ACI/ICAO GLOBAL REPORTING FORMAT COURSE

ICAO

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ACI-ICAO Joint Initiatives

- Global ACI-ICA Airport Management Professional Accreditation Programme (AMPAP)
- Aerodrome Certification
- Management of Airport Security
- Implementing Annex 14: Advanced Aerodrome Design and Operations
- Global Reporting Format (online)

Course Development Timeline

August 2015

August 2016

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July 2017

January 2018

April 2018

May 2018

December 2018

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Course Content

ACI/ICAO GLOBAL REPORTING FORMAT COURSE

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

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Excerpts from the ACI/ICAO

Runway Condition Assessment Matrix (RCAM)

Table II-1-5. Runway condition assessment matrix (RCAM)

Runway condition assessment matrix (RCAM)			
Assessment criteria		Downgrade assessment criteria	
Runway condition code	Runway surface description	Aeroplane deceleration or directional control observation	Pilot report of runway braking action
6	• DRY	—	—
5	• FROST • WET (The runway surface is covered by any visible dampness or water up to and including 3 mm depth) *Up to and including 3 mm depth:* • SLUSH • DRY SNOW • WET SNOW	Braking deceleration is normal for the wheel braking effort applied AND directional control is normal	GOOD
4	*−15°C and Lower outside air temperature:* • COMPACTED SNOW	Braking deceleration OR directional control is between Good and Medium	GOOD TO MEDIUM
3	• WET ("slippery wet" runway) • DRY SNOW or WET SNOW (any depth) ON TOP OF COMPACTED SNOW *More than 3 mm depth:* • DRY SNOW • WET SNOW *Higher than −15°C outside air temperature[1]:* • COMPACTED SNOW	Braking deceleration is noticeably reduced for the wheel braking effort applied OR directional control is noticeably reduced	MEDIUM
2	*More than 3 mm depth of water or slush:* • STANDING WATER • SLUSH	Braking deceleration OR directional control is between Medium and Poor	MEDIUM TO POOR
1	• ICE[2]	Braking deceleration is significantly reduced for the wheel braking effort applied OR directional control is significantly reduced	POOR
0	• WET ICE[2] • WATER ON TOP OF COMPACTED SNOW[2] • DRY SNOW or WET SNOW ON TOP OF ICE[2]	Braking deceleration is minimal to non-existent for the wheel braking effort applied OR directional control is uncertain	LESS THAN POOR

[1] Runway surface temperature should preferably be used where available.
[2] The aerodrome operator may assign a higher runway condition code (but no higher than code 3) for each third of the runway, provided the procedure in 1.1.3.15 is followed.

Click on each element of the Runway Condition Assessment Matrix (RCAM) to learn more.

You will need to review all sections of the matrix before you can move to the next page.

Excerpts from the ACI/ICAO

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ACI/ICAO Global Reporting Format

Section 6 - When to Conduct a Runway Condition Assessment

home resources glossary exit

When to Issue New Runway Condition Reports

Runway condition reports must be updated any time there is a significant change to the runway surface condition. This includes:

Click on each to learn more.

- A change in the RWYCC
- A change in contaminant type
- A significant change in reportable contaminant coverage
- A significant change in contaminant depth

Excerpts from the ACI/ICAO

Worksheet for winter conditions

Example scenarios on how to use the worksheet is included in the course

Runway Condition Assessment Worksheet

Aerodrome

Date/Time (UTC) of assessment (MMDDhhmm)

Lower Runway Designator

°C Outside Air Temperature

Initials

Assess the % coverage of runway contamination for each runway third

< 10% coverage	≥ 10% - ≤ 25% coverage	> 25% coverage
RWYCC - 6 for that third. No contaminant is reported	RWYCC - 6 for that third. Report contaminant at 25% coverage	Assign RWYCC based on contaminant present & temperature considerations

NOTE: RCR not required if all RWY thirds have <10% coverage (unless making a final report to advise the RWY is no longer contaminated)

1st RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC

Dry [6]; Wet (Damp) [5] % Cov. 25/50/75/100; Frost [5] % Cov. 25/50/75/100; Slippery Wet (Below Min Friction Level Classification) [3] % Cov. 25/50/75/100

Standing Water/ Slush [2] >3mm % Cov. 25/50/75/100; Slush [5] 3mm or less % Cov. 25/50/75/100; Wet snow or Dry snow [3] >3mm % Cov. 25/50/75/100, [5] 3mm or less % Cov. 25/50/75/100; Dry or wet snow on compacted snow [3] % Cov. 25/50/75/100

Depth: 3mm or less; Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below % Cov. 25/50/75/100 [4] Compacted snow; Above -15°C [3] % Cov. 25/50/75/100

Ice % Cov. 25/50/75/100 [1]; Wet Ice, Water on compacted snow, snow on ice [0] % Cov. 25/50/75/100

2nd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC

Dry [6]; Wet (Damp) [5] % Cov. 25/50/75/100; Frost [5] % Cov. 25/50/75/100; Slippery Wet (Below Min Friction Level Classification) [3] % Cov. 25/50/75/100

Standing Water/ Slush [2] >3mm % Cov. 25/50/75/100; Slush [5] 3mm or less % Cov. 25/50/75/100; Wet snow or Dry snow [3] >3mm % Cov. 25/50/75/100, [5] 3mm or less % Cov. 25/50/75/100; Dry or wet snow on compacted snow [3] % Cov. 25/50/75/100

Depth: 3mm or less; Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below % Cov. 25/50/75/100 [4] Compacted snow; Above -15°C [3] % Cov. 25/50/75/100

Ice % Cov. 25/50/75/100 [1]; Wet Ice, Water on compacted snow, snow on ice [0] % Cov. 25/50/75/100

3rd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC

Dry [6]; Wet (Damp) [5] % Cov. 25/50/75/100; Frost [5] % Cov. 25/50/75/100; Slippery Wet (Below Min Friction Level Classification) [3] % Cov. 25/50/75/100

Standing Water/ Slush [2] >3mm % Cov. 25/50/75/100; Slush [5] 3mm or less % Cov. 25/50/75/100; Wet snow or Dry snow [3] >3mm % Cov. 25/50/75/100, [5] 3mm or less % Cov. 25/50/75/100; Dry or wet snow on compacted snow [3] % Cov. 25/50/75/100

Depth: 3mm or less; Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below % Cov. 25/50/75/100 [4] Compacted snow; Above -15°C [3] % Cov. 25/50/75/100

Ice % Cov. 25/50/75/100 [1]; Wet Ice, Water on compacted snow, snow on ice [0] % Cov. 25/50/75/100

Situational Awareness Section

- RWY Reduced length LDA ..... m
- RWY Drifting snow
- RWY Loose sand
- RWY Snowbanks L of CL ..... m / R of CL ..... m
- TWY Snowbanks L of CL ..... m / R of CL ..... m
- Asymm. reduced RWY width R/L ..... m FM CL
- TWY ..... Poor
- Apron ..... Poor
- Other _____

RWY Treatment Used?

Time Applied: _____

Chem. Treatment; Plowed; Swept; Sanded; Scarified

Liquid; Solid

Notes _____

State approved CFME Braking coefficient

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade 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)

Excerpts from the ACI/ICAO

Worksheet for wet conditions

Example scenarios on how to use the worksheet is included in the course

Runway Condition Assessment Worksheet

Aerodrome

Date/Time (UTC) of assessment (MMDDhhmm)

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	2nd RWY Third	3rd RWY Third
For coverage 25% or **less** enter Code 6	For coverage 25% or **less** enter Code 6	For coverage 25% or **less** enter Code 6
- 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
RWYCC	RWYCC	RWYCC
Dry 6	Dry 6	Dry 6
Wet (Damp) 5 % Cov. 25/50/75/100	Wet (Damp) 5 % 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	Slippery Wet (Below Min Friction Level Classification) 3 % 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: 4mm Assessed depth (mm):	Depth: 4mm Assessed depth (mm):	Depth: 4mm Assessed depth (mm):
For Standing water 4mm depth have to be reported as Minimum	For Standing water 4mm depth have to be reported as Minimum	For Standing water 4mm depth have to be reported as Minimum

Situational Awareness Section / Notes

TWY ..... Poor

Apron ..... Poor

Other .....

State approved CFME Braking coefficient

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade 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)

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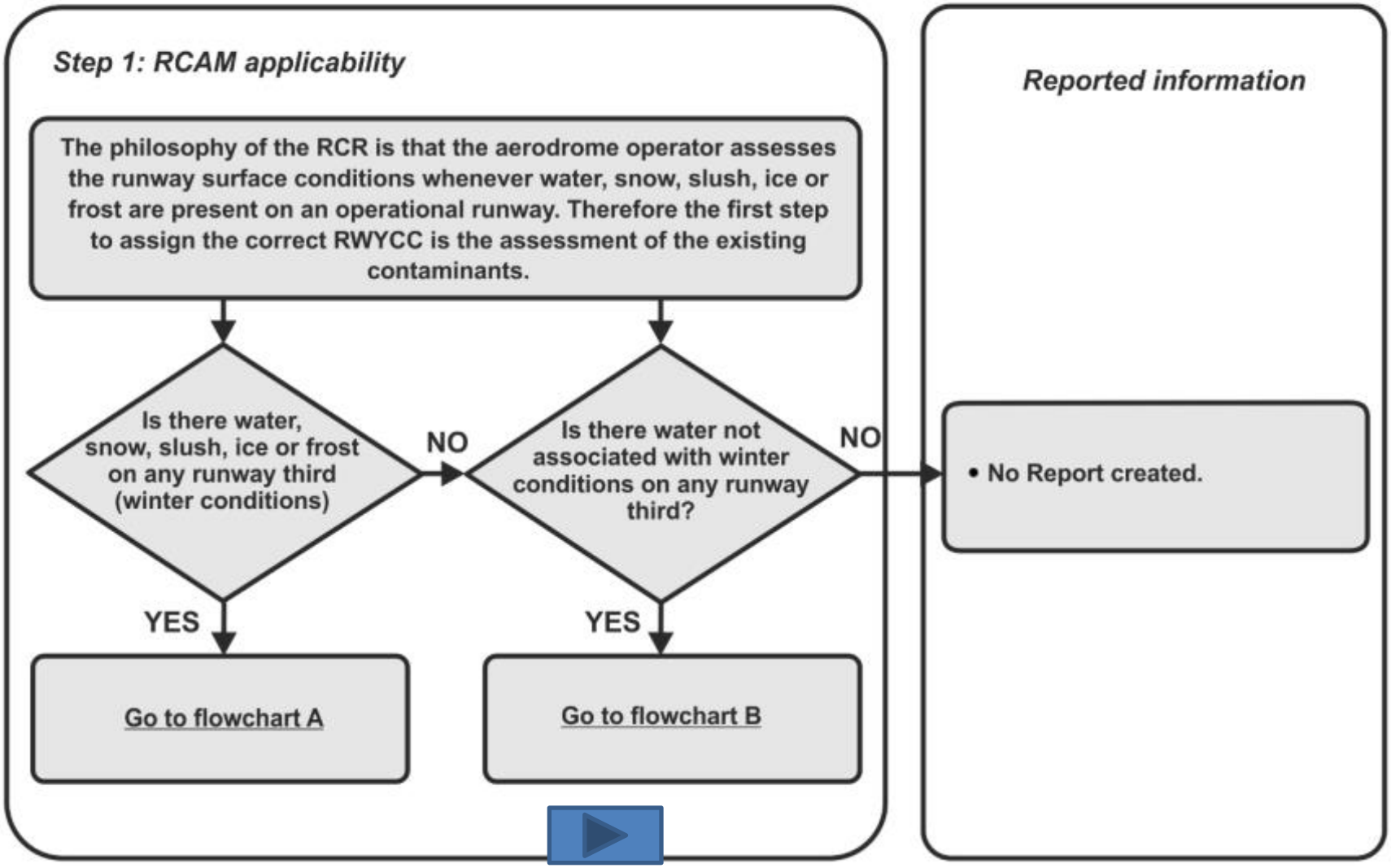
A similar example as Scenario 3 on the GRF course

- 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

to flow chart

to work sheet


Step 1: RCAM applicability
The philosophy of the RCR is that the aerodrome operator assesses the runway surface conditions whenever water, snow, slush, ice or frost are present on an operational runway. Therefore the first step to assign the correct RWYCC is the assessment of the existing contaminants.
Is there water, snow, slush, ice or frost on any runway third (winter conditions)
NO
Is there water not associated with winter conditions on any runway third?
NO
YES
Go to flowchart A
YES
Go to flowchart B
Reported information
• No Report created.

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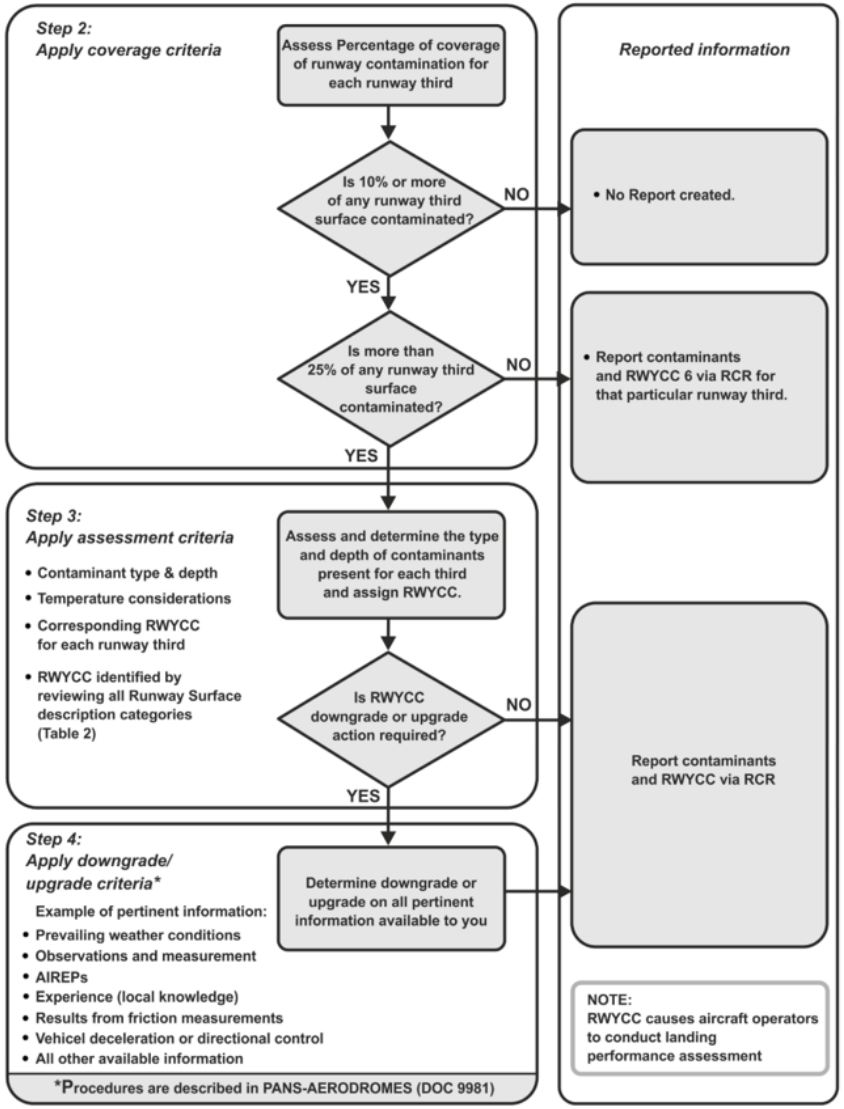


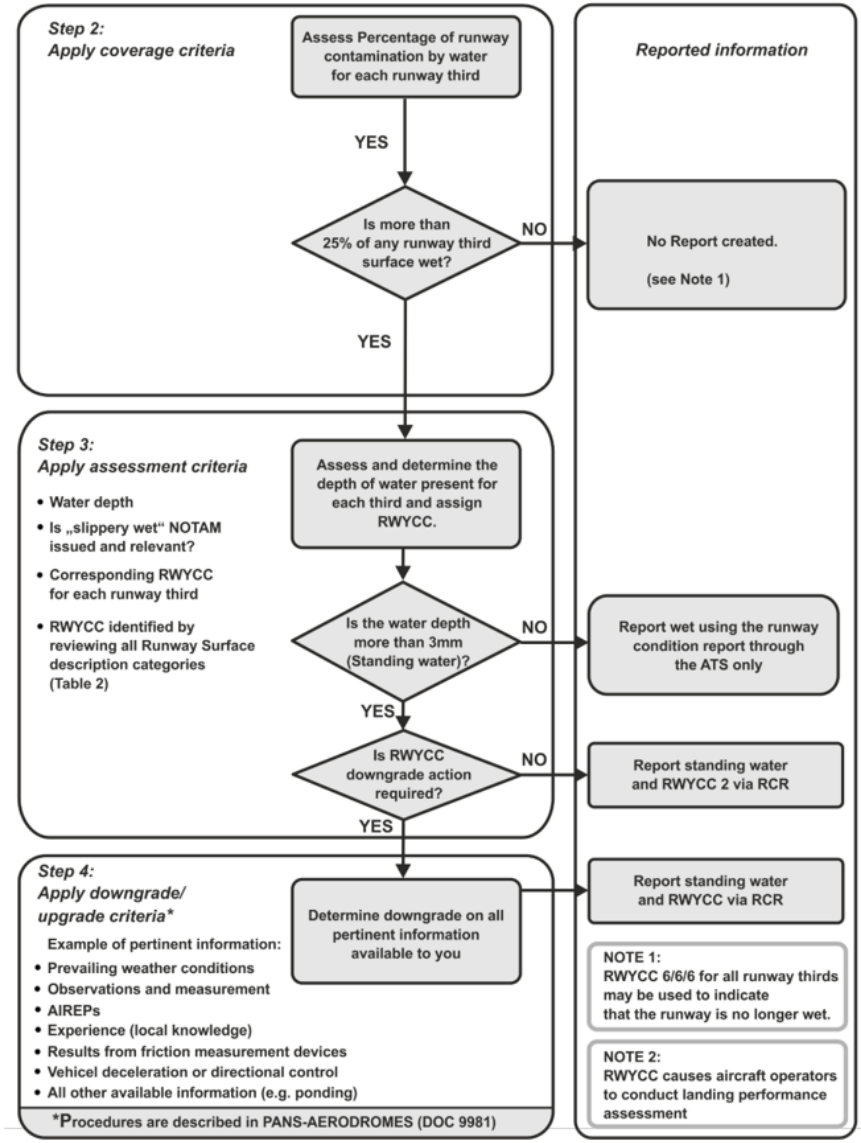
SC 1

SC 2

SC 3

SC 4

SC 5



Runway Condition Assessment Worksheet

WAAA	Aerodrome
01211710	Date/Time (UTC) of assessment (MMDDhhmm)
03	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

- 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

RWYCC: 2

Dry: 6

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

Depth: 4mm — Assessed depth (mm): 10

For Standing water 4mm depth have to be reported as Minimum

2nd RWY Third

For coverage 25% or **less** enter Code 6

- 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

RWYCC: 2

Dry: 6

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

Depth: 4mm — Assessed depth (mm): 10

For Standing water 4mm depth have to be reported as Minimum

3rd RWY Third

For coverage 25% or **less** enter Code 6

- 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

RWYCC: 2

Dry: 6

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

Depth: 4mm — Assessed depth (mm): 10

For Standing water 4mm depth have to be reported as Minimum

Situational Awareness Section / Notes

RCAM ▶ Scenario data ▶

[ ] TWY ..... Poor

[ ] Apron ..... Poor

[ ] Other .....

downgrading ? ▶

State approved CFME Braking coefficient

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade Criteria

[ ] AIREP [ ] CFME [ ] Other

RCR

Aerodrome	Date & Time	RWY	RWYCC	% Coverage	Depth in mm
WAAA	01211710	03	2 / 2 / 2	100 / 100 / 100	10 / 10 / 10

Contaminant Type 1st third	Contaminant Type 2nd third	Contaminant Type 3rd third
STANDING WATER	STANDING WATER	STANDING WATER

Plain language remarks .....

Reduced RWY width in m (if applicable) .....

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Runway condition assessment matrix (RCAM)			
Assessment criteria		Downgrade assessment criteria	
Runway condition code	Runway surface description	Aeroplane deceleration or directional control observation	Pilot report of runway braking action
6	• DRY	---	---
5	• FROST • WET (The runway surface is covered by any visible dampness or water up to and including 3 mm depth) *Up to and including 3 mm depth:* • SLUSH • DRY SNOW • WET SNOW	Braking deceleration is normal for the wheel braking effort applied AND directional control is normal.	GOOD
4	*-15°C and Lower outside air temperature:* • COMPACTED SNOW	Braking deceleration OR directional control is between Good and Medium.	GOOD TO MEDIUM
3	• WET ("slippery wet" runway) • DRY SNOW or WET SNOW (any depth) ON TOP OF COMPACTED SNOW *More than 3 mm depth:* • DRY SNOW • WET SNOW *Higher than -15°C outside air temperature*[1]: • COMPACTED SNOW	Braking deceleration is noticeably reduced for the wheel braking effort applied OR directional control is noticeably reduced.	MEDIUM
2	*More than 3 mm depth of water or slush:* • STANDING WATER • SLUSH	Braking deceleration OR directional control is between Medium and Poor.	MEDIUM TO POOR
1	• ICE [2]	Braking deceleration is significantly reduced for the wheel braking effort applied OR directional control is significantly reduced.	POOR
0	• WET ICE [2] • WATER ON TOP OF COMPACTED SNOW [2] • DRY SNOW or WET SNOW ON TOP OF ICE [2]	Braking deceleration is minimal to non-existent for the wheel braking effort applied OR directional control is uncertain.	LESS THAN POOR

to last viewed slide

Runway Condition Assessment Worksheet

RCAM

WAAA	Aerodrome
01211710	Date/Time (UTC) of assessment (MMDDhhmm)
03	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

- 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

RWYCC: 2

Dry: 6

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

Depth: 4mm — Assessed depth (mm): 10

For Standing water 4mm depth have to be reported as Minimum

2nd RWY Third

For coverage 25% or **less** enter Code 6

- 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

RWYCC: 2

Dry: 6

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

Depth: 4mm — Assessed depth (mm): 10

For Standing water 4mm depth have to be reported as Minimum

3rd RWY Third

For coverage 25% or **less** enter Code 6

- 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

RWYCC: 2

Dry: 6

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

Depth: 4mm — Assessed depth (mm): 10

For Standing water 4mm depth have to be reported as Minimum

Situational Awareness Section / Notes

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.....

.....

[ ] TWY ..... Poor

[ ] Apron ..... Poor

[ ] Other .....

.....

.....

State approved CFME Braking coefficient

[ ] [ ] [ ]

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

1	1	1

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade Criteria

[√] AIREP [ ] CFME [√] Other

RCR

Aerodrome	Date & Time	RWY	RWYCC	% Coverage	Depth in mm
WAAA	01211710	03	1 / 1 / 1	100 / 100 / 100	10 / 10 / 10

Contaminant Type 1st third	Contaminant Type 2nd third	Contaminant Type 3rd third
STANDING WATER	STANDING WATER	STANDING WATER

Plain language remarks .....

Reduced RWY width in m (if applicable) .....

- Runway 07R/25L at Brussels Airport (EBBR), Belgium
- December 1, 2018 at 09:30 UTC
- It has been snowing lightly
- The runway has been plowed and swept continuously (last sweep at 09:00)
- There is still a very thin layer of snow covering the runway entirely. The snow is too flakey to form into a dense ball.
- You estimate the depth of the remaining snow on each RWY third to be less than 3 mm deep
- The OAT is – 10°C

to flow chart

to work sheet

Runway Condition Assessment Worksheet

RCAM

EBBR	Aerodrome
12010930	Date/Time (UTC) of assessment (MMDDhhmm)
07R	Lower Runway Designator
- 10 °C	Outside Air Temperature
	Initials

Assess the % coverage of runway contamination for each runway third

	< 10% coverage	≥ 10% - ≤ 25% coverage	> 25% coverage
	RWYCC - 6 for that third. No contaminant is reported	RWYCC - 6 for that third. Report contaminant at 25% coverage	Assign RWYCC based on contaminant present & temperature considerations
			√

NOTE: RCR not required if all RWY thirds have <10% coverage (unless making a final report to advise the RWY is no longer contaminated)

1st RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 5

Dry	Wet (Damp)	Frost	Slippery Wet (Below Min Friction Level Classification)
6	5	5	3
	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Standing Water/ Slush	Slush	Wet snow or Dry snow	Dry or wet snow on compacted snow
2	5	3 / 5	3
>3mm	3mm or less	>3mm / 3mm or less	
% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Depth: 3mm or less | Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below		Above -15°C	
% Cov. 25/50/75/100	4	Compacted snow	3 % Cov. 25/50/75/100

Ice	Wet Ice, Water on compacted snow, snow on ice
% Cov. 25/50/75/100	1
	0 % Cov. 25/50/75/100

2nd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 5

Dry	Wet (Damp)	Frost	Slippery Wet (Below Min Friction Level Classification)
6	5	5	3
	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Standing Water/ Slush	Slush	Wet snow or Dry snow	Dry or wet snow on compacted snow
2	5	3 / 5	3
>3mm	3mm or less	>3mm / 3mm or less	
% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Depth: 3mm or less | Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below		Above -15°C	
% Cov. 25/50/75/100	4	Compacted snow	3 % Cov. 25/50/75/100

Ice	Wet Ice, Water on compacted snow, snow on ice
% Cov. 25/50/75/100	1
	0 % Cov. 25/50/75/100

3rd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 5

Dry	Wet (Damp)	Frost	Slippery Wet (Below Min Friction Level Classification)
6	5	5	3
	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Standing Water/ Slush	Slush	Wet snow or Dry snow	Dry or wet snow on compacted snow
2	5	3 / 5	3
>3mm	3mm or less	>3mm / 3mm or less	
% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Depth: 3mm or less | Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below		Above -15°C	
% Cov. 25/50/75/100	4	Compacted snow	3 % Cov. 25/50/75/100

Ice	Wet Ice, Water on compacted snow, snow on ice
% Cov. 25/50/75/100	1
	0 % Cov. 25/50/75/100

Situational Awareness Section

- ☐ RWY Reduced length LDA ..... m
- ☐ RWY Drifting snow ☐ RWY Loose sand
- ☐ RWY Snowbanks L of CL ..... m / R of CL ..... m
- ☐ TWY Snowbanks L of CL ..... m / R of CL ..... m
- ☐ Asymm. reduced RWY width R/L ..... m FM CL
- ☐ TWY ..... Poor
- ☐ Apron ..... Poor
- ☐ Other _____

Scenario data

RWY Treatment Used?

Time Applied: 0900

☐ Chem. Treatment ☐ Liquid ☐ Solid ☑ Plowed ☑ Swept ☐ Sanded ☐ Scarified

Notes _____

State approved CFME Braking coefficient

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade Criteria

☐ AIREP ☐ CFME ☐ Other

RCR

Aerodrome	Date & Time	RWY	RWYCC	% Coverage	Depth in mm
EBBR	12010930	07R	5 / 5 / 5	100 / 100 / 100	03 / 03 / 03

Contaminant Type 1st third	Contaminant Type 2nd third	Contaminant Type 3rd third
DRY SNOW	DRY SNOW	DRY SNOW

Plain language remarks: RWY 07R PLOWED AND SWEPT FULL LENGTH AND WIDTH AT 0900,

Reduced RWY width in m (if applicable)

AIRPORTS COUNCIL INTERNATIONAL

Testimonials and Feedback

BA **Benton**
★★★★★ · 31 Mar 2019

This is a very important course for the way forward in RCR. The methods employed will significantly reduce the level of subjectivity involved in assessing runway condition. I will strongly recommend its implementation at my airport. Thanks ACI - job well done.

RT **Rishi**
★★★★★ · 02 May 2019

5 Star.very well presented and concepts easily understood with good exercises.Complex material was easily explained. I will suggest that this course be mandatory for all operational personnel.Highly recommended.

A **Anonymous**
★★★★★ · 18 Mar 2019

Clear, concise, informative and very nicely put together.

TJ **Ttal**
★★★★★ · 17 Mar 2019

KK **Kalisiane**
★★★★★ · 19 Mar 2019

TA **Tiago Alexandre**
★★★★★ · 19 Mar 2019

FD **Frank**
★★★★★ · 16 Apr 2019

Good Quality, easy understandable Content, nice presentation

A **Anonymous**
★★★★★ · 21 Mar 2019

Good Course

AIRPORTS COUNCIL INTERNATIONAL

Testimonials and Feedback

AO **Abdullahi Omuya**
★★★★★ · 21 Apr 2019

The Global Reporting Format course highlighted the key changes in runway condition assessment and reporting. The most interesting part of the course was the introduction of Runway Condition Assessment Worksheet as a job aid to help generate Runway Condition Report RCR. In addition, the example scenarios were very useful.

JL **Jan**
★★★★★ · 17 Apr 2019

A comprehensive tool that will surely contribute to prepare airport operators and their personnel to be ready for the implementation of GRF in November 2020. A 'must have', better yet : a 'must follow'-course for all airport stakeholders involved !

DG **David**
★★★★★ · 18 Mar 2019

AB **Alex**
★★★★★ · 21 Apr 2019

course was very imformative and just awesome.. well developed and structured... thanks

A **Anonymous**
★★★★★ · 09 Apr 2019

This course has helped me in working out the Runway codes for contaminated runways.

YB **Yves**
★★★★★ · 14 Mar 2019

ER **Eddie**
★★★★★ · 24 Mar 2019

A **Anonymous**
★★★★★ · 24 Mar 2019

I think that the course is very useful to get a good understanding of the Global Reporting Format

Final Notes – GRF online course

- Duration: 3 hours (approx.)
- Self-paced; start-stop anytime
- Certificate of Completion issued
- Will remain in your online library for reference – you can go back to it as often as you want

Any Questions?

For more information or register go to
www.olc.aero or contact
enrolments@olc.aero

Final Notes – GRF online course

- Duration: 3 hours (approx.)
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Any Questions?

For more information or register go to
www.olc.aero or contact
enrolments@olc.aero

- Runway 03/21 at Kiruna Airport (ESNQ), Sweden (Lapland)
- November 25th, 2018 at 07:40 UTC
- The runway is completely covered by compacted snow
- The OAT is – 14°C
- The operations vehicle, equipped with a continuous friction measuring device, experienced no difficulties with either directional control or braking effectiveness
- The measured Mμ values are : 50/45/50
- A pilot reported at 7:36 UTC the braking performance as Good

to flow chart

to work sheet

Runway Condition Assessment Worksheet

RCAM

ESNQ	Aerodrome
11250740	Date/Time (UTC) of assessment (MMDDhhmm)
03	Lower Runway Designator
- 14 °C	Outside Air Temperature
	Initials

Assess the % coverage of runway contamination for each runway third

[ ] < 10% coverage RWYCC - 6 for that third. No contaminant is reported	[ ] ≥ 10% - ≤ 25% coverage RWYCC - 6 for that third. Report contaminant at 25% coverage	[√] > 25% coverage Assign RWYCC based on contaminant present & temperature considerations

NOTE: RCR not required if all RWY thirds have <10% coverage (unless making a final report to advise the RWY is no longer contaminated)

1st RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 3

Dry	Wet (Damp)	Frost	Slippery Wet (Below Min Friction Level Classification)
6	5	5	3
	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Standing Water/ Slush	Slush	Wet snow or Dry snow		Dry or wet snow on compacted snow
2	5	3	5	3
>3mm	3mm or less	>3mm	3mm or less	
% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100		% Cov. 25/50/75/100

Depth: 3mm or less | Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below	Above -15°C
% Cov. 25/50/75/100	% Cov. 25/50/75/100
4	3
Compacted snow	

Ice	Wet Ice, Water on compacted snow, snow on ice
% Cov. 25/50/75/100	% Cov. 25/50/75/100
1	0

2nd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 3

Dry	Wet (Damp)	Frost	Slippery Wet (Below Min Friction Level Classification)
6	5	5	3
	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Standing Water/ Slush	Slush	Wet snow or Dry snow		Dry or wet snow on compacted snow
2	5	3	5	3
>3mm	3mm or less	>3mm	3mm or less	
% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100		% Cov. 25/50/75/100

Depth: 3mm or less | Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below	Above -15°C
% Cov. 25/50/75/100	% Cov. 25/50/75/100
4	3
Compacted snow	

Ice	Wet Ice, Water on compacted snow, snow on ice
% Cov. 25/50/75/100	% Cov. 25/50/75/100
1	0

3rd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 3

Dry	Wet (Damp)	Frost	Slippery Wet (Below Min Friction Level Classification)
6	5	5	3
	% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100

Standing Water/ Slush	Slush	Wet snow or Dry snow		Dry or wet snow on compacted snow
2	5	3	5	3
>3mm	3mm or less	>3mm	3mm or less	
% Cov. 25/50/75/100	% Cov. 25/50/75/100	% Cov. 25/50/75/100		% Cov. 25/50/75/100

Depth: 3mm or less | Assessed depth (mm):

Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

-15°C or below	Above -15°C
% Cov. 25/50/75/100	% Cov. 25/50/75/100
4	3
Compacted snow	

Ice	Wet Ice, Water on compacted snow, snow on ice
% Cov. 25/50/75/100	% Cov. 25/50/75/100
1	0

Situational Awareness Section

- [ ] RWY Reduced length — LDA ..... m
- [ ] RWY Drifting snow
- [ ] RWY Loose sand
- [ ] RWY Snowbanks L of CL ..... m / R of CL ..... m
- [ ] TWY Snowbanks L of CL ..... m / R of CL ..... m
- [ ] Asymm. reduced RWY width R/L ..... m FM CL
- [ ] TWY ..... Poor
- [ ] Apron ..... Poor
- [ ] Other _____

Scenario data

RWY Treatment Used?

Time Applied: _____

- [ ] Chem. Treatment
  - [ ] Liquid
  - [ ] Solid
- [ ] Plowed
- [ ] Swept
- [ ] Sanded
- [ ] Scarified

Notes _____

State approved CFME Braking coefficient

50	45	50

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

[ ] [ ] [ ]

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade Criteria

- [ ] AIREP
- [ ] CFME
- [ ] Other

RCR

Aerodrome	Date & Time	RWY	RWYCC	% Coverage	Depth in mm
ESNQ	11250740	03	3 / 3 / 3	100 / 100 / 100	NR / NR / NR

Contaminant Type 1st third	Contaminant Type 2nd third	Contaminant Type 3rd third
COMPATCTED SNOW	COMPACTED SNOW	COMPACTED SNOW

Plain language remarks .....

Reduced RWY width in m (if applicable)

- Runway 12/30 at Hobart International Airport (YMHB), Tasmania, Australia
- July 2nd, 2018 at 12:30 UTC
- Light snow is covering the runway surface evenly; it's possible to make a snow ball with this kind of snow. But the snow is quickly becoming more water saturated.
- The OAT is 0°C and a temperature rise is forecast
- The depth of the snow layer is estimated at 5 mm
- An A318 pilot reported the braking performance as medium to poor

to flow chart

to worksheet

Runway Condition Assessment Worksheet

RCAM

YMHB	Aerodrome
07021230	Date/Time (UTC) of assessment (MMDDhhmm)
12	Lower Runway Designator
0 °C	Outside Air Temperature
	Initials

Assess the % coverage of runway contamination for each runway third

☐ **< 10% coverage** RWYCC - 6 for that third. No contaminant is reported	☐ **≥ 10% - ≤ 25% coverage** RWYCC - 6 for that third. Report contaminant at 25% coverage	☑ **> 25% coverage** Assign RWYCC based on contaminant present & temperature considerations

NOTE: RCR not required if all RWY thirds have <10% coverage (unless making a final report to advise the RWY is no longer contaminated)

1st RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 3

Dry: 6	Wet (Damp): 5 (% Cov. 25/50/75/100)	Frost: 5 (% Cov. 25/50/75/100)	Slippery Wet (Below Min Friction Level Classification): 3 (% Cov. 25/50/75/100)	
Standing Water/ Slush: 2 (>3mm, % Cov. 25/50/75/100)	Slush: 5 (3mm or less, % Cov. 25/50/75/100)	Wet snow or Drysnow: 3 (>3mm) / 5 (3mm or less, % Cov. 25/50/75/100)	Dry or wet snow on compacted snow: 3 (% Cov. 25/50/75/100)	
Depth: 3mm or less	Assessed depth (mm): 05			
Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow				
-15°C or below: % Cov. 25/50/75/100, 4 Compacted snow	Above -15°C: 3, % Cov. 25/50/75/100			
Ice: % Cov. 25/50/75/100, 1	Wet Ice, Water on compacted snow, snow on ice: 0, % Cov. 25/50/75/100			

2nd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 3

Dry: 6	Wet (Damp): 5 (% Cov. 25/50/75/100)	Frost: 5 (% Cov. 25/50/75/100)	Slippery Wet (Below Min Friction Level Classification): 3 (% Cov. 25/50/75/100)	
Standing Water/ Slush: 2 (>3mm, % Cov. 25/50/75/100)	Slush: 5 (3mm or less, % Cov. 25/50/75/100)	Wet snow or Drysnow: 3 (>3mm) / 5 (3mm or less, % Cov. 25/50/75/100)	Dry or wet snow on compacted snow: 3 (% Cov. 25/50/75/100)	
Depth: 3mm or less	Assessed depth (mm): 05			
Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow				
-15°C or below: % Cov. 25/50/75/100, 4 Compacted snow	Above -15°C: 3, % Cov. 25/50/75/100			
Ice: % Cov. 25/50/75/100, 1	Wet Ice, Water on compacted snow, snow on ice: 0, % Cov. 25/50/75/100			

3rd RWY Third

For coverage 25% or **less** enter Code 6

- Identify any contaminant that covers more than 25% of the RWY third
- Identify % coverage
- Identify depth (if applicable)
- Identify Runway Condition Code
- Record the most restrictive code in the box to the right

RWYCC: 3

Dry: 6	Wet (Damp): 5 (% Cov. 25/50/75/100)	Frost: 5 (% Cov. 25/50/75/100)	Slippery Wet (Below Min Friction Level Classification): 3 (% Cov. 25/50/75/100)	
Standing Water/ Slush: 2 (>3mm, % Cov. 25/50/75/100)	Slush: 5 (3mm or less, % Cov. 25/50/75/100)	Wet snow or Drysnow: 3 (>3mm) / 5 (3mm or less, % Cov. 25/50/75/100)	Dry or wet snow on compacted snow: 3 (% Cov. 25/50/75/100)	
Depth: 3mm or less	Assessed depth (mm): 05			
Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow				
-15°C or below: % Cov. 25/50/75/100, 4 Compacted snow	Above -15°C: 3, % Cov. 25/50/75/100			
Ice: % Cov. 25/50/75/100, 1	Wet Ice, Water on compacted snow, snow on ice: 0, % Cov. 25/50/75/100			

Situational Awareness Section

- ☐ RWY Reduced length LDA ..... m
- ☐ RWY Drifting snow ☐ RWY Loose sand
- ☐ RWY Snowbanks L of CL ..... m / R of CL ..... m
- ☐ TWY Snowbanks L of CL ..... m / R of CL ..... m
- ☐ Asymm. reduced RWY width R/L ..... m FM CL
- ☐ TWY ..... Poor
- ☐ Apron ..... Poor
- ☐ Other

Scenario data

RWY Treatment Used?

Time Applied: _____

☐ Chem. Treatment ☐ Plowed ☐ Swept ☐ Sanded ☐ Scarified

→ ☐ Liquid ☐ Solid

Notes

State approved CFME Braking coefficient

☐ ☐ ☐

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

2 2 2

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade Criteria

☑ AIREP ☐ CFME ☑ Other

RCR

Aerodrome	Date & Time	RWY	RWYCC	% Coverage	Depth in mm
YMHB	07021230	12	2 / 2 / 2	100 / 100 / 100	05 / 05 / 05

Contaminant Type 1st third	Contaminant Type 2nd third	Contaminant Type 3rd third
WET SNOW	WET SNOW	WET SNOW

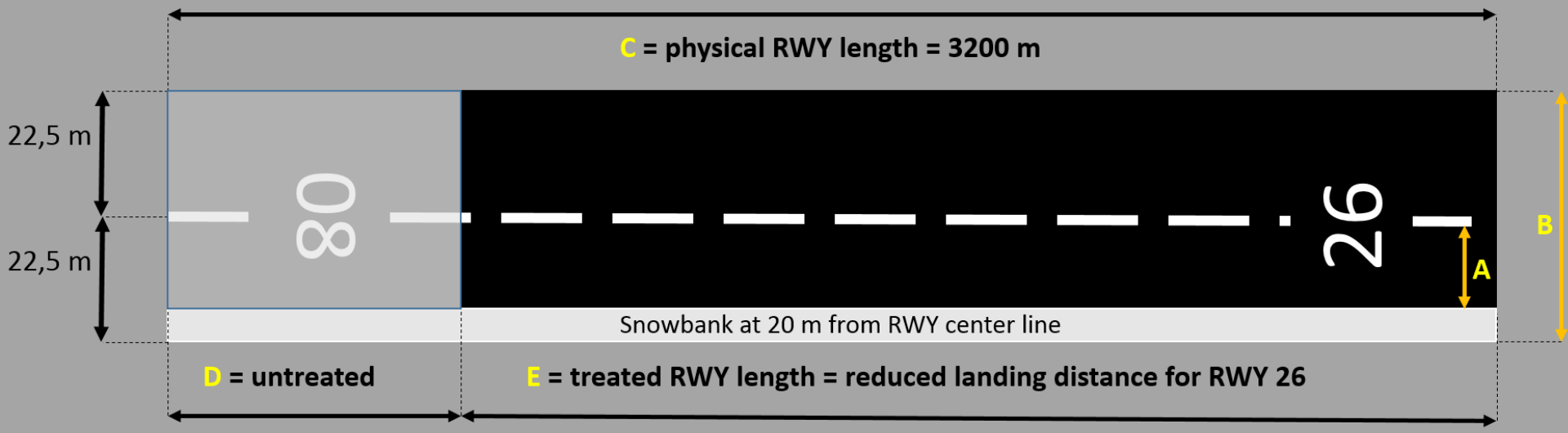
Plain language remarks .....

Reduced RWY width in m (if applicable)

- RWY 08/26 at Oostende (EBOS), Belgium, Febr. 2nd 2018 06:35 UTC
- It has been snowing all night. Snow plowing and sweeping has been done and liquid de-icer was applied at 06:00 on a part of the RWY
- The northern half of the RWY is cleared from the centreline up to the edge, but the southern half is only cleared up to 20m from the centreline, where a snowbank is formed
- On the treated part of the runway, the surface is still covered with slush up to 1 cm thick
- Where no treatment was done, the surface is still covered with 5 cm of snow; snow of the kind you can make a solid snow ball with
- Full RWY length is **not** available – landing distance RWY 26 is 2600 m
- Wind 250°/5 kts OAT -1°C

to flow chart
to work sheet
to EBOS situation sketch

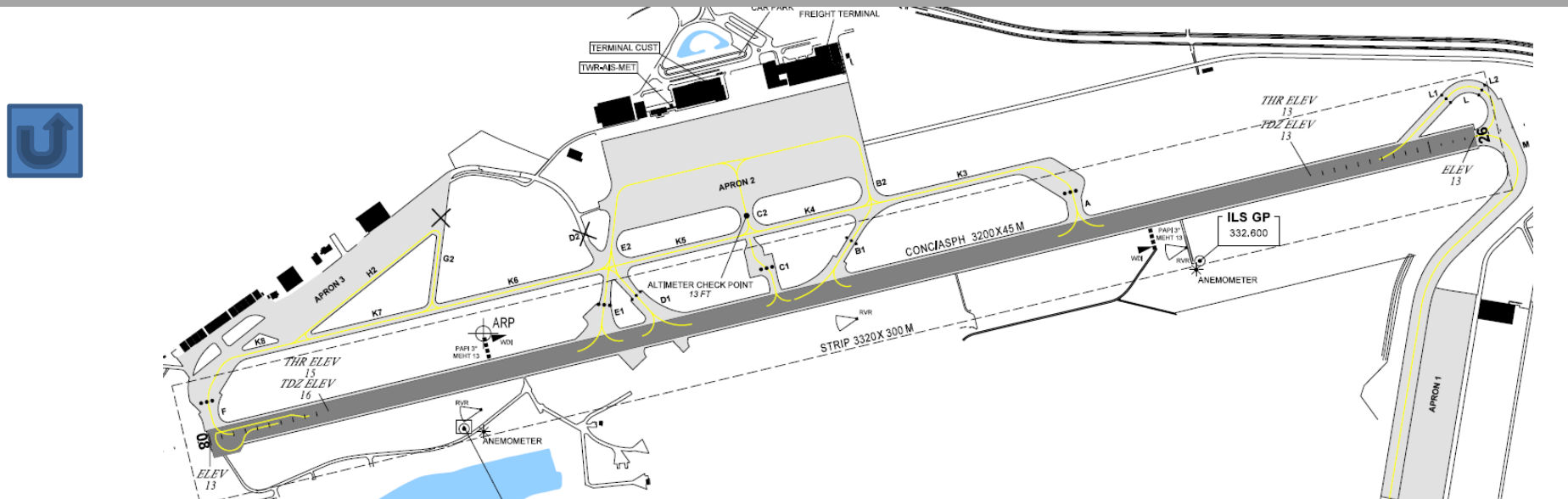
North side of the RWY



A = 20 m

South side of the RWY

B = 45 m which is the physical RWY width



EBOS	Aerodrome
02020635	Date/Time (UTC) of assessment (MMDDhhmm)
08	Lower Runway Designator
-1 °C	Outside Air Temperature
	Initials

Scenario data ▶ to EBOS situation sketch ▶ RCAM ▶

Assess the % coverage of runway contamination for each runway third

	< 10% coverage	≥ 10% - ≤ 25% coverage	√ > 25% coverage
	RWYCC - 6 for that third. No contaminant is reported	RWYCC - 6 for that third. Report contaminant at 25% coverage	Assign RWYCC based on contaminant present & temperature considerations

NOTE: RCR not required if all RWY thirds have <10% coverage (unless making a final report to advise the RWY is no longer contaminated)

1st RWY Third	2nd RWY Third	3rd RWY Third
For coverage 25% or less enter Code 6	For coverage 25% or less enter Code 6	For coverage 25% or less enter Code 6
- Identify any contaminant that covers more than 25% of the RWY third - Identify % coverage - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right	- Identify any contaminant that covers more than 25% of the RWY third - Identify % coverage - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right	- Identify any contaminant that covers more than 25% of the RWY third - Identify % coverage - Identify depth (if applicable) - Identify Runway Condition Code - Record the most restrictive code in the box to the right
RWYCC: 2	RWYCC: 2	RWYCC: 2
Dry: 6	Dry: 6	Dry: 6
Wet (Damp): 5 (% Cov. 25/50/75/100)	Wet (Damp): 5 (% Cov. 25/50/75/100)	Wet (Damp): 5 (% Cov. 25/50/75/100)
Frost: 5 (% Cov. 25/50/75/100)	Frost: 5 (% Cov. 25/50/75/100)	Frost: 5 (% Cov. 25/50/75/100)
Slippery Wet (Below Min Friction Level Classification): 3 (% Cov. 25/50/75/100)	Slippery Wet (Below Min Friction Level Classification): 3 (% Cov. 25/50/75/100)	Slippery Wet (Below Min Friction Level Classification): 3 (% Cov. 25/50/75/100)
Standing Water/ Slush: 2 (>3mm, % Cov. 25/50/75/100)	Standing Water/ Slush: 2 (>3mm, % Cov. 25/50/75/100)	Standing Water/ Slush: 2 (>3mm, % Cov. 25/50/75/100)
Slush: 5 (3mm or less, % Cov. 25/50/75/100)	Slush: 5 (3mm or less, % Cov. 25/50/75/100)	Slush: 5 (3mm or less, % Cov. 25/50/75/100)
Wet snow or Dry snow: 3 (>3mm), 5 (3mm or less, % Cov. 25/50/75/100)	Wet snow or Dry snow: 3 (>3mm), 5 (3mm or less, % Cov. 25/50/75/100)	Wet snow or Dry snow: 3 (>3mm), 5 (3mm or less, % Cov. 25/50/75/100)
Dry or wet snow on compacted snow: 3 (% Cov. 25/50/75/100)	Dry or wet snow on compacted snow: 3 (% Cov. 25/50/75/100)	Dry or wet snow on compacted snow: 3 (% Cov. 25/50/75/100)
Depth: 3mm or less; Assessed depth (mm): 10	Depth: 3mm or less; Assessed depth (mm): 10	Depth: 3mm or less; Assessed depth (mm): 10
Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow	Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow	Mark depth only for: Standing Water, Slush, Wet or Dry Snow, Any snow on top of compacted snow

In addition in the plain language remarks :

RWY 08 REMAINDER 50 mm WET SNOW. RWY 08 CHEMICALLY TREATED.

Ice: 1

Wet Ice, Water on compacted snow, snow on ice: 0 (% Cov. 25/50/75/100)

Situational Awareness Section

- [√] RWY Reduced length — LDA 2600 m
- [ ] RWY Drifting snow
- [ ] RWY Loose sand
- [√] RWY Snowbanks L of CL ..... m / R of CL 20 m
- [ ] TWY Snowbanks L of CL ..... m / R of CL ..... m
- [√] Asymm. reduced RWY width R 20 m FM CL
- [ ] TWY ..... Poor
- [ ] Apron ..... Poor
- [ ] Other

RWY Treatment Used? Time Applied: 0600

- [√] Chem. Treatment
  - [√] Liquid
  - [ ] Solid
- [√] Plowed
- [√] Swept
- [ ] Sanded
- [ ] Scarified

Notes

State approved CFME Braking coefficient

Mμ not to be transmitted in RWY Condition Report

Adjusted RWYCC

ONLY if Downgrade/ Upgrade Assessments used

Downgrade/ Upgrade Criteria: [ ] AIREP [ ] CFME [ ] Other

RCR

Aerodrome	Date & Time	RWY	RWYCC	% Coverage	Depth in mm
EBOS	02020635	08	2 / 2 / 2	100 / 100 / 100	10 / 10 / 10

Contaminant Type 1st third: SLUSH / Contaminant Type 2nd third: SLUSH / Contaminant Type 3rd third: SLUSH

Plain language remarks: RWY 26 LDA REDUCED TO 2600. RWY 08 SNOWBANK R20 FM CL. RWY 08 REDUCED CLEARED WIDTH R20 FM CL. +

Reduced RWY width in m (if applicable): 42