

# Area 3

# SARPS<sub>(1)</sub>

- Provides terrain and obstacle data for the movement area.
- This applies to a defined area around all runways, taxiways and aprons, etc.
- The area is defined as extending:
  - 90m from the centreline of all runways;
  - 50m from the edge of all other movement areas.
- Movement areas means those parts of an aerodrome used for the take-off, landing and taxiing of aircraft:
  - Including apron(s).

# SARPS<sub>(2)</sub>

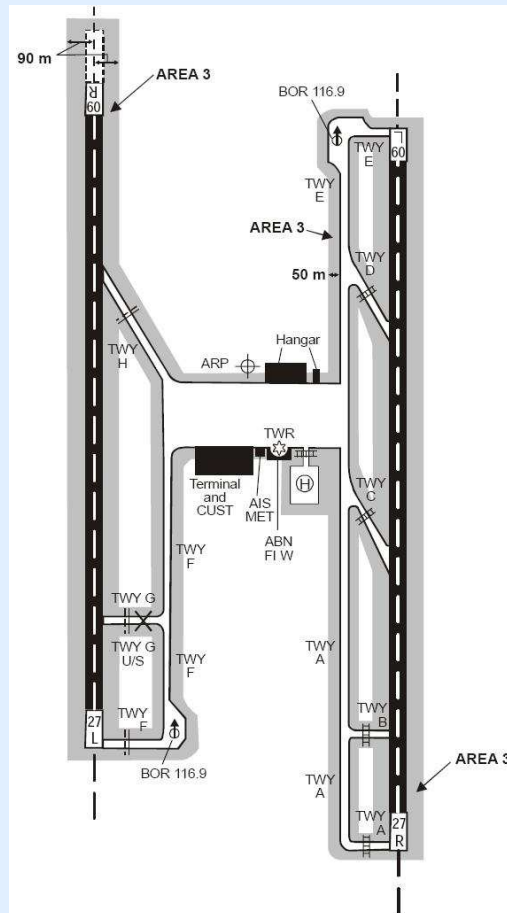
- Terrain and obstacles shall be collected in accordance with the Area 3 numerical requirements where:
  - They extend more than half a metre (0.5 m) above the horizontal plane passing through the nearest point on the aerodrome/heliport movement area.

# SARPS<sub>(3)</sub>

- Area 3 Numerical Requirements:

Terrain	Obstacles
0.6 arc second / 20m post spacing;	
0.5m vertical accuracy;	0.5m vertical accuracy;
0.01m vertical resolution;	0.01m vertical resolution;
0.5m horizontal accuracy;	0.5m horizontal accuracy;
90% confidence level;	90% confidence level;
$1 \times 10^{-5}$ integrity level (Essential);	$1 \times 10^{-5}$ integrity level (Essential);
To be maintained as required.	To be maintained as required.

# Area 3 SARPS – Graphical Portrayal



# Findings of Research

- As defined, no uses for the data were found.
- The specification results in “islands” of data with no other information to put them into context.
- Would make more sense when supported by an Airport Mapping Database (AMDB):
  - This was the intent of the original requirements of RTCA/EUROCAE.
- If the complete area within the aerodrome boundary was included, more applications would be supported:
  - E.g. Surface movement of ground vehicles.

# Proposals for Change

- The TOD WG concluded that the numerical requirements and coverage should remain the same.
- However, it is proposed that the Standard is reduced to a Recommended Practice:
  - Suggested that data is provided when considered beneficial e.g. when supported by an AMDB.
- The guidance material will recommend that the coverage is increased to cover the entire aerodrome/heliport.