



香港唯一「無動力」慈善人力飛行大賽！  
The UNIQUE charitable human-powered flying competition of Hong Kong!

## **RULES & REGULATIONS**

### **(Marine Contest - Youth Group & Open Group)**

The 3rd Hong Kong Charity Birdman Flying Competition 2009 (hereinafter referred to as “Competition”) is organized by Chinese YMCA of Hong Kong and the Hong Kong Aviation Club Foundation (hereinafter refer to as ‘Organizers). The rules and regulations of the competition are set out as follow:

#### **(1) General**

- 1.1 The competition is not suitable for individuals with pre-existing medical conditions including, but not limited to heart disease, high blood pressure, asthma, primary epilepsy, get pregnant and drunk. Consult your physician with health risks associated with contact with the water and surrounding environment or any questions you have.
- 1.2 Contestants must report to event site at least 30 minutes before the competition is scheduled to begin.
- 1.3 Contestants must be able to swim at least 25 meters unassisted.
- 1.4 All filming or photographs of this competition belong to the Organizers and may be used for promotional purposes.

#### **(2) Briefing**

- 2.1 All contestants must attend a pre Event Briefing held at 7p.m. to 8:30p.m. on Thursday, 8 October 2009.
- 2.2 Attendance at the Event Briefing is a condition of entry.

#### **(3) Safety Inspection**

- 3.1 On the day of the Contest, a Safety Inspection will be held. The Contest safety scrutinizer will inspect:
  - the flying device
  - the contestant
  - the contestant's clothingfor conformity with the Design Rules generally.
- 3.2 Contestants that are considered by the Organizers to be under the influence of alcohol and drugs prior to their attempt will be disqualified.
- 3.3 All Contestants must be in attendance by their flying device and the clothing they intend to wear for the Contest, during this inspection.
- 3.4 If, in the opinion of the scrutinizers, any entered flying device, contestant or contestant's clothing does not comply with any of points 3.1 to 6.3 inclusive, and the safety of the contestant or any other person may be at risk, the participant will be disqualified from the Contest.
- 3.5 Contest scrutinizers have absolute discretion and their decision is final.

## **(4) Flying Device and Other Related Safety Issues**

### **4.1 Helmets, Life Vests, Footwear and Clothing**

- 4.1.1 Contestants may supply and wear a helmet. No motorcycle helmets may be used due to their greater weight and the dangers of water logging.
- 4.1.2 All contestants must supply and wear personal flotation device.
- 4.1.3 All contestants must wear footwear such as sneakers or runners, preferably with rubber-soles, but not any footwear that when filled with water may increase the difficulty of treading water, for example gumboots or any excessively loose footwear.
- 4.1.4 Contestants must not wear clothing that will restrict their ability to swim or their ability to exit the device. For example, the wearing of heavy coats or hoods would be inappropriate.
- 4.1.5 The design must anticipate structural failure of the flying device during flight or due to impact with water, and avoid using materials that will cause injury or create catch points.

### **4.2 Injury and Catch points**

- 4.2.1 Designs must avoid sharp edges, protruding components or pinch points.
- 4.2.2 Designs must avoid the use of a contestant's arms or any part of the body as the main 'structural' members of the flying device which may result in injury to the contestants.

### **4.3 Entry and Exit Points**

There must be two clear entry or exit points for the contestant in the flying device. These two entry or exit points must allow unobstructed full entry to, or full exit from the flying device within five seconds on dry ground. The design of these two entry and exit points must anticipate the flying device coming to rest upside down. In any case, the contestants must detach from the flying device within 5 seconds.

### **4.4 Construction, Materials and Flotation**

- 4.4.1 Where any hollow structural section is incorporated into a flying device it must be fully sealed to prevent water entering into it.
- 4.4.2 Consideration should be taken to including buoyancy devices within the design.

### **4.5 Characteristics and Weight of Flying Device**

The Competition is to design and build a human powered flying device which must adhere to the following requirements:

- 4.5.1 Wings and Wingspan: The flying device must not exceed a maximum wingspan of 2.5 meters. Wings may either be fixed, rotary, or flapping. For rotary or circular wings, the maximum allowable diameter is 2.5 meters. **While designing the wings and wingspan of their flying device, all contestants are advised to take into consideration that they are required to pass through two upright poles, to be spaced 2.5 meters apart on each side of the launch platform and located about 1.8 meters before the jumping-off point.**

- 4.5.2 Height: The flying device must not exceed a maximum height of 2.5 meters when on the ground.
- 4.5.3 Separate Launch Devices and Wheels: The flying device must not use any launching devices that separate from it prior to or during flight, for example bicycles, rails, husky teams, cars or boats and must not rest on, nor rely for any launch assistance on wheels.
- 4.5.4 Lighter than Air and Lifting Devices: The flying device must not be in any part lighter than air. Balloons, kites and parachutes are not allowed.
- 4.5.5 Stored Energy: The flying device must not incorporate any stored energy devices, including, but not limited to, gas under pressure, springs, elastics, oxidizing propellants.
- 4.5.6 Gears, Propellers and Motors
  - The flying device may incorporate gears, chains, pulleys or propellers only if these are powered by the physical efforts of the competitor alone.
  - Motors and engines of any kind are not allowed.
- 4.5.7 Weight: The flying device should weigh no more than 50% of the body weight of the contestant or 40kg whichever is lower.

#### **4.6 Pilot and Launch Assistance**

- 4.6.1 The flying device must be for one pilot only. Only one attempt will be allowed.
- 4.6.2 A flying device must not rely on more than three assistants and the pilot during launch.

#### **(5) Launch Platform**

- 5.1 Height: will be 5 meters above the height of the water.
- 5.2 Size of Ramp: will feature a level launching area 12 meters(length) by 2.5 meters(width)

#### **(6) Flying Distance**

The definition of attained flying distance:

- 6.1 First Contact: Will be established by the first contact point of a flying device or pilot with the water.

- 6.2 Measurement:

This distance will be defined by bands parallel to the leaping edge of the launch platform. Marker buoys or targets in the water, which may move due to the actions of wind, water currents or tides, will be taken to act as indicators only, and attained flying distance will be established solely by the judges appointed by the Organizer.

- 6.3 No correspondence will be entered into.

#### **(7) Amendment of Rules**

The Organizer reserves the right to alter, cancel or abandon any or all aspects of the Contest without notice and in its entire discretion.