

## AGENDA ITEM 8.2

### Report of the Chairman of the Glider Aerobatics Sub-Committee of CIVA



#### WGAC 2005

The WGAC 2005 was a successful smooth running championship completed in good weather conditions enabling the completion of all six programmes without any protest, see "Report by the Chairman of the International Jury" and the other reports. In addition to the report of a successful contest, I want to mention, that there was a great deal of bureaucracy at customs to bring the trailers and gliders into Russia. On the other hand the support and the hospitality (except the daily rising prices in the airfield restaurant) at the spot was great and will make the WGAC 2005 memorable to all. For more information see the organizers website (<http://www.wgac2005.org/results.htm>) and also the websites of some competing teams which a lot of pictures.

#### Sub-Committee meeting in Drakino

With e-mail from 5<sup>th</sup> June 2005 I invited the members of the Glider Aerobatics Sub-Committee (GASC) of CIVA to a Sub-Committee meeting during the WGAC in Drakino. With the same email the proposals for 2006 for glider aerobatics were announced. The meeting started at Saturday, 23<sup>rd</sup> July, and took place between 23<sup>rd</sup> July and 30<sup>th</sup> July in four sessions (23<sup>th</sup>, 25<sup>th</sup>, 27<sup>th</sup>, 30<sup>th</sup> July). The meetings were attended by: Karl Berger (chairman, AUT); Premysl Vavra (CZE), Madelyne Delcroix (FRA), Manfred Echter (GER), Ludwig Fuß (GER), Bela Guraly (HUN), Jerzy Makula (POL), Helmut Stas (POL), Georgi Kaminski (RUS), Dick Happs/Judi Jones (UK), Marti Kalko (USA), and Luca Sartori (ITA), Dietmar Poll (AUT).

At first it was voted on the Known Compulsory programme (Agenda # 1) and the French proposal was chosen by a majority of seven votes. Agenda # 2 (Berger proposal 1.4.2.2.c) was agreed unanimously. Then all German Proposals (Agenda # 4, 5, and 6) were discussed very carefully, and also the Czech proposal (Agenda # 7). Finally Agenda # 3 (Mady/Sandor proposal), B (Safety), was discussed, A (Energy) was withdrawn.

Discussion/information took also place on Agenda # 8 and # 9 (The new "Fair Play System", and New Appendix 2 - CIVA), and also about the arising matters during this championship, the issue of soft zeros and hard zeros. The Teams from Austria, Poland, and Hungary submitted written proposals to the chairman of the International Jury, to cancel this "hard/soft zero system" and return to the old zeroing system. These proposals were forwarded by me to CIVA president Mike Heuer by telefax.

#### Other Business:

**Charles Kalko Trophy:** Mrs. Marti Kalko has donated a new trophy, the Charles G. Kalko Trophy. This Trophy is presented in memory of Dr. Charles G. Kalko to the winner and



champion of the total unknown programs. One of Charles Kalko's greatest loves was the flying of aerobatics having flown every world glider competitions since 1985. He was Bronze Medal winner with the US Team at WGAC 1991. This presentation of an "Unknown Programme Champion" will be perpetuated at all future World Glider Aerobatics Championships in memory of Charles Kalko and his great and lasting friendships. First winner of this trophy was Georgi Kaminski, the trophy was presented to him at the victory ceremony at WGAC 2005 in Drakino on behalf of Mrs. Kalko by CIVA Vice President of Glider Aerobatics, Karl Berger. (Mrs. Kalko had unfortunately to leave before the ceremony took place.)

It is proposed that the Charles Kalko Trophy be made permanent. Future trophies, of improved design, will be provided by Mrs. Kalko.

Dietmar Poll introduced a new project from Günter Meierhofer, Designer of the MGT PM234 Altitude Measuring Device, to design a "**local positioning system for the aerobatics competition**" (PM-235 LPS). The chairman advised Dietmar Poll, to contact CIVA President Mike Heuer and to present this to CIVA at the CIVA meeting in November.

### **Proposals to CIVA**

- a) CIVA **Glider Known** Compulsory programme 2006: **The GASC ask CIVA for approval** (see above)
- b) The decisions which were made by voting in these GASC meetings were summarized in a special paper (attached): "**Proposals of the Glider Aerobatics Subcommittee to the CIVA Plenary.**" This paper was distributed already in Drakino to all which attended the GASC meetings for checking and was also submitted by e-mail to all GASC members. If there is no negative response, these proposals will be the official proposals from the GASC to CIVA for the CIVA meeting in November, and **CIVA will be asked for approval.**
- c) Remark: "Urgent" proposals from Austrian, Polish, and Hungarian Team regarding soft and hard zeros were forwarded to CIVA President Mike Heuer (see above).

## Proposals of the Glider Aerobatics Subcommittee to the CIVA Plenary

During its meeting at Drakino, Russia, on the occasion of the 11. WGAC in July 2005, the Glider Aerobatics Subcommittee decided to submit the following proposals to CIVA for approval.

### A. Changes to CIVA Regulations, Part 2

#### 1. Unknown Compulsory Programmes

**Current Programme 6 (4<sup>th</sup> Unknown Programme) becomes “Unknown Free Programme”.**

**Para 1.2.1.1:** Change last line to read:

Unknown Free Programme (Programme 6)

**Para 1.2.3:** Change to read:

**Unknown Compulsory Programmes 1, 2, 3 and Unknown Free Programme (Programmes 2, 4, 5 and 6)**

**Para 1.2.3.1:** Change first sentence to read:

Programmes 2, 4, 5 and 6 must contain...

**Para 1.2.3.3:** Change first sentence to read:

The list of figures in Appendix 3 for Programmes 2, 4, 5 and 6 will be approved by CIVA on the basis of the Aresti System, Glider Version.

**Para 1.2.3.6:** Change first sentence and add new second sentence to read:

The sequence of figures for Programmes 2, 4 and 5 will be composed by the International Jury from the proposed figures and the additions of the International Jury. All the proposed figures should be used to compose programmes 2, 4, 5 and 6.

#### **Add new Paras 1.2.3.10 and 1.2.3.11**

##### **1.2.3.10**

The figures for Programme 6 are selected by the International Jury from all the teams' proposed figures with a total K of at least 180 and no more than 190K.

Each competitor composes his own sequence for Programme 6 from the figures offered by the International Jury. No more than two figures changing the direction (linking figures) may be added.

K-factor of linking figures is 5 each for two figures and 10 for one figure.

##### **1.2.3.11**

No later than 6 hours before the first flight of Programme 6, the competitors must submit three standard CIVA forms for their Programme 6. The forms must be completed in readable black writing according to paras 1.2.4.4. b) through f). The responsibility for accuracy and conformance of forms A, B and C lies with the competitor.

Any pilot who has not submitted their Programme 6 forms in time, will not be allowed to take part in Programme 6.

## 2. Radiophones

### Para 1.4.1 New text:

The use of technical devices to convey audible information to the pilot is not permitted during international aerobatic contests, except for standard air-ground radio sets. Radios will be set to the official safety frequency, which is published in the local regulations. The safety frequency is used only to convey urgent competition or flight safety instructions.

A competitor receiving any kind of audible information other than instructions from the contest organisation will be liable to disqualification from the contest.

**Delete paragraphs 1.4.1.1 through 1.4.1.3**

## 2. Meteorological Conditions

### Para 1.4.2.2. c) Add the following text:

If the contest is significantly delayed due to unfavourable weather and there is a serious risk that it may not be completed in time, the limits for the wind speed in the performance zone may be increased under the following provisions:

- Unanimous decision by the International Jury
- 100% agreement among the participating teams' Chief Delegates (no abstentions)

## 3. Marking of Rolling Turns

**Appendix 1, Pages 35 and 36** Following new wording was agreed:

**Page 35:** Delete fifth paragraph of text on rolling turns.

### **Page 36, Downgrades**

Para 1. unchanged

Paras 2. 3. and 4. new wording:

2. All rolls in a rolling turn are slow rolls. If a flick is flown or a stall occurs, the figure is HZ.

3. Each visible variation of the rate of roll as well as the rate of turn is a downgrade of no more than one (1.0) point.

4. Each stoppage of the rate of roll as well as the rate of turn is a downgrade of no more than two (2.0) points.

Delete para 5. entirely.

Paras 6. through 10. become paras 7. through 9.

## 4. Appendix 3 Figures for Unknown Programmes

Add the following notes at the bottom of the respective pages.

**Page 59** No superslow rolls are permitted on top of figures 7.5.1, 7.5.2 and 7.6.1  
No two-point or four-point rolls are permitted on top of figure 7.5.2

**Page 63** No flick rolls are permitted on the downlines of figures 8.15.2, 8.16.2, 8.17.1 and 8.18.1

**Page 64** No superslow rolls are permitted on top of figures 8.33.1 and 8.34.1  
No rolls are permitted on top of figures 8.33.1 and 8.34.1 after a roll on the upline.

**Page 65** No superslow rolls are permitted on top of figures in columns 1 and 2 of 8.43 through 8.46  
No flick rolls are permitted on the downlines of figures 8.45.2 and 8.46.2  
No two-point or four-point rolls are permitted on top of 8.44.2, 8.45.2 and 8.46.2

**Page 66** No superslow rolls are permitted on top of figures 8.51.3, 8.52.1, and 8.52.2  
No two-point or four-point rolls are permitted on top of 8.52.1

## **B. Changes to the Glider Version of the Aresti System**

### **1. K-Factors for Rolling Turns**

In line with the GBR proposal to re-calculate the K-factors for rolling turns by a new methodology, the

K-factors for rolling turns in gliders were reviewed and new values calculated.

The methodology used is the same as in the GBR proposal.

The following parameters were modified in relation to the GBR proposal in order to take account of the increased difficulty of flying such figures in gliders:

- 90° arc rolling inwards 50 points (40)
- 90° arc rolling outwards 70 points (50)

(Figures in parentheses are those for power.)

All other parameters from the GBR proposal are unchanged.

One further modification was applied:

Figures 2.16.1 through 2.16.4 are unique insofar as only half rolls are flown. Therefore, the multiplication factor for the first half roll should be 1.0 instead of 1.5. Thus, the K-factors for these figures will be more in line with the actual degree of difficulty than with a factor of 1.5. The calculations for all the new K-factors can be found on the attached Excel spreadsheet. The diagrams show the new K-factors in relation to those used currently.

### **Changes necessary to CIVA Regulations, Part 2, if the GBR proposal on rolling turns is implemented.**

- a) The maximum K of figures for Unknowns (1.2.3.1) must be raised from 35 to 40.
- b) The sum of K-factors for Unknown figures selected by teams (1.2.3.4) must be raised from 55 to 65 for two figures, from 70 to 80 for three figures and from 85 to 95 for four figures.

Lastly, the Programme proposed as Known Programme for 2006 must be modified by replacing figure 9 (2.19.2) by catalogue number 2.17.2 in order to stay within the limit of 190K maximum.



## **2. Deletion of Figures from the Aresti System, Glider Version**

**Page 9:** Delete entire line 2.5

**Page 11:** Delete all except line 3.1

**Page 29:** Delete catalogue numbers 9.1.1.3 9.1.1.4 9.1.2.3 9.1.2.6 9.1.4.6 9.1.5.4

**Page 30:** Delete all except line 9.2.3 and catalogue number 9.2.4.4

**Page 31:** Delete catalogue number 9.4.5.3

**Page 33:** Delete catalogue numbers 9.9.1.3 9.9.1.4 9.9.6.3 9.9.6.4 9.9.7.3 9.9.7.4

**Page 34:** Delete catalogue numbers 9.10.1.3 9.10.1.4 9.10.6.3 9.10.6.4 9.10.7.3  
9.10.7.4

edited by Manfred Echter