

**BPA NATIONAL CHAMPIONSHIPS 2018  
IN WINGSUIT PERFORMANCE AND ACROBATIC FLYING**

**Venue:** Target Skysports

Hibaldstow Airfield, Hibaldstow, Brigg, N Lincs. DN20 9NN

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**Events: Wingsuit Performance & Acrobatics Flying**

The Nationals meet is held over the course of 3 days.

The Wingsuit Performance and Acrobatics events will run in parallel over the weekend.

Thursday: 1700 Deadline for final registration (both events). Draw for Acrobatics will take place during competition brief unless advised by meet director.

All competitors will make themselves available/report in at the drop zone at 08.00 of each day of competition for start of day brief and make themselves available for first load, unless informed by meet director the previous day or during the start of the day brief by the meet director.

### **1. COMPETITION DATES**

Friday 13 July – Sunday 15 July 2018

### **2. OTHER DATES**

a) Entry Form,

Entry Fees and booking in by 1700 on Thursday 12 July  
Nationals Entry Form & Indemnity Form can be found on BPA Form 274) and at

<http://www.skydivingchampionships.com/nationals.htm>

b) Competitors Briefing:

2000 Thursday 12 July

### **3. PRACTICE JUMPS**

Practice jumping will be allowed up to the end of jumping Thursday 12 July.

Note: At this time of year Target Skysports, Hibaldstow Airfield, Hibaldstow, Brigg is open 7 days a week. Any practice jumps will need to be paid for in full before start of competition.

#### 4. ENTRY FORMS AND FEES

- a) Completed Entry Forms accompanied by the Entry Fee must reach Target Skysports, Hibaldstow Airfield, Hibaldstow, Brigg by 17.00 Thursday 12 July
- b) General entry fees are **not** refundable under any circumstances.
- c) **Entries** will only be accepted up to 1700 on Thursday 12 July 2018 or at the discretion of the Meet Director.
- d) In the event of any competitor being unable through personal commitments, or injury, or any other reason, to complete any part of the competition, **no** outstanding jump fees will be refunded.
- e) Full refunds will be available on jumps not taken due to incomplete Events. However, this does not apply to eliminator rounds.
- f) Wingsuit Performance
  - 1. Entry Fee – £50 per person
  - 2. Jump Fees – 6 jumps in total @ £23 per jump = £138 plus entry fee
- g) Wingsuit Acrobatics
  - 1. Entry Fee - £50 per person
  - 2. Jump Fees – 7 rounds/jumps @ £69 per team jump @ £23 per slot = £483 per team - £161 per team member plus entre fee

#### 5. BOOKING IN

- a) All competitors must book in by 1700 on Thursday 12 July. Exceptions to this as agreed by the Meet Director / Organiser.
- b) All outstanding competition jump fees to be paid for when booking in (see note below).
- c) Wingsuit Performance – Jump fees . . . . . £23  
per person / per task
- d) Wingsuit Acrobatics – Jump Fees . . . . . £69  
per team / per round  
(£23 per person)
- e) Protest Fee . . . . . £10
- f) Re-jumps . . . . . All re-jumps at above rates

**Note:-** The above tariff includes a BPA levy towards the British Team Fund of £5.00 per entry fee and £1.00 per person per paid jump as required.

## 6. DOCUMENTATION

All competitors will be required to produce the following documentation when booking in:

a) British Championship Senior Category Teams - **Full** valid BPA membership.

British Championship Intermediate Category Teams - Valid BPA membership (Full or Temporary)

Open Class Competitors - A valid BPA Membership (Full or Temporary). Except in the case of other European Union (EU) parachutists, who are current members of their own country's parachuting governing organisation, have proof that they are not classified as student parachutists, have a minimum of 100 descents and hold current third party liability insurance cover of a minimum of €1,500,000.

b) Minimum BPA 'C' Licence and a minimum of 200 descents.

c) A current Medical Certificate/Declaration

d) The competitors current and up to date Parachutists Log Book.

e) Wingsuit Performance and Acrobatics UK competitors must have minimum WS1 (Hosting DZ CI has final approval). Competitors must have completed at least 20 jumps in the last 3 months.

f) **Sporting Licences:**

Sporting Licences are not required for entry into the senior categories of the British National Championships. However, competitors who do not wish to obtain or are not eligible for a valid UK Sporting Licence may only enter the competition as an "Guest" team and will not be eligible to receive medals other than as per rule 19 below. Any competitor who feels he/she/their team may achieve a world record which they wish to have recognised, during the Nationals (or at any other time), must have (a) current Sporting Licence(s) prior to achieving that record. Also, any competitor wishing to be eligible to represent the UK at an FCE must be eligible for a current UK Sporting Licence (eligibility criteria can be found on BPA Form 110). Competitors may obtain a new Licence or renewal at any time. Applications for a Sporting Licence or renewal must be made using BPA Form 110 directly to the BPA office. A fee applies. Sporting Licences or renewals will no longer be issued at BPA Clubs. Sporting licences should be applied for at least one month before the deadline for which they are required, as the BPA will require supporting documentation for those competitors not holding a UK passport. The Sporting Licence holder must be included on an FAI database by the BPA, at least one month prior to an FCE when representing the UK

## **7. ELIGIBILITY**

To participate in the British Nationals, the BPA has decided to comply with the FAI rules regarding eligibility.

Please refer to the FAI Sporting Code – General Section, which can be found on the documents page of the FAI website:

<http://www.fai.org/ipc-documents>

Only Advanced eligible competitors can become British Champions and/or be considered for sponsorship by the BPA. There are no restrictions on the nationality of guest competitors in the “Open” Championships

## **8. COMPETITION AIMS**

a) To determine the British National Champions in Wingsuit Performance and Acrobatics Flying.

b) To determine the British standings of the competing teams or individuals.

c) To establish selection guidelines for National Teams and Individuals to be invited to attend FAI Category 1 Events in 2019 / 2020.

d) To promote and develop wingsuit competition.

e) To allow participants to share and exchange experience, knowledge and information.

f) To improve judging methods and practices at National level.

## **9. EQUIPMENT**

Each individual is responsible for supplying their own equipment. This must consist of:

a) A serviceable main and reserve parachute, container and harness. This must be ‘freely friendly equipment (at CIs discretion). No extra weight permitted.

b) The use of an electronic Automatic Activation Device (AAD) and Audible Altimeter is mandatory.

c) A reserve packing data card and record of inspection if packed by a BPA packer.

d) Suitable clothing and footwear of a protective nature.

e) suitable mobile phone with DZ phone number programmed in.

N.B. All equipment and documents must comply with the requirements of the BPA Operations Manual.

## 10. COMPETITION AIRCRAFT

At time of writing the competition aircraft are expected to be:- 2 X Dornier G92 Twin Turbine (15 Jumpers per aircraft; left hand door)

## 11. COMPETITION OFFICIALS

Competition Officials will be notified during the competition Briefing.

## 12. TROPHIES

All competitors who won Trophies last year are asked to return them to the host venue by the beginning of May 2018.

## 13. CATERING FACILITIES

Full catering facilities will be available.

## 14. DRUG TESTING

The BPA fully supports Drug-Free Sport and is committed to preventing drug misuse in sport parachuting. Drug misuse is cheating and it may prejudice your safety and the safety of others. There is no place for the misuse of drugs in our sport. The BPA's Anti-Doping Policy and Rules are set out in **BPA Form 220** which is downloadable from the BPA website and available on request from the BPA Office. **ANY COMPETITOR** may be required to take a random drugs test. Refusal to provide a urine sample for analysis will result in disqualification. Many medications that you may need to take for common medical conditions, such as asthma or hay fever, may contain Prohibited Substances. It is vital that you do not accidentally take a prohibited substance, the consequences are the same as if you were doping. Getting it from a doctor on prescription is no defence!

For further information, please see the anti-doping page of the BPA website <http://www.bpa.org.uk/competition/drug-free-sport> which has links to the FAI and World Anti-Doping Agency (WADA) websites, where you can find up-to-date information about the prohibited list of substances and therapeutic use exemptions (see below).

Each competitor is **STRICTLY LIABLE**- this means that it is your own personal responsibility as a competitor to ensure you comply fully with this policy. A positive test result means disqualification for the whole team, a loss of any sponsorship, and a ban for the individual. BPA Form 220 sets out the procedure to be followed in the event of a positive test. The test is concerned with whether a prohibited substance is present in the body, not how or why it got there.

The Therapeutic Use Exemption (TUE) application process gives competitors a means of attaining approval to use a prescribed Prohibited Substance or Method for the treatment of a legitimate medical condition. This process is in place to protect the rights of competitors to compete on a level playing field.

Any competitor with a TUE must attach a copy to the competition entry form, and must also file a copy with the BPA Office before he or she competes. TUE forms may be downloaded from the anti-doping section of the FAI website:

[http://www.fai.org/index.php?option=com\\_content&view=article&id=34701:cimp-therapeutic-use-exemptions-tues&catid=343:cimp&Itemid=1051](http://www.fai.org/index.php?option=com_content&view=article&id=34701:cimp-therapeutic-use-exemptions-tues&catid=343:cimp&Itemid=1051)

## **15. PRIZE GIVING**

Prize giving will begin as soon as the host Drop Zone can arrange after the event has been completed and once any dignitaries who will be involved in the presentation are available.

In the Open event, only a gold medal may be awarded. The Open gold medal will, however, be awarded only if the winner is ineligible for the British Nationals *AND* has won the event in its entirety.

## **16. LICENCE TO USE IMAGES**

In entering this competition, competitors agree to grant the BPA Ltd a royalty-free non-exclusive licence to use any video or other images submitted to the competition for training and judging purposes.

## **17. RULES**

Technical Competition Rules for this event will follow the FAI IPC COMPETITION RULES WINGSUIT FLYING 2018 EDITION – ATTACHED IN APPENDIX 1 WITH THIS DOCUMENT.

Adaptation has been made for the BPA Nation

# DEFINITIONS OF WORDS AND PHRASES

## PERFORMANCE EVENT

### **Competition window:**

A vertical 1000 meter window, starting at 3000 m (9843ft) Geometric Altitude and ending at 2000 m (6562ft) Geometric Altitude, in which the performance of the wingsuit flyer is evaluated. The first crossing of the upper window boundary starts the evaluation process, which is stopped at the first crossing of the lower window boundary.

### **Position logging device (PLD):**

A device used to record the real-time, three-dimensional (3D) position of the wingsuit flyer, which is mounted on the wingsuit flyer's body or equipment.

### **Spherical error probability (SEP):**

The horizontal and vertical accuracy specifications of a PLD expressed in terms of a sphere of given radius; for example, "real-time accuracy <10 meters SEP."

### **Flight Director:**

a person appointed by the Meet Director to act as in-flight liaison to coordinate jump runs and facilitate exits.

### **Geometric Altitude:**

The height, as measured by a Global Navigation Satellite System, optical methods or radar, above ground level. The ground level for the competition site will be determined by the Meet Director and will be made known at the pre-event competitors' meeting.

### **Designated Flight Path:**

the assigned ground track using a designated reference on the ground given to the competitor by the Meet Director.

## ACROBATIC EVENT

### **Compulsory routine:**

a routine composed of compulsory sequences chosen at random from Addendum B by the Chief Judge.

### **Free routine – Advanced class only:**

a routine composed of maneuvers chosen entirely by the Team.

### **Grips**

- 1) A grip: a recognizable stationary contact, performed in a controlled manner, of the hand(s) of one Performer on a specified part of the body of the other Performer.
- 2) A hand grip consists of a handhold on the hand or wrist. The grip must be on or below the wrist.
- 3) A grip on the surface of any wingsuit without also achieving stationary contact on a specified part of the body as defined in 1), 2), and 3) above is specifically excluded from the definition of a grip.

**Maneuver:**

a change in body position or a rotation around one or more of the three (3) body axes or a static pose

**Normal Flight:**

The performer is in a belly-to-earth stable position

**Omission**

- 1 )a maneuver or grip missing from the drawn sequence or
- 2) there is no clear intent to perform the chosen maneuver or
- 3) an attempt at a grip is seen and another maneuver or grip is presented and there is an advantage to the team resulting from the substitution.

**Routine:**

a sequence of maneuvers performed during the working time.

**Team:**

an Acrobatic Wingsuit Flying Team is composed of two (2) Performers and a Videographer.

**Working time:**

the period of time during which Teams may perform a routine during a jump. Working time starts the instant any Team Member separates from the aircraft and terminates after an interval established in these rules.

## **THE PERFORMANCE EVENT**

**1.1 Objective**

1.1.1 The objective is to fly a single wingsuit in three separate tasks to demonstrate a combination of best lift (time task), best glide (distance task) and least drag (speed task).

1.1.2 Each round of the event is comprised of the three tasks.

1.1.3 Each task is performed on a separate flight.

**1.2 Tasks****1.2.1 Time Task:**

The wingsuit flyer is to fly with the slowest fall rate possible through the competition window. The result for this task will be the time taken to fly through the competition window, expressed in seconds, rounded to one decimal place.

**1.2.2 Distance Task:**

The wingsuit flyer is to fly as far as possible through the competition window. The result for this task will be the straight-line distance flown over the ground while in the competition window, expressed in meters, rounded to whole numbers.



### **1.2.3 Speed Task:**

The wingsuit flyer is to fly as fast as possible horizontally over the ground through the competition window. The result for this task will be the straight-line distance flown over the ground while in the competition window divided by the time spent in the competition window, expressed in meters per second, rounded to one decimal place.

### **1.3 Program**

1.3.1 A competition shall consist of two rounds, with three tasks in each round, for a total of six flights.

1.3.2 At least one round must be completed to determine rankings and declare winners

1.3.3 The minimum exit altitude is 12,000ft Geometric Altitude. The maximum exit altitude (at the start of jump run) is 12,500ft Geometric Altitude.

1.3.4 For meteorological and/or Air Traffic Control reasons only, and with the consent of the Chief Judge, the Meet Director may lower the exit altitude to 10,000ft Geometric Altitude and continue the competition. The Competition Window does not change; i.e. it stays 3000-2000m. If the exit altitude is lowered it must apply for a complete task for all competitors

1.3.5 The order of tasks shall be Distance, Speed, Time, unless exceptional circumstances require a variation.

### **1.4 Jump run and exit**

1.4.1 The jump run should be perpendicular to the wind line upwind of the designated landing area, which is established by the Meet Director and Chief Judge.

1.4.2 The starting order of the first task of jumping shall be in reverse order of the standings at the most recent BPA Nationals, Competitors that did not participate in the most recent BPA Nationals will jump at the beginning of the task with the order determined by random draw made by the Meet Director.

1.4.3 Jump Master must be placed aboard aircraft larger than eight slots to assist competitors with identification of ground reference points and landmarks.

Under no circumstances will such Jump Master direct a competitor to exit. That decision is solely the responsibility of the competitor.

1.4.4 The number of competitors to exit on a single pass of the aircraft and the spacing of those exits will be determined by the Meet Director. The horizontal spacing must be no less than 600m. This will be expressed to the competitors as time, in seconds, between exits. Immediately after exit, each competitor will turn directly towards his designated flight path.

1.4.5 Exit procedure: There are no limitations on the exit other than those imposed by the Chief Pilot for safety reasons. If a competitor exits in a manner deemed unsafe, the matter will be referred to the Safety Panel

### **1.5 Flight Pattern**

1.5.1 The first exit point on an aircraft pass will be determined by the Meet Director and Chief Judge. The aircraft pilot will signal the competitors when they are clear to exit. All the competitors will be briefed on the specific exit signals at the pre-event competitors' meeting.

1.5.2 The designated flight path of each competitor using a ground reference point will be determined by the Meet Director and will be given to that competitor using a detailed map or aerial photograph of the area.

1.5.3 A competitor must not cross another competitor's designated flight path, violation of this rule, as determined by the panel of judges, will result in a score of zero for that jump. This decision is not grounds for protest.

1.5.4 At no time from exit to opening shall competitor(s) come within 250m of any other competitor(s) horizontally or vertically. Violation of this rule, as determined by the panel of judges, will result in a score of zero for that jump. This decision is not grounds for protest.

1.5.5 Any violation of 1.5.3 or 1.5.4 that results in endangering other competitors shall be considered a serious endangerment and referred to the Safety Panel

## **1.6 GENERAL RULES**

1.6.1 The deployment altitude for each competitor will be pre-determined by the Meet Director and Chief Judge and must not exceed 5000ft AGL.

1.6.2 Any violation of 1.6.1 that results in endangering other competitors shall be considered a serious endangerment and referred to the Safety Panel

1.6.3 All jumps for each task of a round should be made from the same, or back-to-back loads, in order that competitors jump in similar winds.

## **1.7 Equipment**

1.7.1 Competitors shall not carry additional or removable weight on their body or equipment. They must be weighed by a BPA judge at the start of the competition wearing all their normal jump equipment to establish a baseline weight. The chief judge can conduct subsequent random weight checks, which may fluctuate from the baseline weight by +/- 2kg before requiring an inspection. If the addition or removal of weight is detected, the score for that jump will be zero. This decision shall not be grounds for protest.

1.7.2 Competitors shall not use propulsion systems. If any propulsion system is used, the score will be zero for that jump.

1.7.3 A competitor shall not wear any other electronic device or wires closer than 2.54cm from the official PLD as measured by the judging staff. However, a second identical PLD unit may be worn without regard to this separation requirement. If any such electronic device affects the PLD system, and the source of the interference is not obvious and beyond the reasonable control of the jumper, a rejump may be granted by the Chief Judge, without respect to 1.6.2.

1.7.4 Each competitor must wear a functioning audio altitude warning device on every jump. Failure to do so will result in a score of zero for that jump.

1.7.5 The same wingsuit, without any changes or modifications of its parts, must be used for all tasks in a round. In exceptional circumstances, a wingsuit may be changed between rounds with the consent of the Chief Judge, e.g., if the original suit gets damaged and cannot be made airworthy by the next round.

1.7.6 Wingsuits will be inspected and marked by a BPA Judge. Only marked suits may be used for the event. Using an unmarked suit will result in a score of zero for that jump.

1.7.7 Each competitor shall wear one PLD. The device will be attached on the jumper's helmet with the antenna having a clear view of the sky, located and positioned to the satisfaction of the Judge Chief.

1.7.7.1 For Competition purposed all pervious flight data from any PLD used for competition result purposes will need to be deleted prior to start of competition as well as the correct drop zone altitude as advised by meet director at competition brief be added correctly to PLD.

1.7.8 .The PLD will be turned on and off by a Judge or by the competitor if instructed to do so.

1.7.9 Immediately after landing, the competitor must hand in the PLD used on that jump to a Judge.

1.7.10 If the PLD malfunctions, and in the opinion of a Judge the malfunction was not caused by action or interference by the competitor, then the competitor will be given the option of making a rejump or receiving a score of zero for that jump.

1.7.11 Performance wingsuit classification (wingsuit size not wingsuit experience)

- Rookie – Armwing not below hips, legwing not below feet
- Intermediate – Armwing not below knees, leg wing not below feet
- Advanced – Everything else

(<https://ppc.paralog.net/suits.php>)

## **1.8 Position Logging Device (PLD)**

1.8.1 The PLD must record real-time three-dimensional (3D) data with a resolution of at least 5Hz and a position accuracy (SEP) of less than 10 meters.

1.8.2 The PLD must not require any action by the competitor in order for it to function, and it must activate its recording function automatically.

1.8.3The data recorded by the PLD must be downloaded and saved as soon as possible after the competitor has handed in the devices, and before the PLD is used again or returned to the competitor.

## **1.9 Determination of the Winners**

1.9.1 Each task in each round will be scored based on the top score of the task performed in that round. The top result will be scored 100%. The other results will be scored as a percentage of the top score.

1.9.2 All rounds for each task will be averaged for each competitor for an intermediate result of the task.

1.9.3 The three intermediate results for each task for each competitor are added and rounded to one decimal place to give the total result for the competitor.

1.9.4 The total result for the competitor determines the ranking.

1.9.4.1 In the event of a tie in the first three places, the following tie-break rules apply:

1.9.4.2 A tie-break jump will be made. The task shall be drawn at random by the Chief Judge.

1.9.4.3 If the tie cannot be broken, the competitors concerned shall be declared co-medalists.

1.9.4.4 All other ties in the standings shall be ranked equally.



## **THE ACROBATIC EVENT**

### **2.1 Objective**

2.1.1 The objective is for a team to perform a sequence of maneuvers (compulsory or free routine) in wingsuit flight.

2.1.2 There is no distinction as to gender.

### **2.2.1 Program – Advanced Class**

2.2.1.1 The competition will consist of seven rounds – five initial rounds followed by two final rounds. The minimum number of rounds for a valid competition will be one (1) round.

2.2.1.2 The seven (7) rounds shall consist of:

- Four (4) Compulsory Routine rounds
- Three (3) Free Routine rounds

2.2.1.3 The order of the routines shall be five (5) initial rounds F-C-C-F-C and two (2) final rounds C- F (C = compulsory; F = free).

2.2.1.4 The five (5) initial rounds will be used as the selection rounds for the final two (2) rounds. If all five rounds are not completed at the stated starting time for the final rounds, the final rounds will start based on the standings from the completed rounds.

2.2.1.5 The top eight (8) teams will jump in the final rounds. The drawn compulsory sequence and order of routines remain unchanged for the final rounds.

2.2.1.6 If two (2) or more teams have equal scores for entry into the final rounds the following procedure for selection into the finals will be applied:

2.2.1.6.1 the best score, then the second best score, of any completed free rounds.

2.2.1.6.2 the best score, then the second best score, of any completed compulsory rounds.

2.2.1.7 Rounds will consist of Sequence A,B,C,D,E,F,G,H,I,J,K

### **2.2.2 Program – Intermediate Class**

2.2.2.1 The competition will consist of seven rounds – five initial rounds followed by two final rounds. The minimum number of rounds for a valid competition will be one (1) round.

2.2.2.2 The order of the routines shall be five (5) initial rounds C-C-C-C-C and two (2) final rounds C- C (C = compulsory).

2.2.2.3 The five (5) initial rounds will be used as the selection rounds for the final two (2) rounds. If all five rounds are not completed at the stated starting time for the final rounds, the final rounds will start based on the standings from the completed rounds.

2.2.2.4 The top eight (8) teams will jump in the final rounds. The drawn compulsory sequence and order of routines remain unchanged for the final rounds.

2.2.2.5 If two (2) or more teams have equal scores for entry into the final rounds the following procedure for selection into the finals will be applied:

2.2.2.6 Rounds will consist of Sequence A,B,C,G

## **2.3 Exit Altitude and Working Time**

2.3.1 Unless otherwise specified in this section, the maximum exit altitude is 12,500ft AGL.

2.3.2 Unless otherwise specified in this section, the working time is 65 seconds.

2.3.3 For meteorological and/or Air Traffic Control reasons only, and with the consent of the Chief Judge, the Meet Director may lower the exit altitude to 10,000 ft. AGL with a working time of no less than 55 seconds and continue the competition. However, if the exit altitude is lowered it must apply for a complete task of a round for all competitors.

## **2.4 General Rules**

2.4.1 The deployment altitude for each team will be pre-determined by the Meet Director and Chief Judge in order to maximize team separation and may not exceed 5000ft AGL.

2.4.2 Equipment: competitors must jump the same model wingsuit throughout the event.

2.4.3 Competitors may change their role in the team from jump to jump; however, they may only perform one role (Performer A, Performer B, Videographer) during a jump

2.4.4. The performer (defined as Performer A, Performer B) who executes the first maneuver in each compulsory routine is defined as Performer A; this establishes the performer's role in the sequences (described in Addendum B) for the remainder of the routine

2.4.5 The starting order of the first round of jumping shall be in reverse order of the standings at the most recent BPA Nationals. Teams that did not participate in the most recent BPA Nationals will jump at the beginning of the round with the order determined by random draw made by the Meet Director.

2.4.6 Refusal to jump: a team may choose to abort a jump for any pertinent reason and may descend with the aircraft. If a jump-run is aborted and the Meet Director decides the reason is pertinent, the jump must then be made at the earliest opportunity as determined by the Meet Director.

## **2.5 Compulsory Routines**

2.5.1 The Compulsory Routines consist of two (2) Compulsory Sequences as described in Addendum B.

2.5.2 Compulsory sequences may be repeated until the end of working time.

2.5.3 The Compulsory Sequences to be used on each jump are determined via a random draw

2.5.4 The draw of all compulsory round sequences will be done publicly and supervised by the Chief Judge. Teams will be given not less than two hours' knowledge of the results of the draw before the competition starts.

2.5.5 Sequences shown in the appropriate annex will be singularly placed in one container. Individual withdrawal from the container, (without replacement), will determine the sequences to be jumped in each round. A sequence, once drawn, will be put aside and may not be used again. Upon exhaustion of the pool, if the draw is not complete, all sequences will be returned to the initial pool and the draw

continues.4.5.6 The order of the compulsory sequences is determined by the order in which they are drawn.

## **2.6 Free Routines - Advanced Class only**

2.6.1 The content of the Free Routine(s) is chosen entirely by the Team and may or may not include grips.

2.6.2 The Team may perform the same Free Routine in each Free Round.

2.6.3 Teams are encouraged to deliver a description of their Free Routine(s) to the Chief Judge before the start of the competition, using a standard form provided by the Chief Judge. Not providing this information shall not influence the team's score. Deviation from the described Free Routine shall not influence the scoring.

## **2.7 Air-to-air video recording**

2.7.1 For the purpose of these rules, "air-to-air video equipment" shall consist of the complete video system used to record the evidence of the team's performance, including camera(s), recording media, cables and battery. The air-to-air video equipment must be able to deliver a High Definition (HD 1080i / 1080p) digital signal through a compatible video connection approved by the Video Controller.

2.7.2 The videographer is responsible for assuring the compatibility of the air-to-air video equipment with the scoring system.

2.7.3 The camera must be fixed by a static mount to the helmet. No roll, pitch or yaw movements of the camera, mechanical and/or digital zoom adjustment, or any digital effects (excluding "steady shot" or other image stabilization feature) may be used during competition jumps. Failure to meet any of these requirements will result in a score of zero (0) points.

2.7.4 A Video Controller will be appointed by the Chief Judge prior to the start of the judges' conference. The Video Controller may inspect a team's air-to-air video equipment to verify that it meets the performance requirements. Inspections may be made at any time during the competition which does not interfere with a team's performance, as determined by the Event Judge. If any air-to-air video equipment does not meet the performance requirements as determined by the Video Controller, this equipment will be deemed to be unusable for the competition.

2.7.5 Video Review Panel (VRP). A VRP will be established prior to the start of the official training jumps, consisting of the Chief Judge, the President of the Jury, and the FAI Controller. The VRP may enlist the help of the Video Controller. Decisions rendered by the VRP shall be final and shall not be subject to protest or review by the Jury.

2.7.6 The Organizer shall provide the teams with a way of identification showing the team and round number, to be recorded by the videographer just before exit.

2.7.7 The team's video recording must continue from team/round identification through the exit and the jump without interruption. Failure to meet this requirement will result in a score of zero (0) points.

2.7.8 The videographer shall provide the video evidence required to judge each jump and to show the team's performance to relevant third parties. It is the responsibility of the videographer to show the start of working time.

2.7.9 As soon as possible after each jump, the videographer must deliver the air-to-air video equipment for dubbing at the designated station. The video evidence must remain available for viewing or dubbing until all scores are posted as final.

## **2.8 Rejumps**

2.8.1 In a situation where the video evidence is considered insufficient for judging by a majority of the judging panel, the air-to-air video equipment will be handed directly to the VRP for assessment and a determination as follows:

2.8.2 If the VRP determines that there has been an intentional abuse of the rules by the team, no rejump will be granted and the team's score for that jump will be zero (0).

2.8.3 In the case the VRP determines the insufficiency of the video evidence is due to a factor that could be controlled by the team, no rejump will be granted and the team will receive a score based on the video evidence available.

2.8.4 If the VRP determines the insufficiency of the video evidence is due to weather conditions or a cause beyond the control of the team, a rejump will be given.

2.8.5 Contact or other means of inference between performer(s) and/or the videographer in a team shall not be grounds for a rejump.

2.8.6 Problems with a competitor's equipment (excluding air-to-air video equipment) shall not be grounds for a rejump.

2.8.7 Adverse weather conditions during a jump are not grounds for protest. However, in circumstances not covered by 2.8.1, a rejump may be granted due to adverse weather conditions, at the discretion of the Chief Judge.

## **2.9 Determination of Winners**

2.9.1 The winners (1st, 2nd and 3rd) are the teams with the three highest total scores for all completed rounds.

2.9.2 If two (2) or more teams have equal scores, then if time permits, the first three (3) places will be determined by a tie-break Free Round. If a tie still exists, the procedure described in paragraph 4.2.6 above will apply until a clear placing is determined.

# **JUDGING & SCORING**

## **3.1 Performance Event**

3.1.1 Scoring will be supervised by at least two BPA Wingsuit Judges.

## **3.2 Acrobatic Event**

3.2.1 Once any team member has left the aircraft, the jump shall be evaluated and scored.

3.2.2 The evaluation of each sequence will take place during the full working time but may cease before the end of working time if the team abandons the performance requirements for the required routine

3.2.3 Judging procedures:

3.2.3.1 The jumps shall be judged using the video evidence as provided by the videographer.



3.2.3.2 A panel consisting of five (5) BPA approved judges will evaluate each team's routine. If five (5) BPA approved judges are not available, the minimum judging panel can consist of three (3) BPA approved judges or in extreme circumstances with the meet director's approval two (2) BPA approved judges and one (1) BPA trainee judge. Where possible, a complete round shall be judged by the same panel.

3.2.3.3 Judges may view the jump a maximum of three (3) times. A fourth viewing may be allowed at the discretion of the Event Judge.

3.2.4 All viewings must be at normal speed.

3.2.5 The judges will use the electronic scoring system to record the evaluation of the performance. At the end of working time, freeze frame will be applied on each viewing, based on the timing taken from the first viewing only. The judges may correct their evaluation record after the jump has been judged. Corrections to the evaluation record can only be made before the Chief Judge signs the score sheet.

3.2.6 Scoring Compulsory Routines:

3.2.6.1 The Routine is evaluated using three (3) criteria: style, number of grips and camerawork.

3.2.6.2 Judges will give the style and camerawork a point score between zero and ten (between 0 and 10, up to one decimal point), based on the guidelines in Addendum C.

3.2.6.3 For each maneuver omission 1.5 points will be deducted from the style point score otherwise given.

3.2.6.4 Judges give one point for each scoring grip performed in the routine within the working time of each round. Teams may continue scoring by continually repeating the sequences.

3.2.6.5 For each grip omission one (1) point will be deducted from the total determined in 3.2.6.4. If an infringement in the scoring formation of a maneuver is carried into to the next grip this will be considered as one infringement only, provided that the intent of the maneuver requirements for the next formation is clearly presented.

3.2.6.5.1 A majority of Judges must agree in the evaluation in order to:

- credit the scoring grips, or
- assign an omission, or
- determine an NV situation.

3.2.6.5.2 The score given for grips shall be in whole integers only.

3.2.6.6 The minimum score for any of the criteria is zero points.

3.2.7 Scoring Free Routines:

3.2.7.1 The Routine is evaluated using on three (3) criteria: style, dive plan and camerawork.

3.2.7.2 Judges will give each of the above three criteria a score from zero to ten (between 0 and 10, up to one decimal point), based on the guidelines in Addendum C.

3.2.8 Score Calculation:

3.2.8.1 The team's score for a round for each of the criteria in 3.2.6 and 3.2.7 is calculated by discarding the high and low scores and averaging the three remaining scores, rounded to one decimal place. Unless a panel of three (3) judges are used, calculation will made by averaging the scores from the three (3) BPA judges.

3.2.8.2 The team's score (calculated in 3.2.8.1) for grips (compulsories), style (all rounds), dive plan (free round) and camera (all rounds) will be weighted 0% to 100% for each criteria between all teams for that round, the highest score defining 100%

(100), and a no-score being 0% (0). A total score for a round is then calculated by adding the three weighted percentage scores for that round.

3.2.8.3 The team's final score for the event is the sum of the total scores from all completed rounds.

3.2.9 All scores for each judge will be published.

3.3 Other Judging responsibilities

3.3.1 One or more individuals, supervised by the Chief Judge (or trainees under the supervision of the Chief of Judge Training) may support the judges in equipment, device and data management.

3.3.2 One or more qualified individuals, supervised by the Chief Judge, must observe the competitors during their descent and on opening. The observer must check for any conditions or incidents that might constitute grounds for a re-jump and/or disqualification for safety reasons. A written record must be made of any unusual observations or incidents.

3.3.3 The Chief Judge and/or Meet Director may interrupt the event if they determine the meteorological conditions are not safe for the conduct of the event. This decision is not grounds for a protest.

# **Addendum - A**

## **Definitions**

### **Basic rotational actions**

#### **A-1 Barrel Roll**

A barrel roll is a 360 degree rotation about the body head-toe axis, when that axis is aligned with the direction of flight. The rotation of a barrel roll may be performed in either direction (left or right).

#### **A-2 Front Loop**

A front loop is a loop where the rotation is initiated about the body left-right axis with the torso rotating forwards

## **Addendum – B**

### Acrobatic Wingsuit Flying Compulsory Sequences

- Compulsory sequences may be broken down into separate elements during execution, but will result in lower scoring on style.
- The last position of each Compulsory sequence leads into the beginning position of the next Compulsory sequence, and is counted as one grip.
- Performers are defined as Performer A and B.
- Online compulsory sequences with animations may be found at <http://www.wingsuitcompetition.com/divepool.php>

### **Sequence A: Up and Over**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A transitions over Performer B to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B transitions over Performer A to the other side.
- Performers take a hand grip in normal flight.

### **Sequence B: Rock and Roll**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A performs a barrel roll.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B performs a barrel roll.
- Performers take a hand grip in normal flight.

### **Sequence C: Revolutions**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A transitions over Performer B to the other side and then transitions back under Performer B to the original starting position.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B transitions over Performer A to the other side and then transitions back under Performer A to the original starting position.
- Performers take a hand grip in normal flight.

### **Sequence D: Roll Over**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A performs a barrel roll over Performer B to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B performs a barrel roll over Performer A to the other side.
- Performers take a hand grip in normal flight.

### **Sequence E: Fruity Loops**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A performs a front loop.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B performs a front loop.
- Performers take a hand grip in normal flight.

### **Sequence F: Duck and Roll**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A performs a barrel roll under Performer B to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B performs a barrel roll under Performer A to the other side.
- Performers take a hand grip in normal flight.

### **Sequence G: Déjà vu**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A transitions over Performer B to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer A transitions over Performer B back to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B transitions over Performer A to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B transitions over Performer A back to the other side.
- Performers take a hand grip in normal flight.

## **Sequence H: Yin Yang**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A transitions to inverted flight.
- Performers take a hand grip in mixed orientation.
- Performers release the grip and Performer A transitions to normal flight .
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B transitions to inverted flight.
- Performers take a hand grip in mixed orientation.
- Performers release the grip and Performer B transitions to normal flight.
- Performers take a hand grip in normal flight.

## **Sequence I: Back to Back**

- Performers are in normal flight with a hand grip.
- Performers release the grip and both transition to inverted flight.
- Performers take a hand grip in inverted flight.
- Performers release the grip and both transition to normal flight.
- Performers take a hand grip in normal flight.

## **Sequence J: Pancakes**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A transitions to inverted flight over Performer B to the other side.
- Performers take a hand grip in mixed orientation.
- Performers release the grip and Performer A transitions back to normal flight over Performer B to the other side.
- Performers take a hand grip in normal flight.
- Performers release the grip and Performer B transitions to inverted flight over Performer A to the other side.
- Performers take a hand grip in mixed orientation.
- Performers release the grip and Performer B transitions to normal flight over Performer A to the other side.
- Performers take a hand grip in normal flight

## **Sequence K: Reversed Pancakes**

- Performers are in normal flight with a hand grip.
- Performers release the grip and Performer A transitions to inverted flight under Performer B to the other side.
- Performers take a hand grip in mixed orientation.
- Performers release the grip and Performer A transitions to normal flight under Performer B to the other side.
- Performers take a hand grip in normal flight .
- Performers release the grip and Performer B transitions to inverted flight under Performer A to the other side.
- Performers take a hand grip in mixed orientation.
- Performers release the grip and Performer B transitions to normal flight under Performer A to the other side.
- Performers take a hand grip in normal flight .

# **Addendum – C**

## **Acrobatic Wingsuit Flying Judging Criteria**

### **C-1 Scoring Grips**

Grip scoring is only required for the Compulsory Routines

- Each completed grip at the start of, during, and between each Compulsory sequence will be added up to create a total number of grips.
  - If multiple grips are taken during and between each Compulsory sequence, only one grip will be counted.
  - A grip that cannot be seen, or is considered not to meet the definition in Section 2 by a majority of the Judges will not be included in the total number of grips
- Compulsory Routines have to be made in the correct sequence. A Compulsory sequence omitted in the sequence will result in one point being subtracted from the total number of grips for that routine. This may not be less than zero.

### **C-2 Scoring Style**

Judges give a score for the Team (between 0 and 10, up to one decimal point) for Presentation and for each of the four (4) Compulsory Rounds and three (3) Free Rounds, using the following guidelines:

10 points - Maneuver is performed flawlessly with no noticeable mistakes.

8 points - Maneuver is performed with some small mistakes.

5 points - Maneuver is performed with several medium mistakes. 3 points - Maneuver is performed with several major mistakes.

0 points – Maneuvers are not performed or identifiable

Examples of style:

- Body position: the performers' posture should present clean and defined arm and leg position ideal for flight.
- Grips: each grip is made smooth and fully in control.
- Control: all movements made by the performers are precise and deliberate, without a lot of 'nervous' movement in the arms, legs and body or heading.
- Leveling: the performer is adjusting fall rate and level accordingly during each maneuver, allowing the other pilot to remain static. The less changes the static performer has to make to accommodate the active performer making a maneuver, the higher the score.
- Proximity: the performers stay close together, never moving more than one body distance apart.
- Transitions: more complex maneuvers are made according to the intended figures, rather than broken down into two or more simpler elements.

#### **Small mistake examples:**

- Maneuver: finish slightly off heading, slight wobble, etc.
- Maneuver: arms bent down or forward, knees bent
- Maneuver: grips made resulting in tension and movement



**Medium mistake examples:**

- Maneuver: significantly off heading, wobble, not enough rotation, etc.
- Maneuver: grips made with considerable force, not fully in control

**Major mistake examples:**

- Maneuver: completely missing required elements of performed so poorly that maneuver is barely recognizable.
- Not generating forward movement (using aerodynamic properties of the Wingsuit).
- Maneuver: grips made with considerable force, resulting in out of control flying on one or both Performers.

## C-3 Scoring Camera

Judges give a score for camera work as a sum of two parts: Quality (between 0 and 7, up to one decimal point); and Progressive Work (between 0 and 3, up to one decimal point) for each of the four (4) Compulsory Sequences and three (3) Free Rounds, using the following guidelines:

### Quality

7 points - Camerawork is flawless with no noticeable mistakes and creative flying

6 points - Camerawork has some small mistakes.

4 points - Camerawork has several medium mistakes. 2 points - Camerawork has with several major mistakes.

0 points - Camerawork show no Performer Routines.

### Progressive Work

3 points – Creative flying with 2 or more different progressive successful maneuvers

2 points - Creative flying with 2 or more same progressive successful maneuvers

1 point - Creative flying with 1 progressive successful maneuver

0 points - No progressive maneuvers and no intention

Examples for good camerawork video quality:

- Video is smooth and does not bounce around.
- Performers occupy most of the video and remain centered
- Cameraman remains within a consistent distance of the Performers.
- Utilizes advanced flying techniques (i.e. Carving around the performers, back flying) resulting in creative angles without loss of framing or proximity.

Examples for Progressive Work:

- BackflyingCarving
- Multi-axis views

### Small mistake examples:

- Momentary loss of framing or focus, occasional minor distance errors, etc.

### Medium mistake examples:

- Momentary loss of image, framing, focus, or distance errors for about 20 % or more of the Compulsory Sequence, etc.

### Major mistake examples:

- Contact with one or both performers
- Loss of control, resulting in in lost framing of the performers or no video
- 50% or more of Compulsory Routine or Free Routine cannot be judged. .

## C-4 Scoring Dive Plan

Dive plan scoring is only required for the free routine rounds. Judges give the following judging criteria a score, between 0 and 10 expressed as a number up to one decimal point, taking into account the following guidelines:

Technical:

- **Difficulty:** The degree of difficulty of all set sequences and transitions in the routine.
- **Flying Skills:** Ability to maneuver smoothly or fly in any orientation (vertically, horizontally, back flying, etc.).
- **Precision, control:** Ability of the Team to demonstrate body control and smoothness of transitions.
- **Team Work:** The ability to for the team to perform movements together to create a unified performance.

### **Examples for Technical:**

- The two (2) Performers maintain proper proximity throughout each sequence.
- All flying surfaces and/or flight angles are used (i.e. belly to earth and back flying, steeper angles)
- A constant interaction and teamwork is displayed.
- The routine shows a wide variety of set sequences that vary by complexity.
- Team separation after each set sequence.
- Grip complexity, if present.

### **Presentation:**

- **Visual Excitement:** Routine should hold the viewer's attention throughout, dynamic variety, entertaining without being unnecessary.
- **Originality:** Creative choreography in variety.
- **Team Work:** Routines that demonstrate combined skills of all Team Members.
- Grips performed in a controlled manner.

### **Examples for Presentation:**

- The routine has a defining beginning and end.
- Working time is utilized to the fullest extent possible.
- The routine has a high level of creativity that contains new maneuvers, and flows from one set sequence to the next.
- The routine is enjoyable and aesthetically pleasing to watch.