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1.1 ????????

Vertiport □□□□□□□□□□□□□□□□

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Layer 0 – □□□□□□Heliport□

- └─ ICAO Annex 14 Vol II → □□□□□□
- └─ ICAO Doc 9261 5th ed. → □□□□□□
- └─ FAA AC 150/5390-2D → □□□□□□□□
- └─ MH 5013-2023 → □□□□□□□□□□

Layer 1 – Vertiport □□□□

- └─ EASA PTS-VPT-DSN 2022 → □□□□□□□□
- └─ FAA EB105A 2024 → □□□□□□□□
- └─ CASA AC139.V-01 2023 → □□□□□□□□
- └─ T/CCAATB 0062-2024 → □□ eVTOL □□□□□□

Layer 2 – □□□□□□□□

- └─ FAA eVTOL Downwash/Outwash Surveys 2024 → □□/□□□□
- └─ FAA Vertiport Electrical Infrastructure Study → □□□□□□
- └─ FAA AAM Implementation Plan / UAM ConOps → □□□□
- └─ NASA Vertiport Automation System → □□□□□□
- └─ CASA AAM Considerations / RPAS Roadmap → □□□□□□
- └─ CASA Draft AC139-10 2025 → □□□□□□
- └─ Heliport Workshop 2011/2012 → FAA/ICAO □□□□

□□	□□□□ (Layer 0)	Vertiport □□ (Layer 1)	□□□□□
K2 □□□□	FATO / TLOF / Safety Area / Stand	□□□□□□ D→RD □□□□ /□□□□	□ □□□□□
K3 □□□□□□□□□□	OLS □□□□ /□□□□□□ / □□□□	OFV □□□□□□ / DCA □□□□	□ □□□□□□□
K4 □□ /□□	□□□□ downwash □□□□	eVTOL □□□□□□□□□□□□□□ □□	△ □□□□□□□□
K5 □□□□	□□□□□□□□□□	□□□□□□□□□□□□□□ □□□□	△ □□□□□□□□□□□□
K6 □□□□□□	□□□□□□□□□□	UAM/AAM □□□□□□□□□□□□	△ □□□□□□□□□□

1.4 ????????

□□ T/CCAATB 0062-2024 □□□□□□□□□□

□□ = MH5013 □□□□□□ + EASA OFV □□□□□□ + eVTOL □□□□□□

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- └ □6□ □□□□□□ → 6.1 □□ MH5013 OLS□6.2 □□ EASA OFV□□□□□□ D+h0
- └ □7□ □□□□ → □□□□□□□□/□□/□□
- └ □8□ □□□□ → □□□□□□ eVTOL □□□□□□
- └ □9□ □□□□ → □□□□ MH5013□□□□□□□□□□□□□□□□
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2.1 ????????

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1. □□□□□□□□
2. □□□□ Heliport □□□□□□□□□□□□
3. □□ OLS □□□□□□□□□□
4. EASA/CASA/□□□□□□□□ OLS □□□□ OFV

1 OFV / downwash/outwash

OFV eVTOL / OFV FAA 2024
eVTOL Downwash/Outwash Surveys Outwash-Surveys-2024.pdf eVTOL Safety Area

OFV / OFV

"OFV DCA " OFV /

2 h0

"h0 " h0

h0 → OLS → OFV

"h0 " h0

3

OFV " " "

- 1. OFV D h0 eVTOL vs vs EASA AFM TOWidth TOfront TOback
2. OFV h0 <= D h0 > D 45 + h0=D
3. FATO OFV 2D 2D~4D 2D 4D

" OFV "

4 FAA EB105A RD OFV

FAA D/RD FATO/TLOF RD OFV

FATO/TLOF RD OFV D "

"RD OFV "

5

