the RWY third - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right		<input type="checkbox"/> RWYCC - Identify % coverage if more than 25% of the RWY third - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right	
Dry <input type="text" value="6"/>		Dry <input type="text" value="6"/>		Dry <input type="text" value="6"/>	
Wet (Damp) <input type="text" value="5"/> % Cov. 25/50/75/100	Slippery Wet (Below Min Friction Level Classification) <input type="text" value="3"/> % Cov. 25/50/75/100	Wet (Damp) <input type="text" value="5"/> % Cov. 25/50/75/100	Slippery Wet (Below Min Friction Level Classification) <input type="text" value="3"/> % Cov. 25/50/75/100	Wet (Damp) <input type="text" value="5"/> % Cov. 25/50/75/100	Slippery Wet (Below Min Friction Level Classification) <input type="text" value="3"/> % Cov. 25/50/75/100
Standing water <input type="text" value="2"/> >3mm % Cov. 25/50/75/100		Standing water <input type="text" value="2"/> >3mm % Cov. 25/50/75/100		Standing water <input type="text" value="2"/> >3mm % Cov. 25/50/75/100	
Depth: <input type="text" value="4mm"/> Assessed depth (mm): <input type="text"/>		Depth: <input type="text" value="4mm"/> Assessed depth (mm): <input type="text"/>		Depth: <input type="text" value="4mm"/> Assessed depth (mm): <input type="text"/>	
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Situational Awareness Section / Notes

TWY _____ Poor

Apron _____ Poor

Other _____

CFME Braking coefficient

Must not be transmitted
in RWY Condition Report

Adjusted RWYCC

ONLY if Downgrade
Assessments used

Downgrade Criteria

AIREP CFME Other

RCR

Aerodrome _____ Date & Time _____ RWY _____ / _____ / _____ % Coverage _____ / _____ / _____ Depth in mm _____

Contaminant Type 1st third _____

Contaminant Type 2nd third _____

Contaminant Type 3rd third _____

Rain language remarks _____

Reduced RWY width in m (if applicable) _____

Summary

- 1. GRF a tool to help avoid runway excursions**
- 2. Airports have an active role to play**
- 3. Training the biggest challenge**
- 4. ACI actively promoting GRF via training and seminars**



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