

PRISCA NKOLO
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**ACI/ICAO
GLOBAL
REPORTING
FORMAT
COURSE**



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Session 6 – Using RCAM to report

End- Objectives

At the end of the session, the participants should be able to :

- Use the Runway Condition Report (RCR) to report
- Determine when and how to report

Outline

- Runway Condition Report (RCR)**
- When and how to report?**

Runway Condition Report (RCR)

❑ What is RCR?

- ❖ Standardized report relating to runway surface conditions and its effect on the aeroplane landing and take-off performance

- ❖ RCR includes 2 sections:
 - ✓ Aerodrome performance calculation section
 - ✓ Situational awareness section

Aerodrome performance Calculation section



Aerodrome location indicator

This information is mandatory.

ICAO location indicator

Format: nnnn

Example : DGAA



Source of information

- ICAO Doc 9170- Location indicators
- UTC time



Date and time of assessment

This information is mandatory.

UTC date & time when the assessment was performed

Format: MMDDhhmm

Example : 09111357



Lower runway designation number

This information is mandatory.

Number identifying the runway for which the assessment is carried out and reported

Format: nn or nn[L] or nn[C] or nn[R]

Example : 09 ; 09L



Source of information

- Actual runway
- Assessment based upon RCAM and associated procedures



RWYCC for each runway third

This information is mandatory.

Runway condition code assessed for each runway third

Format: n/n/n

Example : 5/5/2



Aerodrome performance calculation section contains information relevant for aeroplane performance. That information is needed for:

- Flight planning
- Cockpit preparation for departure
- Cruise and approach preparation



Aerodrome performance Calculation section



Percent coverage contaminant

This information is Conditional.

Not reported for one runway third if it is dry or covered with less than 10%

Format: nnn/nnn/nnn

Example : 25/50/100 ; NR/NR/100

NR= No records



Source of information

- Visual observation for each runway third
- Visual observation for each runway third confirmed by measurements when appropriate(depth)



Depth of contaminant(in mm)

This information is Conditional.

Reported only for STANDING WATER, **Dry snow, Wet snow, and slush -**

Format: nnn/nnn/nnn

Example : 04/06/12 Standing water



Condition description for each third

This information is mandatory.

To be reported in capital letters using standardized terminology

Format: STANDING WATER ; WET

Example : STANDING WATER/WET/STANDING WATER



Source of information

- Visual observation for each runway third
- Visual observation while at the runway and/or information from local procedures



Width of operating RWY (in m)

This information is Optional.

To be reported only if the operational width of the runway is less than what is published

Format: nn

Example : 30



Aerodrome performance calculation section contains information relevant for aeroplane performance. That information is needed for:

- Flight planning
- Cockpit preparation for departure
- Cruise and approach preparation

Situational awareness section



Reduced runway length(in m)

This information is Conditional.

Reported when a NOTAM has been published with a new set of declared distances

Format: Standardized fixed text

RWY nn[] LDA REDUCED TO nnnn

Example : RWY 02R REDUCED TO 1450.



Source of information

- NOTAM
- Visual conditions, AIREP, reports by other aerodrome personnel, etc.



Taxiway conditions

This information is Optional.

Format: TWY [nnn] POOR

Example : TWY B POOR.



Apron conditions

This information is Optional.

Format: APRON [nnn] POOR

Example : APRON NORTH POOR.



Source of information

- Visual conditions, AIREP, reports by other aerodrome personnel, etc.
- Any additional operational significant information to be reported



Plain language remarks

This information is Optional.

Using only allowable capital letters

Allowable characters:

A B C D E F G H I J K L M N O P Q R S T U V X Y Z

0 1 2 3 4 5 6 7 8 9

/ ; " ' (Space); " . "(period)



All individual messages to end with a full stop sign.

Situational awareness section contains information relevant for situational awareness. That information is needed for:

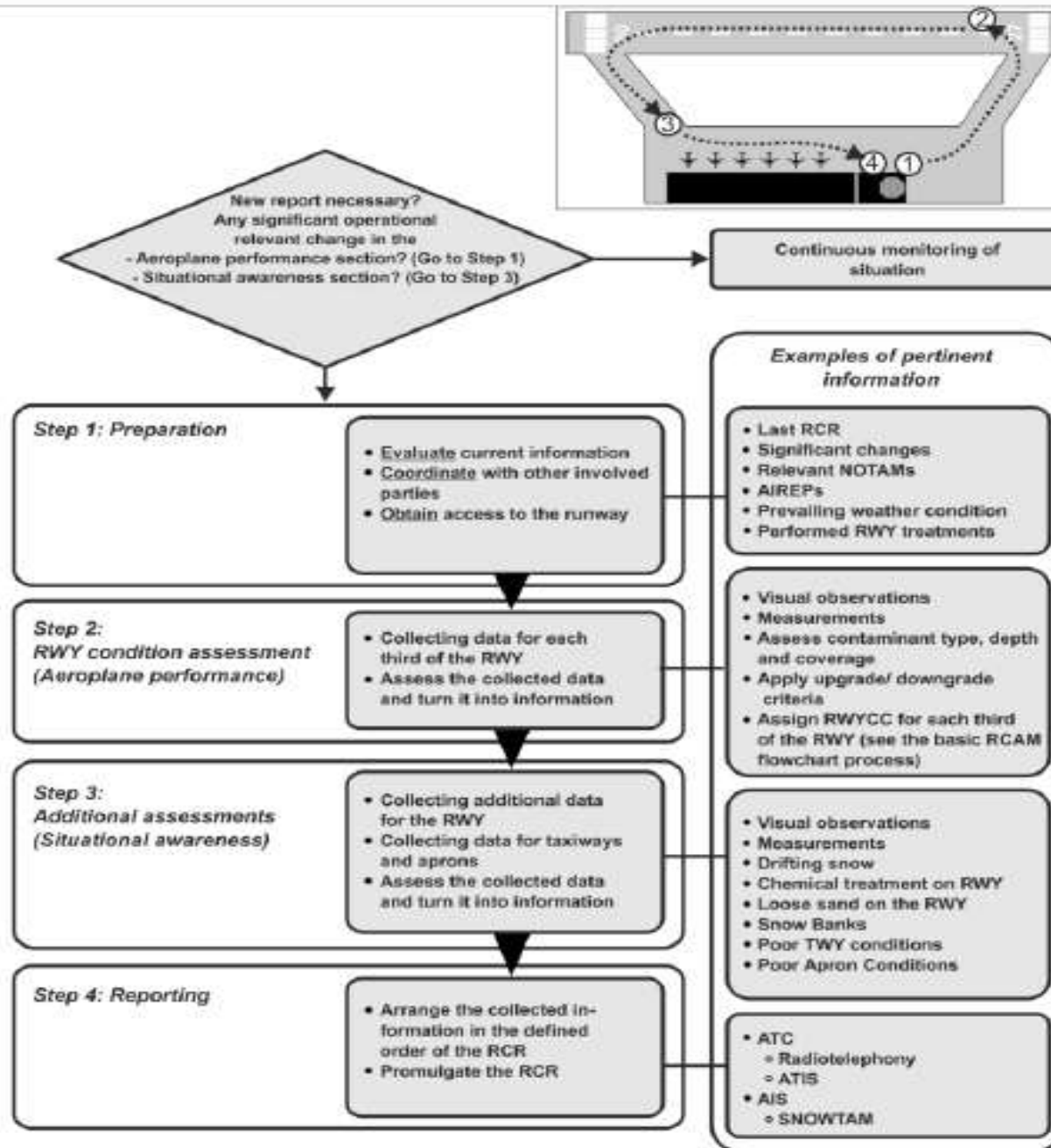
- Flight planning
- Cockpit preparation for departure
- Cruise and approach preparation
- Descend
- Approach
- Taxi-in

PROGRESS TESTS

When and How to report?

- ❑ **An14, Vol I , 2.9.1 requires :**
 - ❖ Information on the condition of the movement area and the operational status of related facilities shall be provided to appropriate AIS and similar information of operational significance to the ATS units to enable those units to provide the necessary information to arriving and departing aircrafts.
 - ❖ Information shall be kept up-to-date and changes in condition reported without delays.

Generic assessment process to generate RCR



Using RCAM to report: Step 1

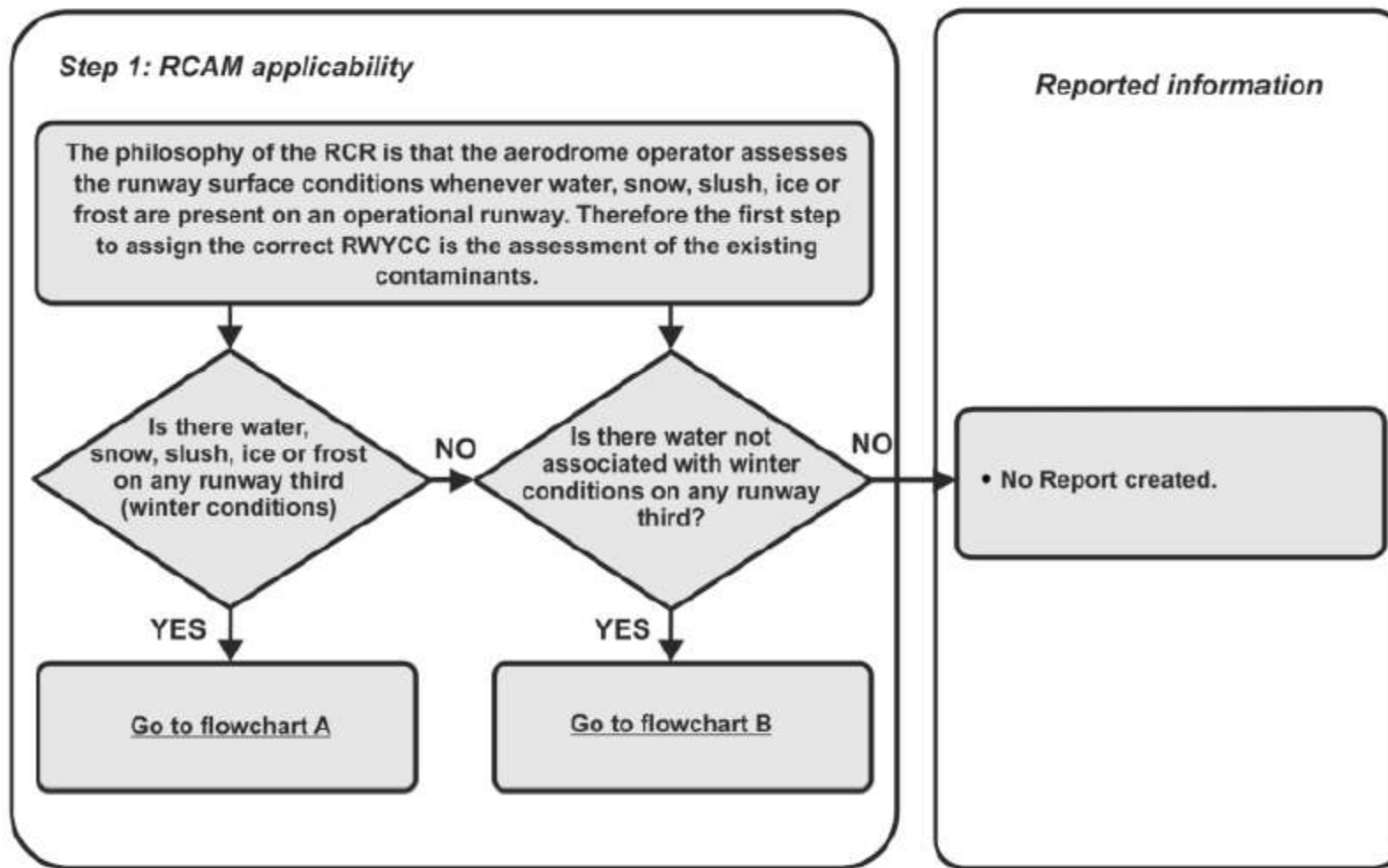
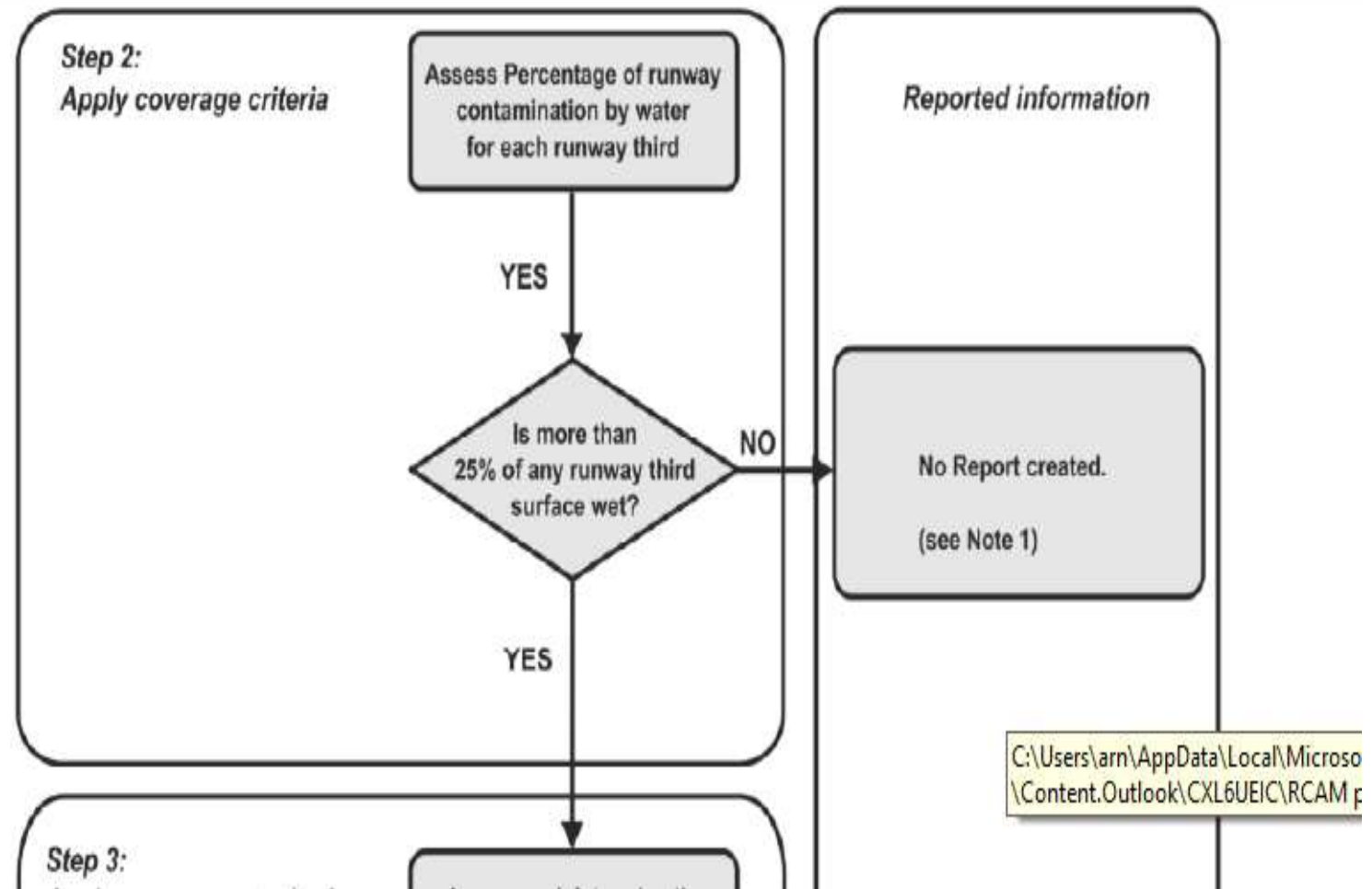
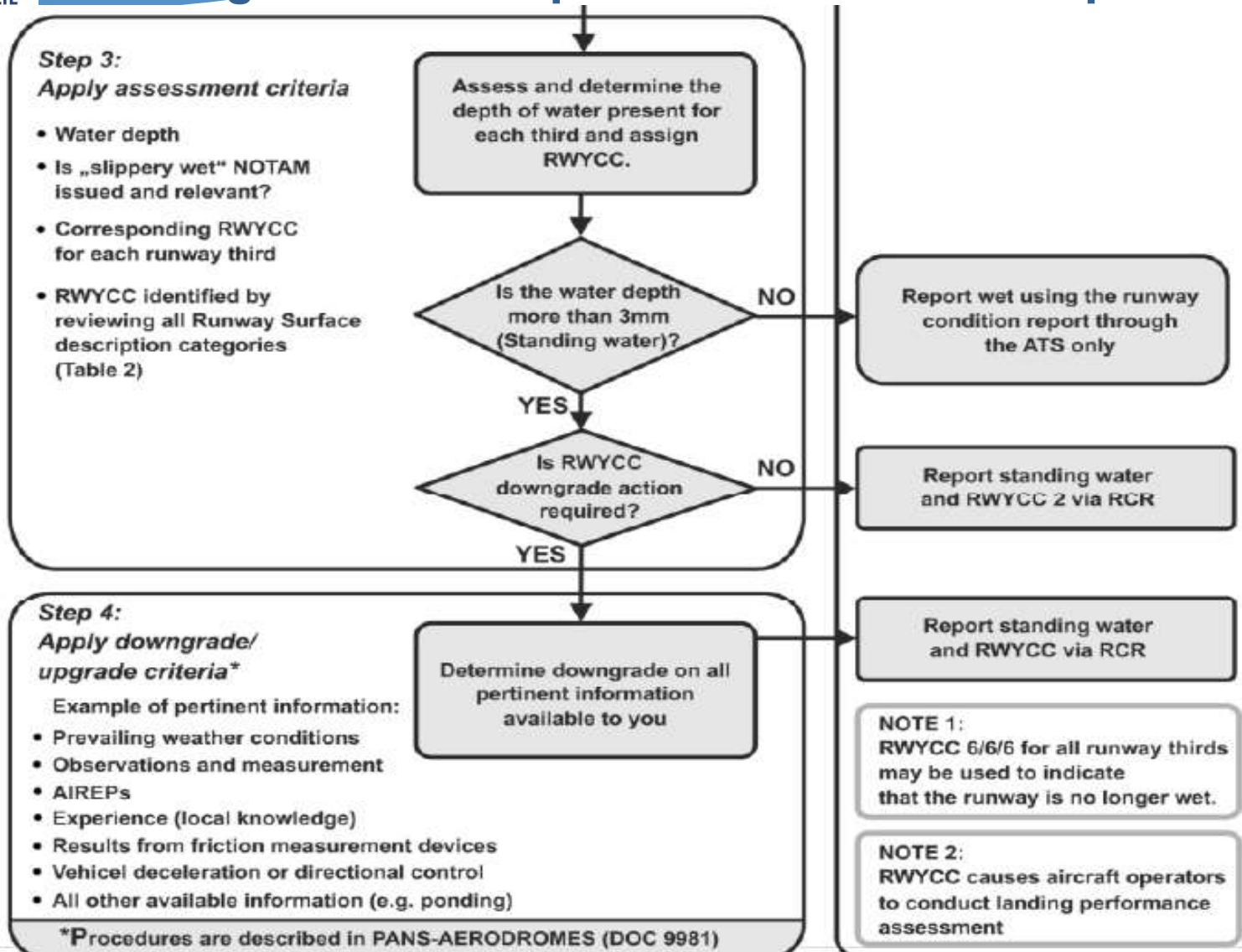


Figure 4-3. The basic RCAM flowchart process

Using RCAM to report: Flowchart B- Step 2



Using RCAM to report: Flowchart B- Step 3 & 4



Significant change



Significant changes in depth of contaminants

04mm is the minimum depth value at and above which the depth is reported for **STANDING WATER**
 For 03mm and below the runway third is considered **WET**
 Above 4 mm depth, **Any significant change from the initial assessed value should be reported**



New RCR

A change in RWYCC requires a complete assessment taking into account all information available
Significant changes may trigger the generation of new information in RCR

<i>Contaminant</i>	<i>Valid values to be reported</i>	<i>Significant change</i>
STANDING WATER	04, then assessed value	3 mm up to and including 15 mm
SLUSH	03, then assessed value	3 mm up to and including 15 mm
WET SNOW	03, then assessed value	5 mm
DRY SNOW	03, then assessed value	20 mm



Any significant change should be reported. This information is needed for:

- Taxi-out
- Line up and take-off or missed approach
- Descend
- Taxi-in



PROGRESS TESTS

Makassar Airport (WAAA), Sulawesi Selatan, Indonesia

- **RWY 03/21**
- **January 21th, 2019 at 17:10 UTC**
- **A thunderstorm has passed and a significant amount of rain is pouring down on the airport and surrounding region**
- **When driving down the runway which is completely covered by water, we estimate that the depth of the water layer is approximately 1 cm**
- **The OAT is 28° Celsius, dew point 28° Celsius**



Runway Condition Assessment Worksheet

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

WAAA Aerodrome
01211710 Date/Time (UTC) of assessment (MMDDhhmm)
03 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>	
- 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.		- 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.		- 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" value="4mm"/> Assessed depth (mm): <input type="text" value="10"/> <small>For Standing water 4mm depth have to be reported as Minimum</small>		Depth: <input type="text" value="4mm"/> Assessed depth (mm): <input type="text" value="10"/> <small>For Standing water 4mm depth have to be reported as Minimum</small>		Depth: <input type="text" value="4mm"/> Assessed depth (mm): <input type="text" value="10"/> <small>For Standing water 4mm depth have to be reported as Minimum</small>	

Situational Awareness Section / Notes

RCAM Scenario data

TWY Poor
 Apron Poor
 Other

downgrading?

State approved
 CFME Braking coefficient

 My not to be transmitted in RWY Condition Report

Adjusted RWYCC

 ONLY if Downgrade/ Upgrade Assessments used.
 Downgrade/ Upgrade Criteria
 AIREP CFME Other

RCR WAAA 01211710 03 **2 / 2 / 2** 100 / 100 / 100 10 / 10 / 10
Aerodrome Date & Time RWY RWYCC % Coverage Depth in mm
STANDING WATER / **STANDING WATER** / **STANDING WATER**
Contaminant Type 1st third Contaminant Type 2nd third Contaminant Type 3rd third
 Plain language remarks
 Reduced RWY width in m (if applicable)

Makassar Airport (WAAA), Sulawesi Selatan, Indonesia

•RWY 03/21

•January 21th, 2019 at 17:10 UTC

•A thunderstorm has passed and a significant amount of rain is pouring down on the airport and surrounding region

•When driving down the runway which is completely covered by water, we estimate that the depth of the water layer on the middle third of the runway is approximately 1 mm and the other sections of the runway are completely

4) A final assessment of the precipitation reveals that the depth has increased to 7 mm

IS a new Runway condition report required?
If yes how are you going to report?

1) After the first assessment of runway condition, a **first runway condition report** is generated. The initial report is:

5/5/5 100/100/100 NR/NR/NR WET/WET/SWET

2) With continuing precipitation, a new runway condition report is required to be generated as subsequent assessment reveals a change in the runway condition code. A **second runway condition report** is therefore created as:

2/2/2 100/100/100 04/04/04 STANDING WATER/ STANDING WATER / STANDING WATER

3) With even more precipitation, further assessment reveals the depth of precipitation has increased from 4 mm to 6 mm along the entire length of the runway.

Is a new RCR is required and if yes How would you report?





Any Questions?



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Any Questions?



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