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*Fédération  
Aéronautique  
Internationale*

## **Section 9 – Rotorcraft**

### **Proposed rule changes for discussion**

**(2019 Plenary)**

Event			Proposal	Proposing country	Notes
1	WHC	Event 1 - Navigation	Navigation to be flown at 250M along entire route.	Germany	
2	WHC	Event 1 - Navigation	Delete search box.	Germany	
3	WHC	Event 1 - Navigation	Organiser to define the course flown between A-line and F-line.	Germany	
4	WHC	Event 1 - Navigation	The use of loggers mandatory.	Germany	
5	WHC	Event 2 - Precision	No changes until measuring system being developed by Russia is evaluated.	Germany	
6	WHC	Event 3 - Parallel Fender Rigging	Timing to start after the fender crosses the D Line.	Germany	
7	WHC	Event 3 - Parallel Fender Rigging	The timing for the event should be set by the organiser.	Germany	
8	WHC	Event 4 - Parallel Slalom	Timing to start after the bucket crosses over the D Line.	Germany	
9	WHC	Event 4 - Parallel Slalom	The timing for the event should be set by the organiser.	Germany	
10	WHC	Event 4 - Parallel Slalom	The task should be completed to a time. Penalties incurred for completing task early or late.	Germany	
11	WHC	Event 4 - Parallel Slalom	Rope length reduced to deployment of 7 metres when placing bucket on the table.	Germany	
12	WHC	Event 4 - Parallel Slalom	Table size to be reduced to 0.5m with two circles for measurement.	Germany	
13	HWC	Both events	Crews would only participate in the general class or masters class.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
14	HWC	Both events	Basis for class selection would be the results list in master class ranking for HWC 2018; crews placed 1st to 14th master class;	Working Group - Russia, Belarus, Ukraine, Poland & Austria	

			crews 15th onwards general class.		
15	HWC	Both events	Any crew in general class has the opportunity to declare their desire to participate in master class not later than one month before the 1st leg of HWC 2019 commences.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
16	HWC	Both events	Annual changes in classes: according to the overall results of HWC 2019, the first 3 crews overall in general class move up to master class. The last 3 crews in master class revert to general class for HWC 2020.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
17	HWC	Both events	In order to hold a stage of HWC, there must be six crews registered for each class.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
18	HWC	Both events	Crews would start in general class on their first attendance at HWC. If required/desired, a general class crew can enter master class.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
19	HWC	Both events	Annual results and awards. The best two results per crew will be taken for overall scoring.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
20	HWC	Both events	Annual results and awards. For the Nations Cup, the results of the best crew per country will be taken.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
21	HWC	Both events	The Nations Cup should only be given to the overall winner in both classes.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
22	HWC	Parallel fender	Cancel any penalty for touching the container.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
23	HWC	Parallel slalom	A draw for the positioning of gates 5 & 6 is mandatory. Announcement to be made at the general briefing.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	

24	HWC	Parallel fender	A draw for the positioning of containers 1 - 3 is mandatory. The location of each container will be variable in each 40m x 40m square. Announcement to be made at the general briefing.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
25	HWC	Both events	Black flag to be used if the bucket or fender gets caught on the helicopter skids.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
26	HWC	Both events	In order to reduce competition time, the organiser can make the decision for each pair to compete for 1 victory (1 flight) and for 2 victories in semi finals only. (2 or 3 flights). The number of crews in each class should be taken in to account.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
27	ALL	ALL	Chapter 8, Chapter 2, 7.8 Text amendment: No competition rule shall be amended or added no later one year of the commencement of a Category 1 or 2 event unless there is a safety case to do so. (Normal procedure for plenary approval would apply). Reason: crews have time to practice and be familiar with rules before an event.	GBR	
28	WHC	Both events	Remove parallel courses for fender, precision and slalom. Reason: Gives variety between the WHC and HWC. Less crews are attending therefore; time saved with parallel events is not required. All competitors fly the same course and therefore measured consistently against each other with no course variation less judges are required.	GBR	
29	WHC	New event/replace fender	Introduction of a new event: "Blind Event":	Working Group - Russia, Belarus, Ukraine, Poland &	

			<p>This would include existing sections from the four classic events; the sections to be flown would only be announced at the General Briefing and then the complete course made known.</p> <p>Fender event may/would be replaced by this new "blind event".</p> <p>Blind event should be held as the last event on the last day, to allow the organiser sufficient time to erect the course.</p> <p>This new event would not be introduced until after the next WHC (2021 in CHN?).</p>	Austria	
30	WHC	Precision	<p>The distance of each skid from the nearest limit of the 5cm arrival line is measured in cm and mm and added together using 0.1 penalty point per mm/tenth of a cm. 120 points is the maximum penalty. (Delete "Part of a cm should be rounded up to the next full cm").</p>	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
31	WHC	Fender	<p>Fender for female co-pilots should be reduced in weight and size (size 25x70 cm, max weight –5kg).</p>	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
32	WHC	Fender	<p>Reduce time limit to 50 sec.</p>	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
33	WHC	Fender	<p>Placement of containers in the Fender event: A draw for the positioning of containers 1, 2, and 3 is mandatory. The place of each container can vary within each 40m x 40m square (The drawing to be provided). Announcement to be made at General Briefing.</p>	Working Group - Russia, Belarus, Ukraine, Poland & Austria	

34	WHC	Slalom	A draw for the positioning of gates 5 and 6 is mandatory.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
35	WHC	Slalom	Measurements on the table: The reference point for calculating the distance of the bucket from the centre of the target will be the centre of the bucket base. Penalty for distance between the bucket and the centre of the target – per tenth of cm - 0.1 point.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
36	WHC	Slalom	Table A round table, 1m diameter and 1m high (concentric circles 5 cm apart will be painted black and white). The centre – circle must have the same diameter as of the bottom of the bucket.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
37	WHC	Slalom	Reduce penalty for more than one attempt to put down the bucket to 3 points.	Working Group - Russia, Belarus, Ukraine, Poland & Austria	
38	WHC	Navigation	The route length 60-90 Kms.	Russia and Belarus	
39	WHC	Navigation	To turn around the doghouse by 180 degrees.	Russia and Belarus	
40	WHC	Navigation	Penalties for late exit of the search box: 0 to 10 seconds 0 penalties 11 to 20 seconds 5 penalties 21 to 30 seconds 10 penalties > 31 seconds 50 penalties.	Russia and Belarus	
41	WHC	Navigation	To limit the speed over lines A and F for security reasons.	Russia and Belarus	
42	WHC	Precision	Penalty points for landing (both sides are summarised): Landing on the A line -  0.1cm to 5.0cm 5 points 5.1cm to 10.0 cm 10 points 10.1cm to 15.0cm 15 points 55.1cm to 60.0cm 60 points Maximum penalty 60+60=120.	Russia and Belarus	

43	WHC	Fender	Timing - the flying time is limited to 45 seconds.  Penalty points for time:  45 to 60 sec 0.1 point for each second > 60 sec 0.1 point for each 0.1 sec.	Russia and Belarus	
44	WHC	Fender	To draw a red line in the upper part of the fender and to judge missing the gate (fender over poles) by the top of this line. Annex 2- Mark the position and size of the red line.	Russia and Belarus	
45	WHC	Fender	Fender for female co-pilots should be reduced in weight and size (size 25x70 cm, max weight 5kg).	Russia and Belarus	
46	WHC	Slalom	A draw for the positioning of gates 5 and 6 is mandatory.	Russia and Belarus	
47	WHC	Navigation	Turning point  To pass a turn point correctly, the entire rotorcraft fuselage must pass outside the vertical projection of the centre of the turn point or when the entire rotorcraft is proved to have entered a designated sector outside the angle made by the adjacent legs of the course.	GBR	
48	WHC	Fender	Infringements:  Missing the entrance gate by missing or fender over poles, increase to 30.	GBR	
49	WHC	Fender	Infringements:  Fender put into container with wrong rope length, rope shortened or lengthened (per infringements), increase to 30.	GBR	

50	Both	General	Unless specifically required by the flight manual, additional ballast or alterations of C of G should not be made by additional weights or ballast.	GBR	
51	WHC	Navigation	Chapter 5, 5.1.16 Alter text to include: Immediately after landing in the landing zone, the crew member hands the envelope containing the identification sheet for the ten panels and turning points; the competition navigation map and the logger to the judge to be put in an envelope to be sealed and marked with the competitor number on the outside. The envelope is to remain sealed until scored in the official scoring room.	GBR	
52	WHC	General section	Chapter 8, Chapter 2, 13.8  Remove the use of cameras for evidence collection on board the aircraft.	GBR	
53	WHC	General section	Chapter 8, Chapter 2, 13.9 The inclusion of: A minimum of 10 crews per event The search can take place anywhere between the parking place and the start line.	GBR	
54	WHC	General	Chapter 8, Chapter 6.3, 2 - types of helicopter (a to d)  This text to be added to Chapter 2, and headed as 2.4.	GBR	
55	ALL	General	Chapter 8, Chapter 3, 10  10.1 adjust text to include Briefings will be in English and translators will be provided by the host nations to key personnel who are non native English speakers.	GBR	



56	ALL	General	Chapter 8, Chapter 1, 4.0  To include: Risk assessment and Risk register.	GBR	
57	ALL	General	Chapter 8, Chapter 1, 6.1  Text to include: There may be CIG approved substitutions at a later date.	GBR	
58	ALL	General	Chapter 8, Chapter 2, 1.8  Remove text commencing "where" and ending "ranking".	GBR	
59	ALL	General	Chapter 8, Chapter 2, 5.2  To include "by the Event Director".	GBR	
60	ALL	General	Chapter 8, Chapter 2, 1.1  To include after Team manager - (must be declared 12 hours before the competition starts).	GBR	
61	ALL	General	Chapter 3, 5.8  Additional text - the names and contact numbers will be on the notice board.	GBR	
62	ALL	General	Chapter 3, 1.0  If the host NAC is to hold more than one event, it cannot start any other event until the prize giving and closing ceremony of the first event has been concluded.	GBR	
63	ALL	General	Chapter 3, 1.0  No host nation must use their national training facility as the airfield for any Category 1 event.	GBR	