# Guidelines for vertical flight aircraft facilities at aerodromes designed for aeroplanes - Draft Advisory Circular 139-10 v1.0

## Overview

We would like your feedback on draft guidance for vertical flight aircraft facilities at aerodromes designed for aeroplanes.

With the emergence of advanced air mobility (AAM) the aerodrome industry may soon start to see new vertical flight capable aircraft operating at their facilities. When considering the introduction of AAM aircraft at aerodromes designed to be used by aeroplanes, it became clear that many of the hazards and risks associated with AAM aircraft are also relevant to helicopter operations.

Draft Advisory Circular (AC) 139.10 v1.0 - Guidelines for vertical flight aircraft facilities at aerodromes designed for aeroplanes, is intended to provide guidance to aerodrome and aircraft operators in the planning, design, and operation of both helicopter and vertical take-off and landing (VTOL) capable aircraft (VCA) facilities on an aerodrome that may have only been designed for fixed-wing aeroplanes. It complements current guidance in AC [139.R-01](https://www.casa.gov.au/sites/default/files/2022-06/advisory-circular-139-r-01-guidelines-for-heliports-design-and-operation.pdf) and AC [139.V-01](https://www.casa.gov.au/sites/default/files/2023-07/advisory-circular-139.v-01-guidance-vertiport-design.pdf) and work is underway to incorporate the applicable elements this AC in the [Part 139 Manual of Standards](https://www.casa.gov.au/rules/regulatory-framework/casr/part-139-casr-aerodromes).

Draft AC 139.10 provides guidance on:

* defining the intended vertical flight operations for an aerodrome
* aerodrome specific downwash and outwash hazards
* arrival and departure procedures
* physical characteristics of vertical flight facilities
* vertical flight aircraft versus taxiways designed for aeroplanes
* obstacle limitation surfaces for vertical flight operations
* visual aids for vertical flight aircraft – markings, lighting etc.
* published information for vertical flight facilities.

This AC will be of interest to:

* aerodrome operators
* persons involved in the design, construction and operation of airports, heliports and vertiports
* proponents of airports, heliports and vertiports
* helicopter and VCA owners/operators
* planning authorities
* Part 175 aeronautical information service providers.

Why your views matter

We recognise the valuable contribution that community and industry consultation makes to the regulatory development process. Your feedback will increase our understanding of your needs and whether the draft AC provides adequate guidance on improving the safe integration of both current and future vertical flight aircraft at aerodromes designed for aeroplanes.

We are seeking feedback as to whether:

* the content and structure of the guidance provided is clear and sufficient
* it is fit for the purpose of helping aerodrome operators to address the hazards associated with integrating vertical flight facilities at their aerodromes
* it provides vertical flight aircraft operators with the tools to consult with aerodrome operators about their intended operations.

**Related Documents**

All documents related to this consultation are attached in the ‘Related’ section at the bottom of the overview page. They are:

* Draft AC 139.10 v1.0
* MS Word copy of online consultation for ease of distribution and feedback within your organisation.

Please submit your comments on the draft AC through the Consultation Hub using the survey provided. If you are unable to provide feedback this way, please email us at regulatoryconsultation@casa.gov.au.

Please read the AC document before providing your feedback.

**What happens next**

At the end of the response period, we will:

* review all comments received
* make responses publicly available on the consultation hub (unless you request your submission remain confidential)
* publish a Summary of Consultation which summarises the feedback received and outlines any intended changes and next steps.

Feedback that improves the guidance will be incorporated into the final guidance.

# Give Us Your Views

[Appears on the overview page at the bottom]

Online Survey

[This link is on the front page of the survey and takes you to the survey questions]

**Related**

[This section is at the bottom of the front page and contains all the links to other sites and documents related to this consultation]

**Related Documents**

List of documents attached to the consultation

* Draft AC 139-10 v1.0 - Guidelines for vertical flight aircraft facilities at aerodromes designed for aeroplanes
* MS Word copy of online consultation - Guidelines for vertical flight aircraft facilities at aerodromes designed for aeroplanes - Draft Advisory Circular 139-10 v1.0

# Audience & Interest groups

**Audience**

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| * Aerodrome operator
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| * Air operators
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| * Part 175 of CASR Aeronautical information service providers
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| * Certified aerodrome owner/operator
 |
| * Unregulated aerodrome owner/operator
 |
| * Aerodrome owner/operators
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| * CASA aerodrome inspector
 |
| * Aerodrome industry consultant
 |
| * Air transport operations – rotorcraft (Part 133)
 |
| * Aerial work operator (Part 138)
 |
| * Helicopter pilots
 |
| * Flight training operators - helicopters
 |
| * AOC holders operating helicopters
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| * Part 138 of CASR certificate holders operating helicopters
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| * Potential AAM operators
 |
| * AAM aircraft manufacturers
 |
| * Potential AAM pilots
 |
| * AAM consultants
 |
| * Vertiport developers
 |
| * Potential vertiport owner and operator
 |
| * Local and state planners
 |
| * Part 173 of CASR Instrument flight procedure designers
 |
| * Aerodrome industry consultant
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**Interest**

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| * Airspace and infrastructure
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| * Hazards
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| * Advanced air mobility
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| * New and emerging technology
 |
| * Vertiports
 |
| * Aerodromes
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# Page 1. About this consultation

This consultation asks for your feedback on the Guidelines for vertical flight aircraft facilities at aerodromes designed for aeroplanes - Draft AC 139-10 v1.0.

We will ask you for:

* **personal information**, such as your name, any organisation you represent, and your email address
* **your consent** to publish your submission
* **your responses** to the proposed changes in the guidance
* **demographic information** to help us understand your interest in the guidance
* **any comments** you may want to provide

Our [website](https://www.casa.gov.au/rules/changing-rules/consultation-industry-and-public), contains more information on making a submission and what we do with your feedback.

# Page 2. Personal information

## First name

*(Required)*

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## Last name

*(Required)*

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## Email

*If you enter your email address, you will automatically receive an acknowledgement email when you submit your response.*

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## Do your views officially represent those of an organisation?

*(Required)*

*Please select only one item*

[ ]  Yes, I am authorised to submit feedback on behalf of an organisation

[ ]  No, these are my personal views.

## If yes, please specify the name of your organisation.

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Which of the following best describes the group you represent?

*Please select only one item*

[ ]  Aerodrome owner/operator

[ ]  Aerodrome industry consultant

[ ]  Aircraft owner/operator

[ ]  Air traffic control

[ ]  Part 175 and/or Part 173 provider

[ ]  Pilot

[ ]  Other

Please specify ‘Other’ if selected.

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# Page 3. Consent to publish submission

To provide transparency and promote debate, we intend to publish all responses to this consultation. This may include both detailed responses/submissions in full and aggregated data drawn from the responses received.

Where you consent to publication, we will include:

* **your last name** if the submission is made by you as an individual
* **the name of the organisation** on whose behalf the submission has been made
* **your responses** and comments

We **will not** include any other personal or demographic information in a published response

Do you give permission for your response to be published?

*(Required)*

*Please select only one item*

[ ]  Yes - I give permission for my response/submission to be published.

[ ]  No - I would like my response/submission to remain confidential but understand that de-identified aggregate data may be published.

[ ]  I am a CASA officer.

Information about how we consult and how to make a confidential submission is available on our [website](https://www.casa.gov.au/rules/changing-rules/consultation-industry-and-public) **.**

# Page 4. Feedback on Draft AC 139-10 Guidelines for vertical flight aircraft facilities at aerodromes designed for aeroplanes

The purpose of this Advisory Circular (AC) is to provide guidance to aerodrome and aircraft operators for the planning, design, and operation of both helicopter and vertical take-off and landing (VTOL) capable aircraft (VCA) facilities on an aerodrome that may have only been designed for fixed-wing aeroplanes. It complements current guidance in AC [139.R-01](https://www.casa.gov.au/sites/default/files/2022-06/advisory-circular-139-r-01-guidelines-for-heliports-design-and-operation.pdf) and AC [139.V-01](https://www.casa.gov.au/sites/default/files/2023-07/advisory-circular-139.v-01-guidance-vertiport-design.pdf) and work is underway to incorporate the applicable elements this AC in the [Part 139 Manual of Standards](https://www.casa.gov.au/rules/regulatory-framework/casr/part-139-casr-aerodromes).

**Link:** Draft AC 139-10 v1.0

**Question 1.** Do you think the guidance in the draft AC is fit for purpose?

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**Question 2.** Have we explained the concepts of vertical flight aircraft (either helicopters, advanced air mobility aircraft or a combination of both) and design aircraft clearly?

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**Question 3.** Do you think we have provided enough guidance on downwash and outwash hazards, and the different control measures available to aerodrome operators, and are our explanations on the subjects clear?

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**Question 4.** Does the draft guidance explain the obstacle limitation surfaces for vertical flight facilities clearly and provide sufficient reference to related guidance such as AC 139.R-01 and AC 139.V-01?

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**Question 5.** Do the physical characteristics specifications for vertical flight facilities make sense as described and are they practical and useable?

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**Question 6.** Does the draft guidance adequately emphasise the importance of the touch down positioning markings (TDPM) for both aerodrome operators and aircraft operators?

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**Question 7.** Does the draft guidance sufficiently cover published information recommendations in a way that can be easily understood? For example, chart symbology changes and publications such as en-route supplement Australia (ERSA) and runway distance supplement (RDS) recommendations.

Radio buttons

[ ]  Yes

[ ]  Yes, but with changes (please specify)

[ ]  No (please explain why)

[ ]  Not my area of expertise/not applicable

Comments

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**General comments**

Please provide any further comments you may have on draft AC 139-10 v1.0 in the comment box below. Please do not include points already raised.

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