



Version 1
12.12.2019

Authorisation request for drone FPV racing

Application for a permit to operate an unmanned aircraft weighing up to 1 kg for FPV races in accordance with Art. 18 para. 1 lit. b. of the Ordinance on Special Category Aircraft (OSCA) SR 748.941. An exception to the restrictions in accordance with Art. 17 para. 1 (constant direct eye contact) and Art. 17 para. 2 lit. c (operation within a radius of 100 meters from groups of people) of the OSCA is granted. **In this context, observers ensure that the race course is monitored and actively communicate with the pilots.**

Applicant

Company name / Name:

Address:

Town / Postcode:

Country:

Telephone no.:

e-mail:

Details of planned operation

Exact location of operation
(address/coordinates):

Date and time of operation:

Purpose of operation:

Number of pilots:

Drone model information

Monowing

Multicopter

Other (please specify)

Specific details of planned operation

Local civil and military aerodromes/heliports and their approach routes are known

Yes

No



Drone operation will take place outside the 5 km perimeter of a civil or military aerodrome/heliport (see Dronemap)	Yes	No
I am aware that operation in the vicinity of deployed emergency services is not permitted <i>In the event of sudden deployment of emergency services, drone operation must be aborted immediately.</i>	Yes	No
I understand the cantonal and municipal regulations and will comply with them throughout the operation	Yes	No
I understand the requirements of data protection and protection of personality and will comply with them throughout the operation	Yes	No

General operating conditions

The overflown area, the overflown persons and the airspace in which the operation takes place are under the control of the organiser and the crew	Yes	No
Access to the race course / safety zone for persons outside the control of the organiser or the race management is blocked	Yes	No
There is evidence of the agreement of both the local authorities and the land owner that the race may be conducted	Yes	No
Spectators are screened from the race course either with a safety net (minimum height of 5 m) or a closed cage	Yes	No
Between the net or cage and the audience is a safety zone at least 1.5 m wide, which is secured with barriers	Yes	No
Measures have been taken to ensure that operation of the unmanned aircraft takes place only within the enclosed race track	Yes	No
The selected flight height and the race course flown prevent overflying the safety net	Yes	No
The max. flight height is lower than the height of the net	Yes	No
During the flights, the pilots stay in a zone in which they are not distracted by external influences	Yes	No

Aircraft requirements

The propellers are not made from metal <i>Propellers made from metal must be protected from external contact. Please attach a photo if this is the case.</i>	Yes	No
The maximum take-off weight (including batteries) is 1 kg	Yes	No
The batteries consist of a maximum of 6 cells, each 25.5 Volts	Yes	No
A fail-safe mode is available	Yes	No

The fail-safe mode is activated in the following situations:

This will immediately stop the aircraft motors

- | | | |
|--|-----|----|
| 1. Automatically in the event of loss of the control link for more than a second | Yes | No |
| 2. Automatically when the pilot station is switched off | Yes | No |
| 3. The fail-safe mode can be activated manually | Yes | No |

One of the following frequency ranges is used for the control:

2.4 GHz, 868 MHz or 915 MHz

	Yes	No
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Requirements for pilots

The pilots are familiar with the stability of the drone and its behaviour. The pilots have more than 12 hours of flying experience with a drone or on a simulator and are familiar with the standard and emergency procedures

Yes	No
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Emergency procedures

What are the emergency procedures if persons are injured?

Is there a first-aid stand? Where is the nearest hospital? What is the number for the emergency services, etc.?

What are the emergency procedures in the event of a “fly-away” from the race course?

This could be an “engine-kill” function, for example

How is the coordination between race management, pilots and observers guaranteed? The communication channels between the race management and the pilots for immediate aborting of the flight must be described

The communication latency between the observers and the pilot is less than 15 seconds

Yes	No
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What are the emergency procedures for incoming air traffic?

What are the emergency procedures in the event of a fire or battery explosion?

Information on limitations

-Flying in icing conditions is not permitted (outside air temperature < 5°C in visible humidity).

-Maximum wind: 20 km/h; max. gusts: 30 km/h.

-Flying in rain, snow or hail is not permitted

I shall comply with the limits described above Yes No

Third party liability insurance

Third party liability claims made by third parties on the ground must be covered by the operator in a third party liability insurance policy with guaranteed cover of at least CHF 1 million (Ordinance on Special Category Aircraft [OSCA], SR 748.941, Art. 20).

Are the operators insured accordingly? Yes No

I, the undersigned, confirm that I have read the relevant requirements and confirm the accuracy of the information provided in the form completed above. Operation shall be performed according to the above information and complies with FOCA regulations.

Place

Date

Signature

Please send this form to: rpas@bazl.admin.ch