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1.1 ????????

Vertiport □□□□□□□□□□□□□□ "□" □□□□□□□□□□□□□□

Layer 0 – □□□□□Heliport□

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

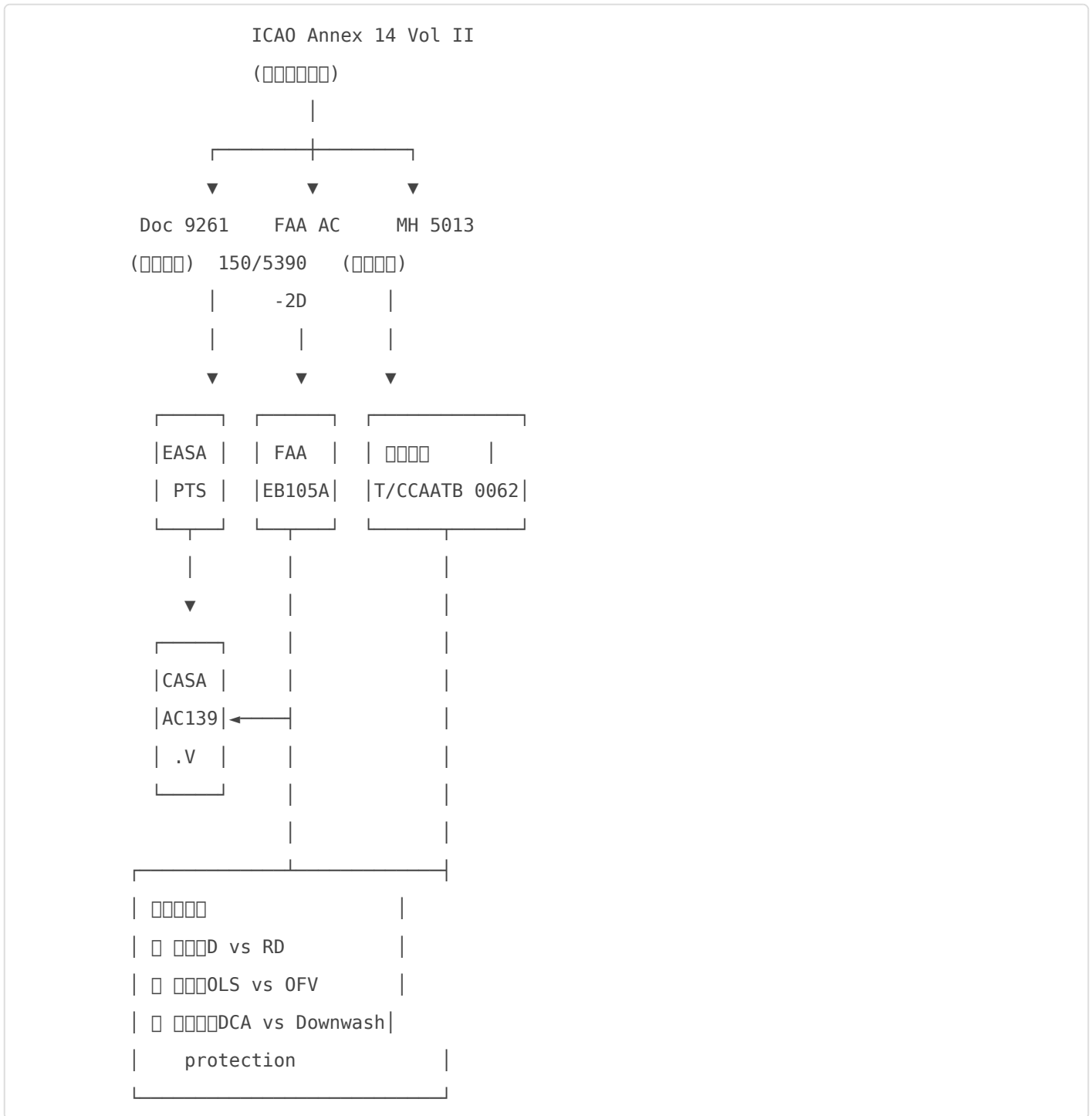
Layer 1 – Vertiport □□□□

- ├ 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 □□□□

1.2 ????????



1.3 ???????

□□ Vertiport □□□□□□ 6 □□□ □□□□□□□□ "□□ →□□ "□□□□□

□□	□□□□ (Layer 0)	Vertiport □□ (Layer 1)	□□□□□
K1 □□□□□	ICAO D / FAA OL / MH5013 D+RD	EASA Design D / FAA D+RD / □□ D	□ □□□□

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 "

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???? 2026-05-29
???? FAA EASA CASA Vertiport / AAM ???

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FAA	FAA-eb-105-Vertiports.pdf 2022 EB 105 51	???? FAA Engineering Brief 105A 2024-12-27 67	?????? FAA-EB-105A-Vertiport-Design-2024.pdf
EASA	EASA-Vertiport-design.pdf PTS-VPT-DSN 2022 179	PDF 2022 HTTP last-modified 2022-08-02 ????????	???????? EASA-PTS-VPT-DSN-current-official.pdf
CASA	CASA-Vertiport-design-draft.pdf 2022 draft 40	???? AC 139.V-01 Guidance for vertiport design 2023-07 Guide to vertiport design 2024-05	????????
EASA IAM	???? IAM	EASA 2025-07-09 IAM / ???? PTS-VPT-DSN	?? "???"

1. FAA ??

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FAA Engineering Brief

- EB 105A Vertiport Design, Supplemental Guidance to Advisory Circular 150/5390-2D, Heliport Design
- 2024-12-27
- FAA 2025-01-14 EB 105A Vertiports Industry Day

- [EASA-PTS-VPT-DSN-current-official.pdf](#)
- 179

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PDF EASA

“Issue 2 / 2024” EASA

EASA 2022 PTS-VPT-DSN

EASA 2025-07-09 IAM

SERA AMC/GM

3. CASA ??

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CASA

- Draft AC 139.V-01 v1.0 2022-11-30 2023-03-31
- Feedback updated 2023-07-12
- 36
- [AC 139.V-01 Guidance for vertiport design](#)

CASA

- [Guide to vertiport design](#)
- PDF 2024-05
- 4.54 MB
- AC 139.V-01 plain-English guide

2025

- CASA AC139.V-01 VTOL
- 2025 Draft AC 139-10

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CASA PDF

- <https://www.casa.gov.au/sites/default/files/2023-07/advisory-circular-139.v-01-guidance-vertiport-design.pdf>
- <https://www.casa.gov.au/sites/default/files/2024-05/guide-to-vertiport-design.pdf>

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□□□□ CASA-Vertiport-design-draft.pdf □□□□□□ CASA □□□□□□□□ AC
 139.V-01 □ 2024 Guide□

4. ??????

1. □□ FAA-EB-105A-Vertiport-Design-2024.pdf □□□□ FAA EB105 □□□□□□
2. □□ FAA-eb-105-Vertiports.pdf □□□□□□□□
3. EASA □□ 2022 PTS-VPT-DSN □□□□□□□□ Issue 2 □□□
4. CASA □□□□□□ AC 139.V-01 □ 2024 Guide□
5. □□□□□□□□ “□□□□ /□□□□ /□□□□ ”□□□

