



AGENDA ITEM 15.4. Report of the CIVA Glider Aerobatics Sub-Committee

CIVA Glider Aerobatics Subcommittee

Meeting 16 July 2013, Oripää, Finland

Report by the Chairman of the GASC

The meeting was convened on 1400 local time in the briefing facility at Oripää airfield, Finland.

The following members of the GASC were present:

Madelyne Delcroix
Myako Kanao
Christopher Cain
Pekka Havbrandt
Philippe Kuchler
Jerzy Makula
Premysl Vávra
Jyrki Viitasaari
Manfred Echter; chairman
Missing:

Excused:

Karl Berger
Klein Gilhousen
Erik Houtman

Did not receive any correspondence due to missing or faulty address:

Ferenc Toth

Reason unknown:

Georgy Kaminskiy

Observers:

L.G. Arvidsson
Piotr Haberland
Vladimir Machula
Benoît Merieau

Number of votes: 9; Majority: 5

Agenda Items

1.

- a) CZE Proposal #1 Awards and Champion Titles

The proposal is in conflict with Sporting Code, General Section, Para 3.1.6 which states that the winner of a World Championship is awarded the title of World Champion.

The proposal cannot be supported.

- b) USA Proposal #8 World Champion Titles and Medals

Rejected (pro 4, con 3, abs 2)

- c) SPG Proposal #2 Use of the term World Champion

Same objection as a) above.

The proposal cannot be supported.

2.

Polish Proposals

- a) Ban of Swift glider for Advanced

Proposal was modified to put it into effect as of 1 January 2016.

Agreed (pro 6, con 3)

- b) Mandatory upgrade to UNL for top 10 competitors in WAGAC

Withdrawn

- c) Introduction of 2nd class World Champion title for ADV

Withdrawn

3.

SWE Proposal Introduction of handicap (index) system for aerobatic glider types

Rejected (pro 3, con 3, abs 3)

4.

- a) FRA Proposal #8

- Procedure for selecting Unknown Figures
- Procedure for composing Unknown Sequences
- Selecting figures for Free Unknown

Agreed (pro 8, abs 1)

- b) GER Proposal #9: Procedure for selecting Unknown Figures

Withdrawn

- c) FRA Proposal #9: Ranking of Unknown Sequences by Teams

Rejected (pro 3, con 3, abs 3)

- d) FRA Proposal #10: Protest period for Unknown Sequences

Agreed (pro 8, abs 1)

Section 4.3.4 as modified by FRA Proposals #8 and #10:

4.3.4.1 For Programmes 3 through 6 a total of 28 figures will be chosen from Section 9. A representative of every NAC which has a pilot (or pilots) competing (except as *Hors Concours*) may submit one figure. The order in which teams may select figures will be determined by drawing of lots.

If there are more than 28 teams, 28 representatives will be determined by secret drawing of lots to select one figure each. If there are less than 28 teams, their representatives will first select one figure. Then, lots will be drawn a second, third and fourth time if necessary, in order to determine which teams will choose a second, third and eventually fourth figure, until a total of 28 is reached.

4.3.4.2 Four figures maximum can be chosen in each of Families 2, 5, 6, 9.9, 9.10 and 9.11/12.

- a) For Unlimited, the minimum acceptable K for each figure is 15.
- b) No figure may be selected with a K higher than 40 ("AG" 35).
- c) In the case of teams who select two or more figures, one must be a reversing figure and the sum of coefficients of the figures proposed by a NAC must not exceed:
 - 60 ("AG" 55) for 2 figures.
 - 80 ("AG" 70) for 3 figures
 - 95 ("AG" 85) for 4 figures
- d) The same catalogue number cannot be chosen twice except for Family 9 ("AG" Families 5, 6 and 9).

Paras 4.3.4.2 and 4.3.4.3 become 4.3.4.3 and 4.3.4.4 respectively.

4.3.4.5 Within two working hours from the completion of figure selection, the International Jury will publish the list of figures available for construction of Unknown Compulsory sequences (Programmes 3, 5 and 6).

Seven figures are set aside for Programme 4.

4.3.4.6 The teams may propose sequences for Programmes 3, 5 and 6 using seven (7) figures each from the list of officially approved figures submitted by the NACs. One figure each from Families 2, 5, 6, 9.9 or 9.10 should be included.

A maximum of two (2) additional figures selected from the Aresti System (Condensed) for Gliders, as currently amended by CIVA, may be added solely to aid in composition. These additional figures may contain repetitions despite rule 4.3.4.2 d)

The Contest Director will announce the deadline for submitting proposed sequences.

Proposals must contain complete pages of all three Forms A, B and C. Computer files must be submitted, using a CIVA-approved software (see 4.3.3.5). In sequence composition, figures may be used starting from one or the other axis. Nevertheless figures with their entry and exit on the same axis must maintain their construction as submitted, i.e. with the exit flight path in the entry direction or with the direction of flight reversed as originally drawn.

Sequences must have a minimum K of 175 ("AG" 130) and a maximum of 190 ("AG" 145).

This may be exceeded by 3 points to facilitate composing the sequences.

4.3.4.7 Unknown Compulsories (Programmes 3, 5 and 6)

- a) The International Jury will select one of the submitted sequences for use.

- b) The International Jury may alter the selected sequence, if necessary for safety reasons.
- c) Chief Delegates or their representatives may object to a sequence within one hour after publication for safety reasons only. In this case, the International Jury will modify the sequence in order to remove the objection without changing the figures selected according to rule 4.3.4.1.
If it is found that the sequence selected cannot be safely flown within the height available, the International Jury may delete one figure, consulting the Chief Delegate of the NAC which proposed this figure.
- d) Sequences, after having been approved by the Chief Delegates or their representatives, will be announced to competitors by the International Jury not later than 12 hours before the scheduled start of each programme.
- e) Figures which were flown in one of the previous Programmes are removed from the list and must not be used again.

4.3.4.8 The International Jury chooses seven (7) figures for Programme 4 (Free Unknown) from the list of figures selected according to rule 4.3.4.1. These figures will not appear on the list of figures available for construction of Unknown Compulsory sequences. The sum K of the seven figures should be between 170 and 190 ("AG" 130 to 150). Competitors will be given the list of figures not later than 24 hours before the deadline for submission of the Free Unknown sequences. Each competitor composes their own sequence for Programme 4 from these figures. No more than two (2) linking figures may be added. The K-factor of linking figures will be set at 5K each for two figures or 10K for a single figure.

Current paras 4.3.4.8 through 4.3.4.10 to be re-numbered accordingly.

5.

GER Proposal #10: Allowed Figures for Unknowns
Agreed (pro 8, abs 1)

6.

FRA Proposal #11: Minimum K for Known Programmes
Rejected (pro 1, con 8)

7.

GER Proposal #8: Free Programmes "AG"
Agreed (pro 8, abs 1)

8.

CZE Proposal #2: Electronic Height Measuring Devices

The proposal was thoroughly discussed in conjunction with CZE Prop. #4. The discussion laid open widespread doubts and reservations re. credibility of systems like the HMD which are crucial for the conduct of our championships. Technical characteristics of the hardware used and limitations of the data link system of the HMDs were addressed in particular. Most importantly: The PHMD, which is presently the only HMD system used, is totally under control of the Polish team. Its software was never laid open. Calibration, unlike with the HHMD and MHMD, is done exclusively by the Poles and cannot be verified by CIVA contest officials. This situation leads to rumors and suspicions and damages the credibility of our judging.

The CZE representative agreed to modify the wording of his proposal as necessary to make it clear that the HMD can only be a reference without any binding effect and that final responsibility for accepting or rejecting HMD outputs rests with the Chief Judge.

Chairman GASC will submit an Urgent Proposal on use of HMDs to CIVA.

Agreed (pro 5, con 3, abs 1)

Modified Text of CZE Proposal #2:

Use of electronic Height Measuring Devices

The following modified text was agreed between the CZE Member in the GASC and the GASC Chairman.

5.2.1.1 A competitor flying a figure or part of a figure lower than 200 m (over datum) will receive 70 penalty points for this figure. A competitor flying in their programme lower than 100 m (over datum) will be disqualified for this flight (see 4.2.4.3)

- a) When an HMD is used, a penalty of 70 points is given if the first figure is started above 1200 m or this limit is exceeded in the course of the first figure. If the upper limit is exceeded during a subsequent figure, there will be no penalty. The start of a figure occurs when the aircraft departs from level flight for the first time or when a roll is started on a horizontal line.
- b) When an HMD is used, the Judges will mark all the figures regardless of the altitude and also note down any height infringements they observe. The excursions below 200 m will be recorded at the Chief Judge's position and penalty points will be assessed accordingly. 70 penalty points will be given for every figure during or before which the 200 m signal is received and confirmed to be correct.
In case of doubt, the official video should be checked for audible outputs from the HMD equipment in relation to aircraft flight path and/or attitude at the time of the HMD signal in order to determine whether the signal was received before or after the completion of a figure and thus whether a penalty should be given or not.
- c) The end of a figure occurs as soon as the aircraft completes the curved portion of the manoeuvre and enters horizontal or gliding flight, or as soon as the aircraft flies through the horizontal line between two figures. In rolls, the end of the rotation along the longitudinal axis is taken to be the end of the figure.
- d) In any case, the final decision whether a penalty should be given or not rests with the Chief Judge.
For detailed information on the various HMD systems and their use, see section 10.

Subsequent paragraphs to be re-numbered accordingly.

7.1.1.8 ... The video should also be used to determine whether the HMD signal was received before or after the completion of a figure and thus whether a low penalty is justified in accordance with paragraph 5.2.1.1 b).

10.3.1.2 The guaranteed overall tolerances of HMD systems are considerably smaller than the tolerances of the conventional altimeters used in gliders. Pilots must further understand that unlike mechanical altimeters, the electronic pressure sensor in the HMD is not influenced by rate of descent or climb. This means that whilst the mechanical altimeter displays a significant lag during rapid changes of altitude (always indicating low in a climb and high in a descent), the HMD will transmit its signal exactly at the pre-set height. Under certain conditions, however, there may be a short delay of typically 2-3 sec. before the ground equipment receives the signal due to the technical limitations of the data link system used.

10.4 Operating the HMDs

10.4.1.1 Whenever an HMD is in use, it will be the primary reference for the Chief Judge to verify compliance with height limits and for decisions on penalties or disqualifications due to height infringements. HMD audio signals are recorded together with the video.

10.4.1.2 A person assigned to the Chief Judge will monitor the HMD ground equipment and log every flight, to keep track of proper functioning of the device and record height infringements. When the MHMD or PHMD is in use, a computer should always be connected to the ground receiver in order to record the height data of all flights.

10.4.1.3 Calibration, installation, setting up, checking, and removal of the HMD onboard transmitters will be performed by members of the Technical Commission or persons specifically designated for this duty.

10.4.1.3 All participating gliders must have a mounting bracket for the onboard transmitter as specified in this Section. The pilot is responsible that the HMD transmitter is securely mounted inside the glider. Should the transmitter come loose during the flight due to improper mounting, this will not be accepted as a valid technical failure and a re-flight will not be allowed.

10.4.1.4 The towing height with HMD is always at least 50 m higher to ensure proper functioning of the HMD.

Delete entire section 10.5 and para 10.6.1.2. Re-number section 10.6 to 10.5.

9.

FRA Proposal #2: Direction of Flight

Proposed text is considered too complicated. If RSC agrees, then it will have to be adopted for gliders as well.

Not voted

10.

GBR Proposal #2 Downgrades for Lines between Half Rolls and Loops

Proposal is aimed at preserving Judges' RIs. If adopted, it would result in absurdly high marks for extremely long lines.

Rejected (pro 0, con 8, abs 1)

11.

a) GBR Proposal #3

b) USA Proposal #11

Selection Process for Known Sequences

Both proposals were thoroughly discussed and rejected unanimously.

Rationale:

Gliders are and will remain a minority in CIVA. A considerable number of NACs represented in CIVA have no or no current glider aerobatics activity. Consequently, many Delegates are lacking the expertise to select suitable sequences for gliders.

This is the reason why Knowns for gliders have always been selected by the GASC and these selections submitted to the plenary for approval.

It makes no sense whatsoever to change this procedure. The GASC members represent all the glider aerobatics expertise in CIVA. It is unclear where else the CIVA President can find persons with the necessary knowledge of glider aerobatics to be included as "glider experts" in any future KAWG.

If it is so desired, the GASC can always present the detailed reasons for their selection to the CIVA plenary.

Rejected (unanimous)

12.

GBR Proposal #4 Removal of Anonymity

Not applicable to gliders. No mention of starting lists in Part 2.

Not voted

13.

a) FRA Proposal #4

b) USA Proposal #7

c) GER Proposal #3

d) GER Proposal #2

Hors Concours (H/C) Pilots, non-NAC Pilots and Entries by

NACs

The proposals deal with problems which are applicable to both Power and Glider. GASC is not willing to develop special policy for gliders. RSC decision will be adopted for gliders.

Not voted

14.

USA Proposal #13 Free Programme Sequence Design Software

CD should not be asked to make this decision. Responsibility should remain in CIVA.

PDF should always be available to verify correctness of sequence drawings.



Rejected (pro 0, con 8, abs 1)

15.

USA Proposal #14 Jury Chairmanship

Not applicable. No change to current practise in gliders.

Not voted

16. Glider Known Sequences for 2014

The GASC proposes sequences "A" for UG and "B" for AG.

17. Place of WGAC/WAGAC 2014

Poland will prepare a bid for Olesnica (near the city of Wroclaw).

Czech Republic will bid Morawska Trebova for 2015 and may be ready to offer it as a fallback option for 2014.

Hungary also indicated its intention to bid for 2014; place not yet decided.

The meeting was closed on 1800 local time.

Signed:

Manfred Echter

Chairman GASC