



*Fédération
Aéronautique
Internationale*



CIVA Rules Committee Report

Based on Rules & Judging Committees Joint Meeting

Agenda item 13.1

Version 1 / 15 October 2021

INTRODUCTION

The Rules and the Judging Committees jointly met online (over Zoom) on 15 August 2021.

In attendance:

Rules Committee (RC):

Matthieu Roulet - Chairman (FRA), Nick Buckenham (GBR), Mike Gallaway (USA), Elena Klimovich (RUS), Philippe K uchler (CHE), Hanspeter Rohner (CHE)

Judging Committee (JC):

Pierre Varloteaux - Chairman (FRA), Madelyne Delcroix (FRA), John Gaillard (ZAF), Elena Klimovich (RUS), Philippe K uchler (CHE), Mikhail Mamistov (RUS)

Observer:

Carole Holyk (CAN)

After the deadline of 1 July 2021 for the submission of Sporting Code “Normal Proposals”, the meeting package was assembled, and distributed on 1 August to the CIVA Bureau, RC / JC / GAC members, and to all CIVA Delegates. It was subsequently made available on the CIVA-News website as well as on the FAI CIVA Documents webpage.

In this report, we have summarized the actions taken by RC/JC Committees on the Power proposals (applicable to Section 6 Part 1). Actions on Glider proposals taken by the GAC (applicable to Section 6 Part 2) are reported in a separate Agenda report.

Those proposals submitted by Delegates which were either withdrawn or did not survive the RC / JC review are not included in this report, for the sake of brevity.

Passing the RC / JC review is the result of a consensus or majority decision by the attending Committee members, that those proposals shall be considered by the Plenary. Please note that passing this review does not necessarily imply that the RC / JC recommend those proposals to be adopted.

Also for the sake of brevity, proposals are not reproduced in full in this report. Please refer to the CIVA “Rule Proposals for 2022” document for full details and rationales.



Matthieu Roulet
Chairman, CIVA Rules Committee
15 October 2021

NP2022-1:

Source: FRA #1
 Document: Section 6 Part 1
 Subject: Programme 4: Order of flights in case of cut

Proposal:

Modify 3.2.1.9. as follows (changes underlined):

3.2.1.9 In case a cut is necessary in Programme 4 as per 2.1.2.2, the section concept is discontinued, maintained, and a new drawing of lots is carried out among all pilots making the cut. The pilots who are not making the cut are withdrawn from the flight order.

NP2022-3:

Source: FRA #3
 Document: Section 6 Part 1
 Subject: Interruption penalty

Proposal:

Modify 4.3.8.4. as follows (changes underlined):

4.3.8.4 The insertion of a figure to a sequence (...)

Interruption or Insertion	Unlimited	Advanced	Yak 52 / I
Penalty point tariff	<u>150</u> 100	<u>100</u> 80	50

NP2022-5/-2:

Source: GBR #1 & FRA#2
 Document: Section 6 Part 1
 Subject: Safety, warm-up and practice figures

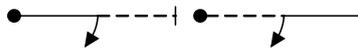
Proposal amended by RC (RC amendments highlighted):

Modify 3.9. as follows (changes underlined):

3.9. Safety, Warm up and Practice Manoeuvres

3.9.1.1. Before the wing-rocking at the start of each competition flight it is recommended that all pilots perform as a minimum the safety figures manoeuvres as follows.

Safety Figures

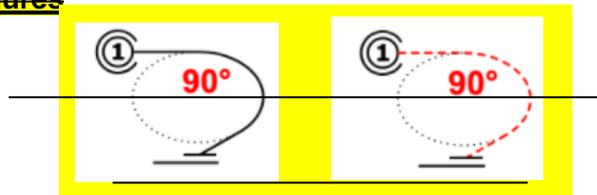


These figures are flown to check the aircraft's inverted fuel and oil systems are operable, there are no loose articles in the aircraft and to ensure that the pilot is properly harnessed in. The pilot may perform any number of these figures (1.1.1.3 & 9.1.3.2, 1.1.1.4 & 9.1.3.2), separately or continuously, before the wing rocking signalling the start of the competition sequence.

3.9.1.2. As additional safety checks, the pilot may perform push/pull stick inputs (in any order and any number, in erect or inverted flight) to create instant g-load and hence check harness and absence of loose articles in the aircraft.

3.9.1.3. In addition, the pilot may perform up to 4 of the following turns any number of turns (erect or inverted, but not rolling turns) as warm up manoeuvres, separately or in one continuous turn:

Warm up Figures



These warm-up manoeuvres are flown to help prepare the pilot for the upcoming g-loadings and to help reduce the risk of g-LOC.

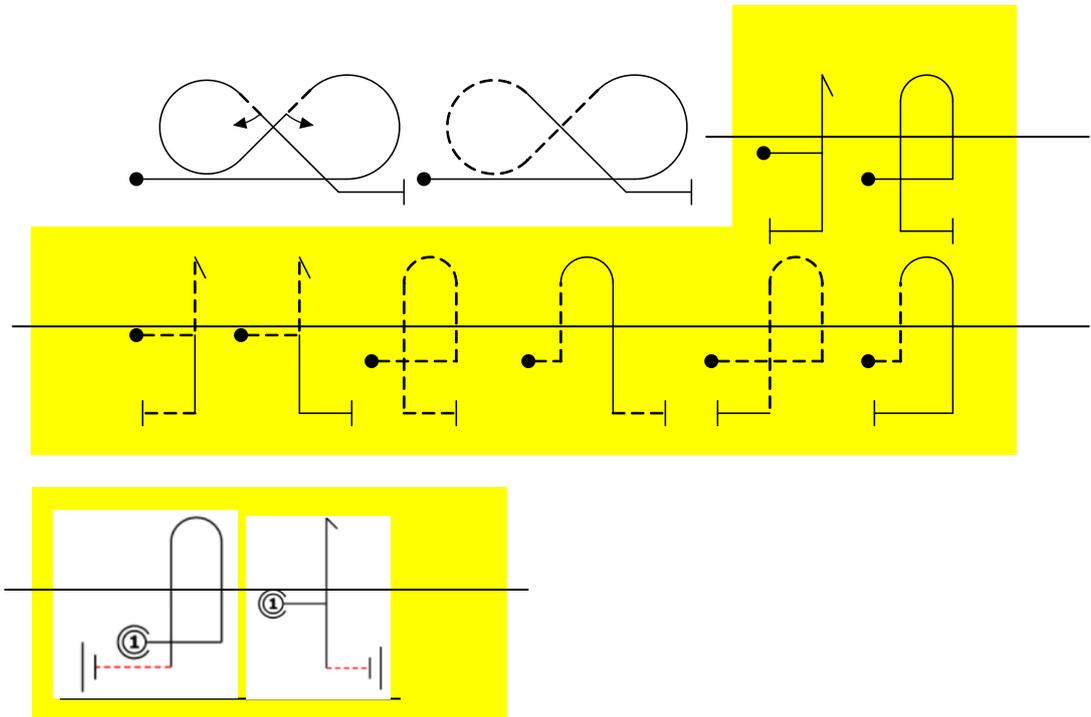
3.9.1.4. The pilot may then perform up to three (Programme 1), or one (Programmes 2 to 5), of the following practice figures:

Practice Figures

a) 2-line stall turns (all figures in family 5.2), without rotations;

b) Humpty bumps starting vertical up (all figures in family 8.4, rows 1 to 4, columns 1 and 2), without rotations:

c) Horizontal "8"s as follows: 7.8.4.1 with two half rolls only ; 7.8.1.1. without rotations



These figures provide additional preparation for g-loadings and allow the pilot to assess the wind direction and drift in the performance zone.

These figures are optional but, if flown, may be flown only once, in any order unless a figure starting inverted is used (see below), and continuously on the same axis.

- a) Figures of Families 5 and 8 that start or finish inverted are not permitted in Yak 52.
- b) When flown, a figure above from Family 5 or 8 that starts inverted shall be inserted after the first half roll. In that case, if the figure is one that finishes positive, the second half roll is not flown.

If required, the pilot may perform up to 2 of the following figures to ensure the correct orientation of entry into their first chosen practice figure and to return to erect level flight after the last figure:



3.9.1.4. These safety, warm up and practice figures may be flown before the commencement of all the Programmes.

3.9.1.5. They All figures must be flown inside the performance zone.

3.9.1.6. Prior to the actual performance of Programme 1, in addition to safety, warm up and practice figures manoeuvres according to 3.9.1.1-4, competitors will be permitted to fly, once, practice figures from their Programme 1 sequence, starting from figure one (1) of their sequence, consecutively up to the first five (5) figures.

3.9.1.3. Violations of safety, warm up and practice manoeuvres will be penalized in accordance with paragraph 4.3.2..

Note from RC: Amendments implemented by the RC/JC aim at:

- *Fixing the missing transitions to and from inverted flight for warm-up figures;*
- *Complementing the list of practice figures with all humpty-bumps starting vertical up;*
- *Simplifying judges monitoring of figures prior to wing rocking.*

NP2022-6:

Source: GER #1
Document: Section 6 Part 1 / Part 2
Subject: Video/Audio devices

Proposal:

Modify 3.5.1.3. as follows (changes underlined):

3.5.1.3 ~~Unfair pilot aids during flight will render the competitor liable to disqualification from the contest. Such unfair aids include:~~

Receiving any kind of audible information addressed to the competitor from anyone other than the Chief Judge or Air Traffic Control will render the competitor liable to disqualification from the contest.

~~Any electronic device or software other than that normally required for the safe conduct of the flight (e.g. audio information from the on-board G-meter is permitted, as well as passive items such as cockpit and wing sight gauges).~~

Note from RC: Originally submitted for Part 2 (3.6.1.3) but applicable to Part 1 (3.5.1.3) as well.

NP2022-7:

Source: RUS #1
Document: Section 6 Part 1 / Part 2
Subject: Drawing of lots

Proposal amended by RC (RC amendments highlighted):

Modify 3.2.1.2. as follows (changes underlined):

- 3.2.1.2 The initial sequence of flights for Programme 1 will be determined by drawing of lots ~~to be arranged by the Contest Director or his Assistant, in the presence of a representative of the International Jury.~~
- a) ~~The Organiser shall, with sufficient notice, submit the set-up of the drawing of lots (items to be drawn, position and clarity of the hidden numbers on items, etc) to the International Jury for approval;~~
 - b) ~~Prior to the drawing of lots, the Organiser shall give the approved items ready for the drawing of lots (i.e. with the number on each item, which will not be visible when drawing the lots) to the International Jury, together with any material needed as approved under a) above;~~
 - c) ~~The International Jury will then set up the items for the drawing of lots, with an appropriate shuffling ensuring a random drawing;~~
 - d) Each competitor will draw his or her own lot in front of attendees during the briefing, under supervision of the International Jury. If a competitor is not present to draw his or her own lot, a member of that competitor's team may do so.

NP2022-8:

Source: RUS #2
Document: Section 6 Part 1
Subject: Number of flick rolls in Advanced Unknowns

Proposal:

In the table of 2.3.1.4.a), increase number of allowed snap rolls in Advanced as follows (changes underlined)

Family 9.9: Min. 2, max 4 in Programme 2, max 5 in Programme 3, max 6 in Programme 4

NP2022-9/-20/-21/-22/-23:

Source: RUS #3, SPA #9, SPA #10, SPA #11, SPA #12
Document: Section 6 Part 1
Subject: Number of flick rolls in Unlimited Unknowns

Proposals amended by RC (RC amendments highlighted):

In table in 2.3.1.4.a), modify the following sentence on the total number of allowed flick rolls in unlimited:

Total of Families 9.9 and 9.10 not to exceed six, at least one of which must be vertically climbing

- NP2022-20 / SPA #9: Delete the sentence. Although not written in the proposal, considering SPA #10 the RC assumes SPA #9 proposes in addition to delete the limitation to a maximum of four of family 9.9 – positive flicks – and a maximum of four of family 9.10 – negative flicks.
- NP2022-9 / RUS #3: Modify the sentence as follows:
Total of Families 9.9 and 9.10 not to exceed six in Programme 2, seven in Programme 3, eight in Programme 4, at least one of which must be vertically climbing in all Programmes”
- NP2022-21 / SPA #10: Modify the sentence as follows:
Total of Families 9.9 and 9.10 not to exceed ~~six~~ nine, at least ~~one~~ two of which must be vertically climbing.
Family 9.9: A maximum of four five
Family 9.10: A maximum of four five
- NP2022-22 / SPA #11: Modify the sentence as follows:
Total of Families 9.9 and 9.10 not to exceed ~~six~~ eight, at least ~~one~~ two of which must be vertically climbing.
- NP2022-23 / SPA #12: Modify the sentence as follows:
Total of Families 9.9 and 9.10 not to exceed ~~six~~ seven, at least ~~one~~ two of which must be vertically climbing.

Note from RC: Spain proposed to cover approval of SPA #9 to #12 in this sequence, with approval of one proposal leading to withdrawal of the remaining ones (due to interconnection between these proposals). The approval methodology and sequence must be adapted however, due to the addition of RUS #3 also on the same subject. Therefore, the RC recommends to proceed in the following sequence:

1. *Vote on NP2022-20 : In case of approval, the sequence ends. In case of rejection, the sequence proceeds.*
2. *Vote on whether to increase the allowed number of flick rolls in Unlimited Unknowns. In case of a majority of “Yes”, the sequence proceeds, otherwise the sequence ends.*
3. *Vote on four options:*
 - a. *NP2022-9 [summary: 6 in Pgm2 ; 7 in Pgm3 ; 8 in Pgm4]*
 - b. *NP2022-21 [summary: 9 (max 5 per type), thereof 2 vertically climbing]*
 - c. *NP2022-22 [summary: 8, thereof 2 vertically climbing]*
 - d. *NP2022-23 [summary: 7, thereof 2 vertically climbing]*

First round: Each NAC votes to select any number of options. The two options with most votes are downselected for the second round. In case of tie preventing determination of the two leading options, an additional vote is carried out among the tied options to decide which one(s) is (are) selected for the second round, until the two leading options are determined. In case votes cannot lead to such determination, the least number of leading options above two are downselected for the second round. Second round: Each NAC votes to select one option out of the leading options after the first round. In case of tie, the CIVA President will have a casting vote.

NP2022-10:

Source: RUS #4
Document: Section 6 Part 1
Subject: Flick rolls in Advanced Unknowns

Proposal:

In A.23, allow the following snap rolls in Advanced in all Unknown Programmes:

9.9.1.2 , 9.9.1.3 , 9.9.1.4

NP2022-12:

Source: SPA #1
Document: Section 6 Part 1
Subject: Figures in Unlimited Unknowns

Proposal:

Add the 1 ½ two-point roll (**A.20. Family 9.2, Two-point rolls, fig. 9.2.4.6**) in the figures accepted for Programmes 2,3 and 4.

NP2022-13:

Source: SPA #2
Document: Section 6 Part 1
Subject: Figures in Unlimited Unknowns

Proposal:

Add the 3/4 four-point roll (**A.21. Family 9.4, Four-point rolls, fig. 9.4.4.3**) in the figures accepted for Programmes 2,3 and 4.

Note from RC: In case NP2022-13 is adopted, the RC recommends to add a vote on the following items, for consistency:

1. Add the 3/4 roll (**A.19. Family 9.1, Continuous rolls, fig. 9.1.4.3**) in the figures accepted for Programmes 2,3 and 4.

2. Add the 1/4 roll (A.19. Family 9.1, Continuous rolls, fig. 9.1.4.1) in the figures accepted for Programmes 2,3 and 4.

NP2022-14:

Source: SPA #3
Document: Section 6 Part 1
Subject: Figures in Unlimited Unknowns

Proposal:

Add the 1/4 eight-point roll (A.22. Family 9.8, Eight-point rolls, fig. 9.8.4.1) in the figures accepted for Programmes 2,3 and 4.

Note from RC: In case NP2022-14 is adopted, the RC recommends to add a vote on the following item, for consistency (in case it was not already adopted under additional items of NP2022-13):

Add the 1/4 roll (A.19. Family 9.1, Continuous rolls, fig. 9.1.4.1) in the figures accepted for Programmes 2,3 and 4.

NP2022-15:

Source: SPA #4
Document: Section 6 Part 1
Subject: Figures in Unlimited Unknowns

Proposals amended by RC (RC amendments highlighted):

Add the following figures (A.23. Family 9.9, Positive Flick Rolls) in the figures accepted for Programmes 2,3 and 4:

- Three quarter positive flick roll in a 45 degree positive line up (9.9.2.3)
- Three quarter positive flick roll in a horizontal positive line (9.9.3.3)
- Three quarter positive flick roll in a 45 degree positive line down (9.9.4.3)
- Three quarter positive flick roll in a 45 degree negative line up (9.9.7.3)
- Three quarter positive flick roll in a horizontal negative line (9.9.8.3)
- Three quarter positive flick roll in a 45 degree negative line down (9.9.9.3)

Add the following note in A.23:

A.23.1.1. $\frac{3}{4}$ positive flick rolls on non-vertical lines not permitted at any attitude when initiation or stop of the flick roll is to be performed with use of downward movement of rudder (lower pedal)

NP2022-16:

Source: SPA #5
Document: Section 6 Part 1
Subject: Figures in Unlimited Unknowns

Proposals amended by RC (*RC amendments highlighted*):

Add the following figures (A.24. Family 9.10, Negative Flick Rolls) in the figures accepted for Programmes 2,3 and 4:

- Three quarter negative flick roll in a 45 degree negative line up (**9.10.2.3**)
- Three quarter negative flick roll in a horizontal negative line (**9.10.3.3**)
- Three quarter negative flick roll in a 45 degree negative line down (**9.10.4.3**)
- Three quarter negative flick roll in a 45 degree positive line up (**9.10.7.3**)
- Three quarter negative flick roll in a horizontal positive line (**9.10.8.3**)
- Three quarter negative flick roll in a 45 degree positive line down (**9.10.9.3**)

Add the following note in A.24:

A.24.1.1. $\frac{3}{4}$ negative flick rolls on non-vertical lines not permitted at any attitude when initiation or stop of the flick roll is to be performed with use of downward movement of rudder (lower pedal)

NP2022-17:

Source: SPA #6
Document: Section 6 Part 1
Subject: 45° up rotations in Unlimited Unknowns

Proposal:

Modify A.2.2.3 as follows (changes underlined):

A.2.2.3. Combinations of aileron roll first, and then flick roll, may be added in Families 1, 7 and 8 on 45° up lines. The combined extent of rotation shall not exceed 540° with not more than 3 4 stops.

NP2022-18:

Source: SPA #7
Document: Section 6 Part 1
Subject: Remove PZ

Proposal:

Remove the Perception Zero as an element of judging, and return to the previous system, in which any figure incorrectly flown in respect to a geometrical criterion or technical criterion (i.e. all the PZ cases, according 4.4.2.1) would be HZ.

Note from RC: Originally submitted for Part 1 but applicable to Part 2 as well.

The RC & JC call for rejection of this proposal.

The RC & JC consider that introduction of the PZ mark has been a significant improvement to CIVA's scoring system – the PZ was actually introduced due to clearly identified flaws in the previous system. The RC & JC acknowledge there may have been a lack of recent communication on the PZ concept and how PZ are treated in the FPS scoring system. Therefore and in order to foster a common understanding on this topic within the aerobatics community, an explanatory paper on the PZ process has been published.

In any case, the RC & JC draw the attention of CIVA Delegates to the fact that removing the PZ mark (and replacing it by HZ) would require a revision of significant tbd parts of the current scoring methodology (e.g. currently HZ can be proven by video, whereas PZ cannot), and would bring CIVA back to the scoring method flaws that the PZ was introduced to fix.

NP2022-19:

Source: SPA #8
Document: Section 6 Part 1
Subject: Flick / Aileron roll combinations in Unknowns

Proposal:

Modify A.10.1.1 (in APPENDIX A: LIST OF FIGURES FOR PROGRAMMES 2, 3 AND 4) as follows (changes underlined):

- A.10.1.1. All Categories: No flick rolls permitted on the horizontal entry lines of figures in columns 1 and 2, nor on the horizontal exit lines of figures in columns 3 and 4, of 7.2.1 to 7.2.4.

NP2022-25:

Source: SPA #14

Document: Section 6 Part 1

Subject: Number of flick rolls per figure in Unlimited Unknowns

Proposal:

Modify 2.3.1.4.b) as follows (changes underlined):

2.3.1.4.b) There will not be more than ±2 flick rolls (Family 9.9 or 9.10) per figure.

NP2022-26:

Source: SPA #15

Document: Section 6 Part 1

Subject: Figures in Unlimited Unknowns

Proposal:

Remove A.17.1.7.

~~A.17.1.7 Unlimited: From 8.6.5 to 8.6.8: No flick rolls on vertical down lines after a hesitation roll in the loop.~~

Appendix 1 – Initial list of proposals from the “Rule Proposals for 2022” document

Highlighted in Yellow: Proposals for which the GAC and the RC/JC were to aim for a common position.

CIVA#	NAC	#	Subject	Allocation
NP2022-1	FRA	1	Programme 4: Order of flights in case of cut	RC
NP2022-2		2	Safety manoeuvres	RC / JC
NP2022-3		3	Interruption penalty	RC / JC
NP2022-4		4	Shorter Programme 4 sequence	RC
NP2022-5	GBR	1	Warm-up and practice figures	RC / JC
NP2022-6	GER ¹	1	Video/Audio devices	GAC / RC
NP2022-7	RUS	1	Drawing of lots	RC / GAC
NP2022-8		2	Number of flick rolls in Advanced Unknowns	RC
NP2022-9		3	Number of flick rolls in Unlimited Unknowns	RC
NP2022-10		4	Flick rolls in Advanced Unknowns	RC
NP2022-11		5	Official video recording	RC / JC / GAC
NP2022-12	SPA	1	Figures in Unlimited Unknowns	RC
NP2022-13		2	Figures in Unlimited Unknowns	RC
NP2022-14		3	Figures in Unlimited Unknowns	RC
NP2022-15		4	Figures in Unlimited Unknowns	RC
NP2022-16		5	Figures in Unlimited Unknowns	RC
NP2022-17		6	45° up rotations in Unlimited Unknowns	RC
NP2022-18		7	Remove PZ	JC / RC / GAC
NP2022-19		8	Flick / Aileron roll combinations in Unknowns	RC
NP2022-20		9	Remove limitation in number of flick rolls in Unlimited Unknowns	RC
NP2022-21		10	Number of flick rolls in Unlimited Unknowns	RC
NP2022-22		11	Number of flick rolls in Unlimited Unknowns	RC
NP2022-23		12	Number of flick rolls in Unlimited Unknowns	RC
NP2022-24		13	Unknown sequences	RC
NP2022-25		14	Number of flick rolls per figure in Unlimited Unknowns	RC
NP2022-26		15	Figures in Unlimited Unknowns	RC

¹ In addition, Germany submitted a proposal to amend FAI By-Laws to allow election of Alternate Delegates as Vice-Presidents of an Air Sport Commission. This proposal on FAI governance has no connection to the CIVA Sporting Code, hence cannot be in the scope of the Committees review, subject of this document. Therefore and in order to avoid any confusion, that proposal is not included in this document.

Appendix 2 – Check-list on all items in the “Rule Proposals for 2022” document

In red what was discussed in the RC/JC meeting

Item	Part 1 for Plenary vote (incl. with amendments)	Rejected by RC/JC or Withdrawn	Part 2 (incl. with amendments)	Other	Comment
NP 2022-1	✓				
NP 2022-2	✓				Merged with NP 2022-5
NP 2022-3	✓				
NP 2022-4		✗			Withdrawn (not mature enough)
NP 2022-5	✓				Merged with NP 2022-2
NP 2022-6	✓				
NP 2022-7	✓				
NP 2022-8	✓				
NP 2022-9	✓				In connection with NP 2022-20/-21/-22/-23
NP 2022-10	✓				
NP 2022-11		✗			Withdrawn (technical issues)
NP 2022-12	✓				
NP 2022-13	✓				
NP 2022-14	✓				
NP 2022-15	✓				
NP 2022-16	✓				
NP 2022-17	✓				
NP 2022-18	✓				RC/JC recommendation to reject
NP 2022-19	✓				
NP 2022-20	✓				In connection with NP 2022-9/-21/-22/-23
NP 2022-21	✓				In connection with NP 2022-9/-20/-22/-23
NP 2022-22	✓				In connection with NP 2022-9/-20/-21/-23
NP 2022-23	✓				In connection with NP 2022-9/-20/-21/-22
NP 2022-24		✗			Unresolved potential safety issues with just a drawing of lots of the sequence to be flown
NP 2022-25	✓				
NP 2022-26	✓				