



FAI Sporting Code

*Fédération
Aéronautique
Internationale*

Rules and Regulations Precision Flying

2019-2020 Edition

Approved by the FAI General Aviation Commission (GAC) at the
FAI/GAC Meeting, November 20182019, in HelsinkiBillund,
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1 FAI Statutes, Chapter 1, para. 1.6

2 FAI Sporting Code, General Section, Chapter 3, para 3.1.3.

3 FAI Statutes, Chapter 1, para 1.8.1

4 FAI Statutes, Chapter 2, para 2.1.1

5 FAI Bylaws, Chapter 1, para 1.2.1

6 FAI Sporting Code, General Section, Chapter 3, para 3.4

7 FAI Bylaws, Chapter 1, para 1.2.3

8 FAI Statutes, Chapter 5, para 5.2

9 FAI Sporting Code, General Section, Chapter 3, para 3.1.7

10 FAI Sporting Code, General Section, Chapter 1, paras 1.2. and 1.4

11 FAI Statutes, Chapter 5, para 5.2.3.3.7

12 FAI Bylaws, Chapter 1, para 1.2.2

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AIMS FOR PRECISION FLYING COMPETITIONS

The competition is designed for solo pilots flying single piston engine aircraft. The sport of precision flying is aimed at improving fundamental flying skills to enable a solo pilot to navigate and handle an aircraft under basic visual flying conditions independent of the use of technical systems thus enhancing flying safety. Precision flying in light aircraft is the aerial equivalent of the sport of orientation race which is well known amongst athletes.

The competition consists of the following three main groups of tests:

1. Flight planning and navigation
2. Special observation
3. Landing

The overall aim for the sport of precision flying is achieved by:

1. Emphasizing the ability to calculate an accurate flight plan using the most basic of equipment.
2. Emphasizing the ability to follow a precise track whilst adhering closely to a time schedule.
3. Emphasizing the ability to perform realistic observation tasks from air to ground whilst navigating the aircraft on a strict time schedule.
4. Emphasizing the ability to land an aircraft in short and narrow places with the simulation of trees or other obstacles on the approach, thereby fully demonstrating a pilot's ability to handle an aircraft both accurately and safely.

A COMPETITION RULES

A.0 INTRODUCTION

A.0.1 The competition is for solo pilots in class C aeroplanes, capable of flying the competition described in these rules. Each competing aircraft and pilot must adhere to the regulations currently in force in the aircraft's registration country and organizer's country and possess a valid FAI Sporting License.

A.0.2 Each National Aero Club, member of FAI, may submit up to 10 competitors. and in addition, a team manager, engineers and observers. Each participating country is invited to send current qualified international judges. If a country sends more than 5 competitors, that country must inform the organizers at the final registration which 5 competitors are the national team, and only these competitors are eligible for team trophies. If the total number of entries exceeds 80 the organizer is permitted to reduce the maximum number of entries per countries

A.0.3 The competition will consist of the following three groups of tests:

1. FLIGHT PLANNING AND NAVIGATION TESTS
2. SPECIAL OBSERVATION TESTS
3. LANDING TEST

A.0.4 The competition will consist of one Landing Test (4 landings) and three Navigation Tests.

A.0.5 Each competitor will fly the same aircraft throughout the competition, except that, at the discretion of the competition director, he may change to another aircraft of the same type if a technical malfunction occurs.

A.0.6 Each aircraft used in competition must have a minimum demonstrated crosswind component of 10 kts.

A.1 USE OF GPS-LOGGERS

A.1.1 The use of flight data recording equipment is mandatory for World and Continental Championships.

A.1.2 Only equipment approved by the GAC may be used. Competitor must declare type of **equipment-GPS logger equipment** in entry form.

A.1.3 Requirements for flight data recording equipment are documented in the Sporting Code, Section 2, Annex 4

A.1.4 The competitor must declare which logger is the master logger. It should be clear that the master logger will be the only logger used for scoring the flight. Only when this log is not complete the scoring team will ask the competitor to use the backup. Even for the jury the backup Logger should not be used.

A.1.5 Responsibility for the operation of the Flight Data Recording Equipment rests with the Competitor.

A.1.6 The International Chief Judge – or a Judge appointed by him – will use the registered flight track of each competitor, as depicted on paper-printout or screen-display, to make judgments on passing times and possible violations of the flight rules or of the given flight instructions.

A.1.7 The master clock will show GPS-time.

A.2 FLIGHT PLANNING AND NAVIGATION TESTS

A.2.1 FLIGHT PLANNING TESTS

A.2.1.1 The competitor must report at the entrance to the flight planning room five (5) minutes before the assigned time to be checked for non-permitted equipment (see A.1.1.8)

A.2.1.2 The competitor may enter the flight planning room, three (3) minutes before the assigned time to arrange the table to be ready in time to receive (1) an envelope, (2) the competition map, (3) a set of instructions, (4) a set of en route photos, (5) a set of TP photos. (6) a flight planning form, (7) departure and arrival charts.

A.2.1.3 The competitor is required to calculate his flight plan for the navigation test which he must submit to the competition management within thirty (30) minutes of receiving his flight instructions. Following the submission of the flight plan the pilot will receive a computerized flight plan

A.2.1.4 The instructions will define all necessary flight procedures and identify the turn points. On the competition map, the turn points, together with start and finishing points, will be circled and numbered. The wind direction and speed between 5 and 30 knots will be given. The wind on the computer-calculated flight plan may differ from the actual wind. All competitors will work with the same wind at flight planning. A master map with the navigation route clearly marked (all turn points, together with start and finish points will be marked with a pinprick) and the photographs must be displayed in the flight planning room.

A.2.1.5 The flight plan will require the competitor to calculate only the true heading in full degrees and the time on each leg in minutes and seconds. Leg distance to at least tenths of a nautical mile will be given. Time for procedure turns shall not be added by the competitor.

A.2.1.6 Flight planning calculations shall be performed by manual aids. No electronic equipment, except clocks, and no tables of calculations prepared in advance, are allowed. No communication and no navigation device whatsoever shall be allowed, except for flight data recording equipment.

A.2.1.7 If actual wind conditions change during the competition (more than 45° in direction and/or more than 10 kts in velocity) a new computerized flight plan must be given out for the next group of competitors.

Computerized flight plans based on each individual competitor's official TAS, will be produced by the competition management and will be used by all competitors.

The computer flight plan shall specify:

- Local times for take-off, start point, all turn points and finish points in hours, minutes and seconds.
- True tracks and true headings in full degrees.
- Groundspeeds to at least a tenth of a knot.
- Distances to at least a tenth of nautical miles.
- Time of each leg in minutes and seconds.

A.2.1.8 Leaving the flight planning room later than 60 minutes after receiving the flight instructions will incur penalties. After the competitor is scheduled to leave the flight planning room, he shall be allowed 15 minutes to go to his aircraft, prepare it for flight and taxi to the take-off position.

A.2.2 NAVIGATION TESTS

A.2.2.1 The object of each test is to assess the competitor's skill in precise navigation, observation and timing. The test includes maintaining correct tracks, altitudes and groundspeeds.

- A.2.2.2** Times will be checked on take-off and on passing overhead the start and finish point, in addition to timing at turning points and other checkpoints. The latest arrival time for the landing will be given.
- A.2.2.3** Turning points are not necessarily timed checkpoints. There shall be 12 to 25 timed checkpoints, including take off, start point and finish point. No navigation test will have more than 8 legs. All legs shall be straight.
- A.2.2.4** No secret Checkpoint will be placed in the first 0,5 Nm of any leg.
- A.2.2.5** There shall be a gap of not less than 2 NM between any timed point (secret or TP).
- A.2.2.6** The aircraft must be established on the correct track of the first leg when crossing the start point. Circling after passing the start point is not allowed, except if prescribed for specific flight procedures.
- A.2.2.7** The start, turn and finish points must be well-defined features, both on the map and on the ground and must be placed not less than 3 NM from the edge of the competition map.
- A.2.2.8** During the navigation tests the recommended flying altitude is 1000 feet AGL. The organizer has the right to declare a different altitude for safety reasons. The minimum altitude to be flown is 500 feet AGL or the state limits, whichever is higher. If the state limit is higher than 500 feet AGL, it must be published in the local rules.
- A.2.2.9** The distance, between the start point and finish point, for each of the three navigation tests will not be less than 60 Nm. and not more than 100 Nm. The total distance for all the navigation tests will not exceed 270 Nm.
The minimum allowable competition TAS is 60 kts. Declared speeds will be in multiples of 5 kts. only.
- A.2.2.10** The departure and arrival charts will give the position of the start and finish points. The charts will be to an approximate scale of 1:50,000 and will be defined in the local rules.
- A.2.2.11** The take-off-time will be measured at a gate situated perpendicular to the runway direction along of the length of the runway in use, and clearly marked.
- A.2.2.12** All SCs, TPs, SP and FP must be passed by the competitor inside a gate. All gates extend 0,5 NM to the left and right of the relevant point:
- For SP, the gate shall be perpendicular to the outbound track.
 - For FP, TPs and SCs it shall be perpendicular to the inbound track.
 - Passing outside a gate incurs penalties for not observed.
 - No penalties will be given for deviating from the track by more than 0.5 NM if a gate is not established.
- A.2.2.13** Penalties for a turn of more than 90° on the leg are only given, when the flight data recording shows this deviation for more than 5 seconds in sequence.
After passing the gate at a TP no penalties for circling will be given within a radius of 0,5 NM from the TP.
- A.2.2.14** At SP, the gate has an extended gate line, being a distance of 1,0 NM right and left of the SP.
- Crossing this extended SP gate line, in the opposite direction to the flight at any time gives penalties for circling.
 - Timing, including not observed, at the SP takes place when the aircraft first passes the start gate in the direction of flight.
- A.2.2.15** A procedure turn will be prescribed where any turn point involves a change of track of more than 90 degrees.
- Procedure turns are mandatory. When a procedure turn is prescribed, the computerized flight plan given to the competitor shall include one minute for the turn, added on a separate line.

Diagrams showing the shapes of acceptable procedure turns are shown in Appendix A3. Failure to carry out procedure turns will incur penalties.

A.2.2.16 At TPs with procedure turns, the gate has an extended gate line, being a distance of 3,0 NM right and left of the TP. Carrying out a prescribed procedure turn before passing the gate line or when passing outside the gate line will incur penalties for circling. In this case, no extra penalties for not carrying out the procedure turn at the correct position will be given. (See sketches Appendix 3)

A.2.2.17 Only maps with good topographic information to a scale of 1:200,000 - 1:300,000 will be used for competition purposes.

For emergency and legal requirements an unmarked ICAO 1:500,000 chart must be carried in the aircraft. No other maps or charts except arrival and departure charts, may be carried during the competition.

A.2.2.18 Use of receivers that determine their position by analyzing satellite signals are allowed (GPS). Use of any electronic device capable of two-way communication is not allowed (iPad, tablets, mobile phones etc.). Equipment showing maps below scale 1:500.000 or enable plotting competition route is not allowed. Mobile equipment is not allowed to show any maps. Any electronic equipment and autopilots could be sealed and shall not be used during the competition except in case of emergency. Any broken seals could result in disqualification of the competitor.

~~Competitor must declare~~ ~~Competitor must declare~~

A.2.2.19 ~~Competitor must declare type of equipment mentioned in A.2.2.18 in entry form (including fixed installed equipment). For rental aircraft the declaration is made by the organizer.~~ ~~type of equipment mentioned in A.2.2.18 in entry form (including fixed installed equipment)~~

~~A.2.2.20~~ **A.2.2.19**

A.3 SPECIAL OBSERVATIONS TESTS

A.3.1 The object of these tests is to assess the pilot's skill in making correct observations during a complex navigation flight. The test includes:

- Identifying canvas targets along the tracks,
- Identifying photographic targets,
- Indicating the position of both types of target on the competition map.

A.3.2 The max. total number of targets and photographs is 25, the min. number is 16.
The max. number of photographs is 10, the min. number is 8.
The max. number of ground targets is 15, the min. number is 8.

Correct photographs at TPs, SP and FP are mandatory. Each photograph has to be taken from the inbound track, with the checkpoint circled. These photographs are marked with the name of the checkpoint (SP, TP1, TP2, ... FP).

Canvas targets at start, finish and turn points shall be as close as practical to the point, but within a radius of 30 meters, and must be letters of the alphabet.

The exact position of the photos and canvas targets will be marked by the competitor on his competition map (see Appendix A1).

A.3.3 Canvas targets are not mandatory at secret checkpoints, SP, TPs or FP.

A.3.4 Canvas targets en route will not be letters of the alphabet. Permitted letters or signs are those contained in Appendix A1.

A.3.5 The precise target to be identified on each photograph will be circled.

A.3.6 No photograph or target will be placed within the first 0,5 NM of any leg.

A.3.7 Targets or photographs wrongly identified or marked will be penalized (see A.10.2.1).

A.3.8 At the end of the flight, at the parking position, the competitor is allowed five minutes, while seated in his aircraft, for completing his markings on the map. The five minutes will begin after the aircraft has stopped at its parking slot or assigned stop (for example: fuel station).

A.3.9 The competitor will be debriefed as soon as possible.

A.3.10 Procedure for scoring the observation test:

1. Phototargets:

- They will be scored as "correct/incorrect position" or as "not observed".

2. Canvas targets at start, finish and turn points:

- They will be scored as "correct/incorrect target" or as "not observed"

3. Canvas targets en route:

- a. Compare the figure of the marked targets en route with actual figure drawn by the organizer .

- b. The number of missing targets en route will be scored as "not observed".

- c. Marked en route targets will then be scored as "correct" or "incorrect target or position".

A.4 LANDING TEST

A.4.1 The object of this test is to assess the pilot's skill in landings of different types. Circuits may be left or right hand. Circuits for landings 1 and 4 must be above 500 feet QFE. Circuits for landings 2 and 3 must be not less than 1,000 feet or more than 1,200 feet QFE. These will be defined by the competition management who has the right to vary the circuit direction. The tests include the landings described below:

A.4.1.1 LANDING 1: NORMAL LANDING

A landing where the use of power, spoilers, flaps or sideslip is at the discretion of the pilot.

A.4.1.2 LANDING 2: IDLE POWER LANDING

Abeam the zero line, the engine is throttled back to idle power. Power shall not be used thereafter. Flaps, spoilers and sideslip may be used at the discretion of the pilot.

A.4.1.3 LANDING 3: IDLE POWER LANDING WITHOUT FLAPS

Abeam the zero line, flying with flaps fully retracted, the engine is throttled back to idle power. Power, spoilers and flaps shall not be used thereafter. Sideslip may be used at the discretion of the pilot.

A.4.1.4 LANDING 4: OBSTACLE LANDING

The competitor will make a landing after passing a marked obstacle 2 meters high, placed 50 meters before the touchdown line. Use of power, spoilers, flaps or sideslip is at the discretion of the pilot. Approaches for the obstacle landing, where the wheels are lower than the obstacle before passing over it, are not permitted (creeping).

A.4.2 The landing test will be run as a separate event to enable the participation of all international judges to judge the event.

- Each landing shall be followed by a full stop shall be followed by a full stopis conducted as a full stop landing.

- The sequence of landings will be briefed.

- A.4.3** Depending on the situation, the competition director may authorize touch-and-go landings.
- A.4.4** All landings are to be made as close as possible to the zero area, within a strip 12 meters wide and 72 meters long. See Appendix A2. The strip will be marked and aircraft must keep within the strip.
- A.4.5** Touchdown must be on both main wheels with a maximum distance of five (5) meters between main wheel 1 and main wheel 2, except when the international chief judge has decided that a crosswind condition exists. If the touchdown is in or after the zero area and the distance between the touchdown of the main wheels is 5 meters or less, the touchdown point for measurement is the touchdown of the first main wheel.
If the distance is more than 5 meters, the touchdown point for measurement is the touchdown of the second main wheel. The nose wheel must be off the ground at touchdown. Tail wheel aero planes must be landed in a configuration where the tail is lower than the horizontal attitude.
- A.4.6** Touchdown on or after the zero area is measured when the aircraft is rolling on the ground after all bounces. In case of bounces before or after the line, the touchdown that is counted is that one which gives the highest penalty.
- A.4.7** An aircraft is considered bouncing when both main wheels (or a sole main wheel) leave the ground after any touchdown, to a height of more than the diameter of the main wheel, or for a distance more than 15 m. A jump into a 5 meter box must be calculated this way: Box meters minus 4 meters, minus the measured lift-off point before.
- A.4.8** In the case of any part of the aircraft touching the ground before the zero area, the distance measured will be the distance from the touchdown point to the zero line. In the case of a tail wheel landing which is judged to be three-pointer landing (the tail wheel may roll on the ground for a maximum distance of five (5) meters before the main wheels), the touchdown point of the main wheels shall be measured.
- A.4.9** A crosswind condition shall exist, when the crosswind component of the wind, (that is the component at right angles to the runway in use), is 8 kts or more. Wind direction and speed shall be measured close to the zero-line by a suitable anemometer and recorded for each landing. The maximum allowed tailwind component is 3 kts.

The international chief judge will decide when a crosswind situation exists, and shall direct that a conspicuous flag signal is placed 30 meters before the zero line to advise competitors.

Touchdown on the upwind main wheel only is allowed when a crosswind exists.
- A.4.10** Power has to be completely retarded at touch down and only sufficient power is permitted after the aircraft has come to a complete stop, to continue the roll to the end of the landing strip. After leaving the landing strip, the aircraft shall clear the runway.
- A.4.11** Abnormal landings in all four types of landing are defined thus:
- a) Nose wheel not off the ground,
 - b) A tail wheel aircraft not in a configuration with the tail below the horizontal,
 - c) One main wheel off the ground at the initial touchdown, without authorized crosswind conditions, to a height of more than the diameter of the main wheel,
 - d) In crosswind conditions touchdown on downwind main wheel only,
 - e) Any part of the aircraft other than the wheels touching the ground,
 - f) Retraction of flaps inside landing strip before touchdown,
 - g) Touchdown with locked wheels,
 - h) One or both main wheels leave the ground, while nose wheel remains on it.
 - i) Any abnormalities after any bounce (see points 'a' to 'h' above) must be considered as abnormal landing
- A.4.12** In the event of a competing aircraft not touching the ground in any of the landing tests or landing outside the strip, he will be penalized.
- A.4.13** All approaches and landings must be considered as being safe. If the international chief judge,

competition director or his appointed representative is of the opinion that an approach or landing is deemed as dangerous, flying will be stopped until the jury has made a decision (See A.7.1).

A.4.14 All wheels, with the exception of the tail-wheel in that case of tail-wheel aircraft, must be marked by two perpendicular white lines (width about 5cm) on both sides of each wheel

A.5 GENERAL RULES

A.5.1 All aircraft main wheel covers (spats) should be removed prior to the landing competition. All landings are to be video recorded to assist the jury only. Any modification temporary or permanent, to the wheels, undercarriage, oleos or shock absorbers which is not approved by the manufacturer and the certification authority is not permitted and may result in disqualification.

A.5.2 In the event of a failure to start, the competitor must not leave the aircraft and he must not communicate with his team. He will make a radio call to competition management to explain the situation and then follow given instructions.

A.5.3 In the event of a reduction in flying time, the competition director will discuss alternative tasks with the jury, international chief judge and the team managers before issuing directives on how the championship will be concluded. A championship must include at least two flown navigation tests and two landings. When two navigation tests are flown and only two landings are taken into account, the landing penalties will be multiplied by two. When only one navigation test can be flown, or when less than two landings are taken into account, there will be a *Competition Winner* but not a *Champion*.

A.5.4 Smoking is prohibited at all briefings and in the flight planning room.

~~**A.5.5** No competitor is permitted to take any alcohol less than 10 hours prior to the start of daily competition.~~

A.5.6 The competition language will be English.

A.5.7 The competition director may install electronic equipment like video or live-tracking in selected aircrafts. The competitor is not allowed to deny this equipment, but the equipment shall not disturb the competitor in any way.

A.6 SCORING

A.6.1 The competition is both an individual and team competition.

For the team prize, the total number of penalties from the three (3) best pilots from each country will be added together. The winning team will receive the challenge team trophy.

A.6.2 The final results will consist of all penalties being added together. In each section and sub-section, all penalties must be added together to calculate the maximum to be awarded to each competitor. The competitor with the lowest number of penalties becomes the champion.

A.6.3 The winner of the navigation trophy is the pilot with the lowest number of penalties for flight planning and navigation

A.6.4 In the case of two or more competitors having the same number of penalties, the competitor with the lowest penalties in each group in the following order will be adjudged the winner:

- The competitor with the lowest number of penalties for flight planning and navigation, or,
- The competitor with the lowest number of penalties for landings.

A.6.5 In the event of two or more competitors having the same number of penalties for the navigation or landing trophies, the following will apply:

A.6.5.1 Navigation trophy:

- The competitor with the lowest number of penalties for flying (timing) or
- The competitor with the lowest number of penalties on all secret time checks, or
- The competitor with the lowest number of penalties in the special observation test.

A.6.5.2 Landing trophy:

The competitor with the lowest number of penalties in:

- Idle power landing without flaps or
- Idle power landing or
- Obstacle landing

A.6.6 If there is a continuing tie multiple winners will be declared.

A.7 DISQUALIFICATION

A.7.1 Any misconduct or bad behaviour on the ground or in the air including unsporting behaviour or protests against other competitors could result in the international jury disqualifying the competitor concerned.

A.7.2 If a competitor communicates with any unauthorized person from the time of entering the flight planning room until the time the last competitor has taken off on his navigation test or enters any restricted area on the competition site without permission, he runs the risk of disqualification both for himself and the whole of his national team.

A.7.3 Any competitor, found using non permitted equipment in the flight planning room or aircraft or in the security area, or found to have tampered with any sealed navigation or radio equipment or manipulating the flight recording system will be disqualified and may risk disqualification of his national team.

A.7.4 Any unauthorized alterations to aircraft landing gear during the landing tests as indicated in A.4.1 may result in disqualification.

A.8 JUDGING

A.8.1 An international chief judge shall be appointed by FAI-GAC prior to the championship. Each country will be invited to send current international judges. International judges will be positioned by the international chief judge. International judges will also participate in the landing competition, as directed by the international chief judge.

A.9 PROTESTS

A.9.1 The chairman of the jury and the other jury members will be appointed by FAI-GAC in accordance with the sporting code, general section. Their duties include observing and ensuring that the championship is being run in accordance with the FAI sporting code and championship rules. They also rule on all formal protests. In the event of a replacement of any member, the new member will be appointed by the president of GAC after consultation with the rules committee.

A.9.2 The Competition Director will publish individual results as quickly as possible by the best available method. The results will be marked "preliminary and subject to protest".

A.9.3 Within 30 minutes of the release of the individual results the competitor and/or team manager may present a written request (complaint) to the International Chief Judge for clarification. If not satisfied with the clarification, a protest may be filed with the Competition Director within 30 minutes after the clarification was given, accompanied by the relevant protest fee.

A.9.4 The video recordings of the landing may be used by Chief Judge and two independent International Judges for checking the results of landings before final judging of the landings. After final judging, the video recordings of landing may be used by the jury when dealing with protests may be

shown/given to the competitor/team manager.

- A.9.5** When the prescribed fee has been paid to the competition management and the protest filed in writing, the protest becomes official and is referred to the international jury for a decision. The team manager and competitor have the right to address the jury if desired.
- A.9.6** If the correction of the International Chief Judge at Complaints or the ruling of the jury affects another or other competitors, the appropriate alterations will be made to the results.
- A.9.7** Protests against other competitors are forbidden.
- A.9.8** The jury must be available at all time during the championship to deal with protests.
- A.9.9** The prescribed fee in connection with any protest submitted to the jury will be EURO ~~100,- 50,-~~ and shall accompany the written protest. The fee will be returned in the case of a successful protest only.

A.10 TABLE OF PENALTIES

FLIGHTPLANNING AND NAVIGATION

		Penalties	Maximum Penalties
A.10.1.1	Preparation of flight plan		
	- Limit + or - 2 degrees in heading	0	
	- Additional error per full degree	2	
	- Limit + or - 5 seconds in timing	0	
	- Additional error per full second	1	
	- Maximum total penalties for calculation		200
	Late delivery of flight plan (> 30 minutes)	50	50
	Failure to leave flight planning room after 60 minutes	100	100
A.10.1.2	Take-off time (aircraft passing starting gate)		
	- Limit + 60 seconds	0	
	- Passing the take-off gate before or after time slot	200	200
A.10.1.3	Passing each timed point		
	- Limit + or - 2 seconds	0	
	- Additional error per full second	3	100
	- —not observed— (outside gate), each time	100	
A.10.1.4	Procedure turn		
	- Failure to carry out prescribed procedure turn each time	200	200
A.10.1.5	Flying below the minimum altitude (each time)	500	500
A.10.1.6	Other deviations from track (each time)		
	- Circling or backtracking being a turn of more than 90 degrees either way (each time)	200	200
	- Not following described arrival/departure routes and/or procedure.	200	200
	- Late arrival at downwind/holding pattern of competition airfield (if latest arrival time is given).	200	200
A.10.1.7	Late submission of competition map (after 5 minutes wheel stop)	100	100

A.10.2 SPECIAL OBSERVATION

A.10.2.1 Photo and en route canvas targets:

- Correct photo or target within 5 mm of correct position	0	
- Not observed	20	20
- Incorrect photo, target or position	30	30

Canvas targets at start, turning and finish points:

- Not observed	50	50
- Incorrect	100	100

A.10.3 LANDINGS

	1 Normal	2 Idle	3 Idle no flaps	4 Obstacle
Maximum penalties per landing	400	200	200	400
Outside the strip or no landing	300	200	200	300
Abnormal landing (A.3.10 a to h)	200	200	200	200
Rolling out of the landing strip to the side	200	150	150	200
Power on the ground in the strip touch and go only	50	50	50	50
Non permitted use of power (in the air)	∞	200	200	∞
Non permitted use of flaps or spoilers (in the air)	∞	∞	200	∞
Touching, destroying the obstacle or "creeping" over obstacle	∞	∞	∞	400

Penalty information for distance:

45

40

35

30

25

20

00

20

25

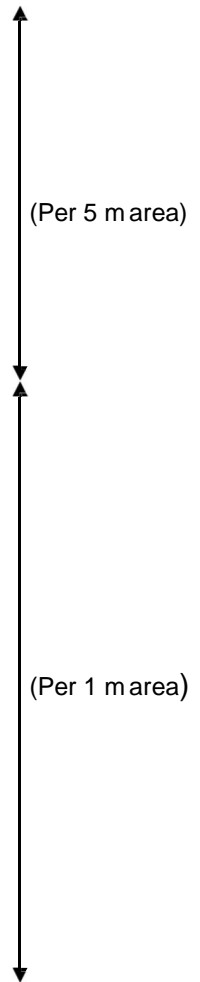
H=45
G=40
F=35
E=30
D=25
C
B
A=-25

Landings

1+4

2+3

225	135
200	120
175	105
150	90
125	75
5	3
10	6
250	150

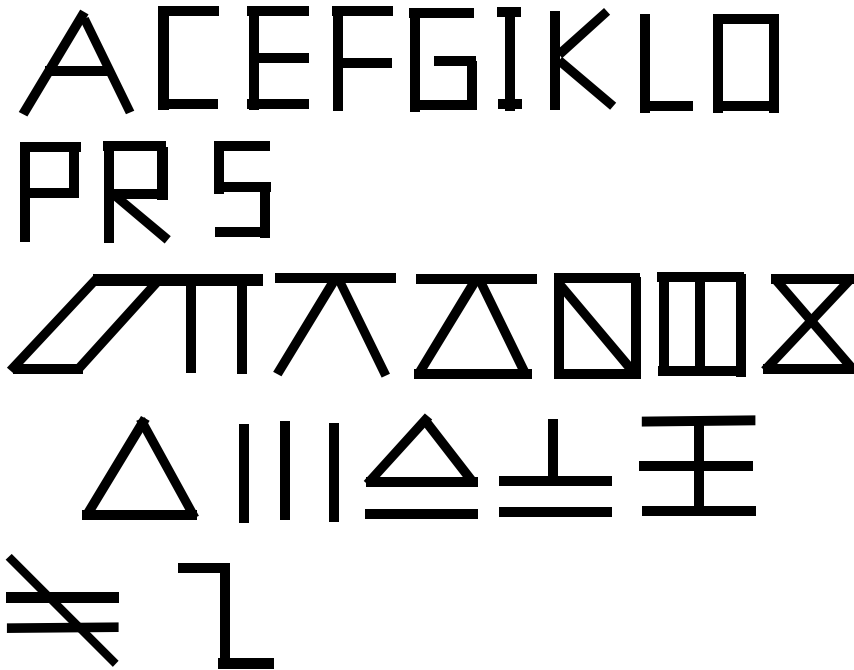


APPENDIX A1

CANVASTARGET INFORMATION

Canvas targets shall be white or orange and made of strips 0.5 meters wide and the total overall size shall be between 3 and 4 meters.

Permitted letters and signs:



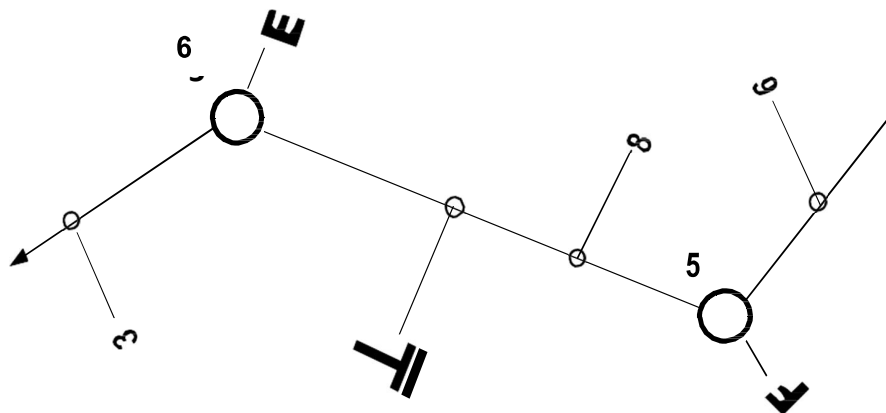
When the letters are used, they shall be located so as to be seen correctly in the direction of the flight inbound to the target.

The shapes of the signs should be sketched by the pilot on his map, as seen.

MARKING OF THE MAP

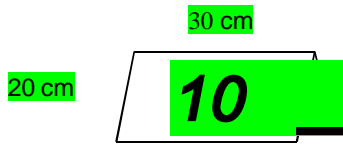
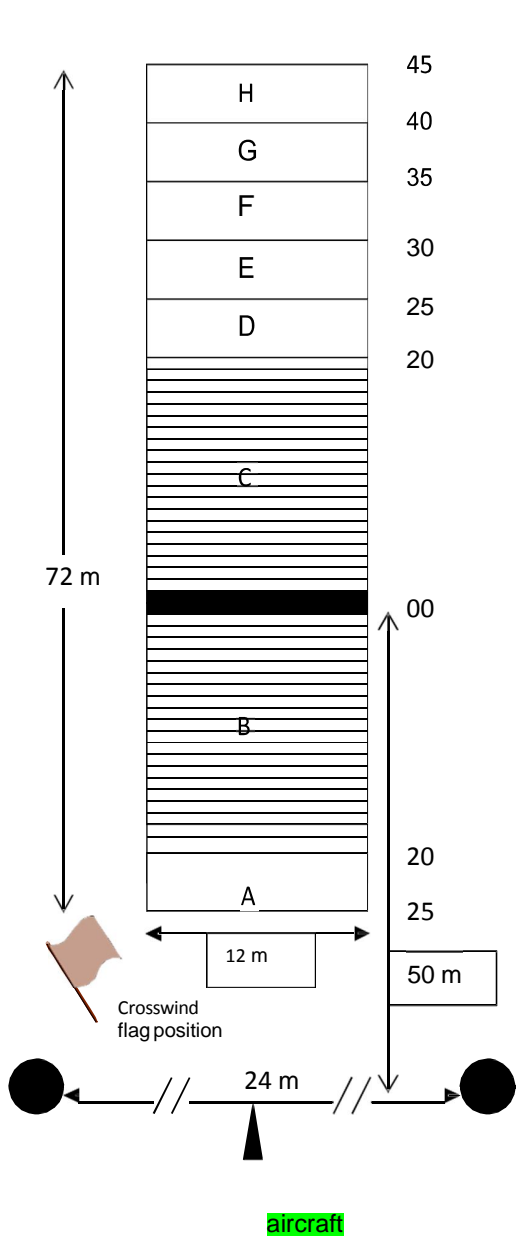
Marking of photographs, signs and letters has to be done correctly to avoid difficulties during debriefing. They should be marked as seen. The position has to be marked by a pinprick or a clear dot and accompanied by a line with the target next to it.

There should be no doubt at all about the exact position.



APPENDIX A2

RUNWAY MARKING INFORMATION



Markers.

On both sides of the runway, to assist judges and video crew, there shall be runway markers at each 5-meter area till +20 area opposite the correct metre area.

Markers shall be placed per 5-metre area beyond the -20 and +20 metres area in the middle of the correct area

The landing strip.

Each metre must be marked by paint or chalk (on grass) from -20 to +20 metre area, and outside that zone every 5 metre area (see picture). The zero area must be clearly marked.

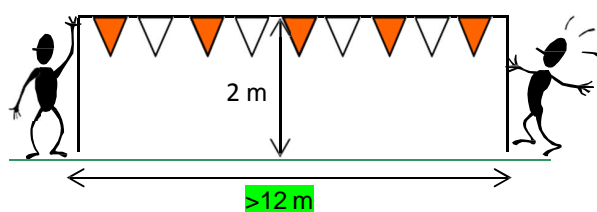
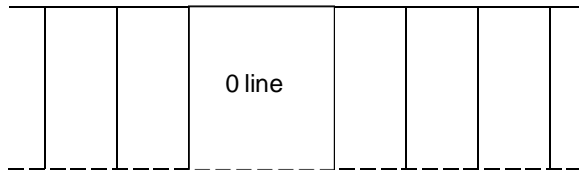
Approach markers.

Two markers will be clearly positioned 24 metres apart at the 50 metres in front of the middle of the zero area. Aircraft have to approach in between these markers on their final approach path. Approaching from outside may be considered as dangerous

Zero area specification

There is an imaginary zero line. The zero area is per full metre on each side of this line. Outside the zero area scoring will be done per one meter area till the -20 and +20 meter area and beyond this per 5 meters till the limit of the landing strip

-3 -2 -1 0 +1 +2 +3



Obstacle specification

This is positioned 50 meters in front of the middle of zero area.

Thin cotton or nylon line with cloth flags in colour

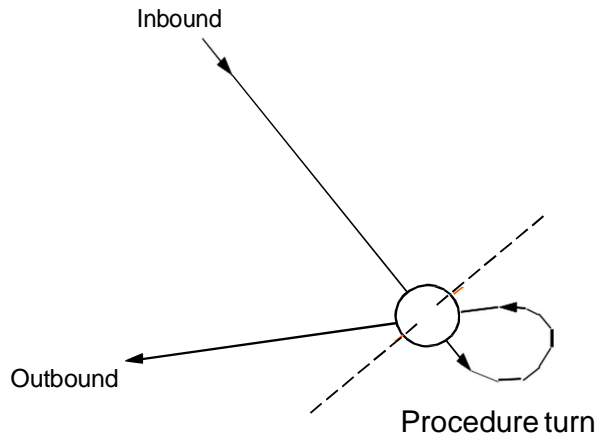
Do not tie the line to poles!

It should slip off easily.

The height (2 meters) should be checked at the runway centre line.

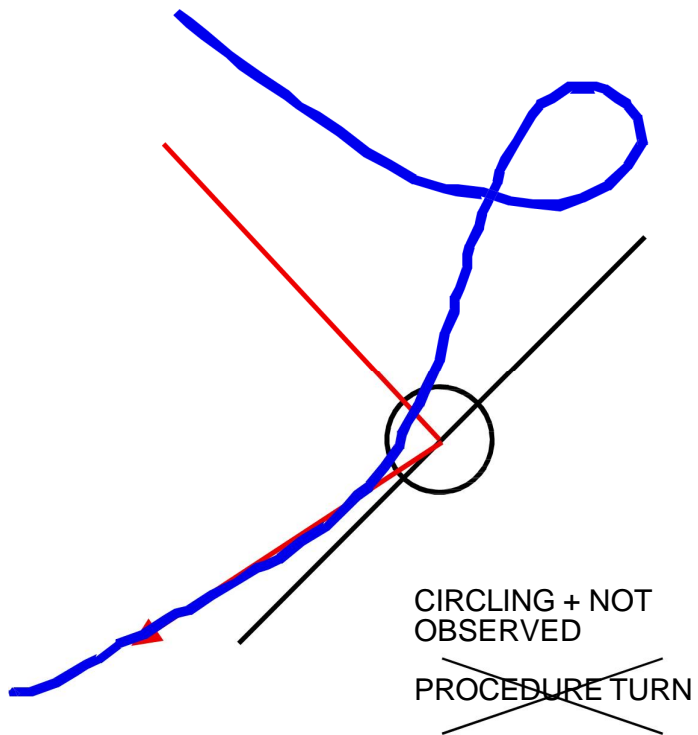
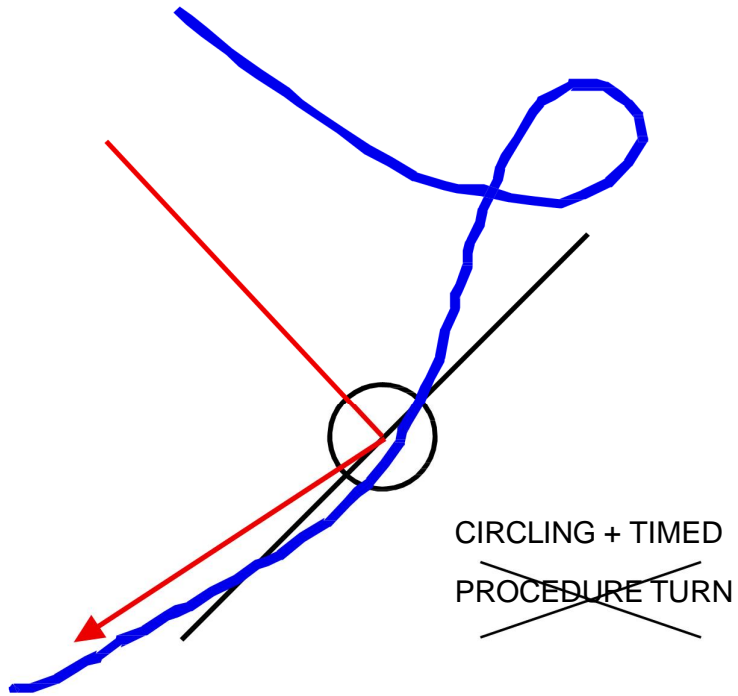
APPENDIX A3

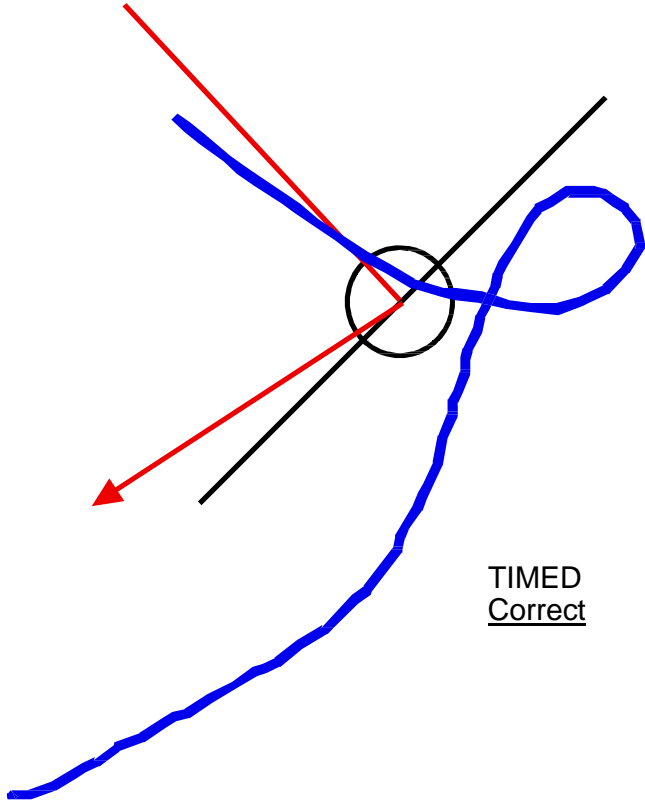
PROCEDURE TURN INFORMATION



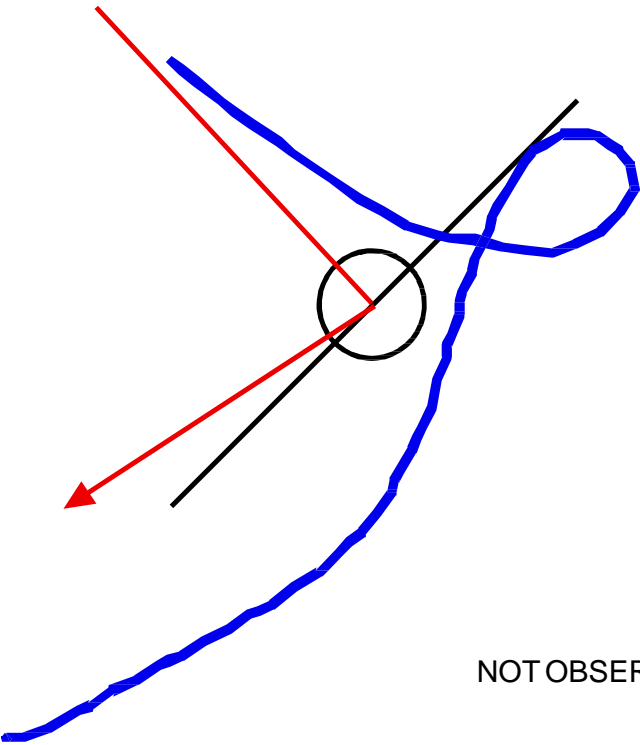
A procedure turn is mandatory at a turn point (TP) where the change of track is more than 90 degrees

Timing is always measured on the inbound track at the TP.



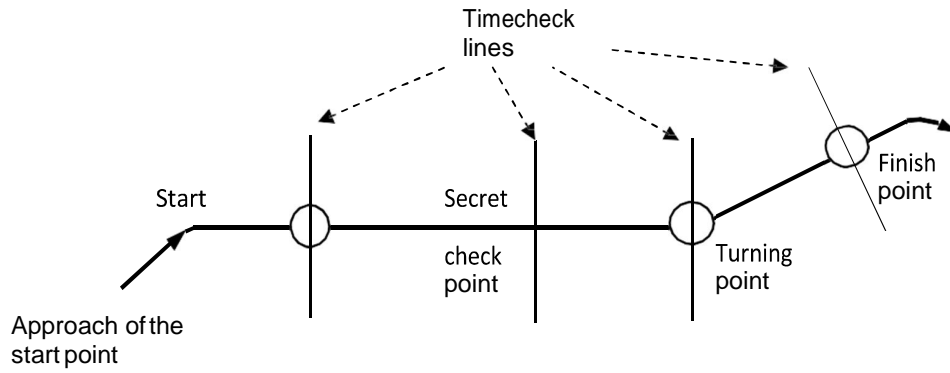


TIMED
Correct



NOT OBSERVED

TRACK AND TIMING INFORMATION



Timing is always is always on the inbound track at Start Point (SP), Secret Checkpoints, Turning Points (TP) and Finish Point (FP).
Inability to identify the competitor results in maximum timing penalties at each point.

APPENDIX A4

EXAMPLE

14th WPFC 2000

30 July- 5 August 2000

Flight plan Nav.test No 2

Start No... **1**.....

Name... **Alan Best**.....Country... **New Zealand**...

Aircraft reg... **SE-ETT**.....Type... **C 150**.....

Declared TAS..... **70**.....kts

Wind... **270**.....degrees..... **15**.....kts

							Time schedule			
							Hrs	Min	Sec	
Leg No	Leg dist NM	True track deg	True heading deg	Ground speed kts	Time on leg		Take off	09	00	00
					min	sec	Start p.	09	10	00
1	9.9						T.p. 1			
2	6.6						T.p. 2			
3	7.8						T.p. 3			
4	10.8						T.p. 4			
5	14.0						T.p. 5			
6	12.4						T.p. 6			
One minute turn										
7	15.0						T.p. 7			
8	9.9						Finish p.			

Penalties + =

	Hrs	Min	Sec.
Flight plan given out..... (scheduled)			
Flight plan returned.....			
Difference in time			
Leaving room			

APPENDIX A5

EXAMPLE

Debriefing sheet

Navigation test

No 2

Start no.....

Name.....Country.....

Flight Planning

Heading error exceeding +- 2°per full degree 2	Max
Time error exceeding +- 5 sec per full second 1	200
Late delivery of flight plan >30 min.....	50
Leaving the flight planning room after 60 min.....	100
Take off: rolling before or after the 60 sec time slot.....	200
Late submission of competition map (after 5 min limit).....	100

P1	P2	P3	P4	P5	P6	P7	P8

Start	Tp1	Tp2	Tp3	Tp4	Tp5	Tp6	Tp7	Finish

Date...00/08/

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11

Signed.....
Pilot

- Failure to carry out prescribed procedure turn each time 200 #
- Flying below the minimum altitude each time 500 #
- Circling or backtracking each time 200 #
- Not following arrival/departure routes 200 #
- Late arrival at downwind/holding pattern 200 #

B. ORGANISATION RULES

B.1 GENERAL

B.1.1 Before any National Aero Club (NAC) offers to host a continental or world championship, that NAC must be able to satisfy the FAI on the following points:

B.1.1.1 That sufficient experience in the discipline exists in the host country to ensure a high standard.

B.1.1.2 That there should be at least 3 officials experienced in the discipline and able to provide their capabilities of organizing the championship.

B.1.2 The host NAC must be able to provide an airfield with limited traffic. An airfield with bilingual air traffic controlling during practice or any championship must be avoided.

B.1.3 In selecting a venue, the host NAC must be able to provide reasonable accommodation close to the airfield. (see also B 4.1)

B.1.4 The host NAC should develop a close working relationship at an early stage with the president of the jury and the international chief judge.

B.1.5 The host NAC must follow the rules and regulations.
If any doubts exist as to interpretation the rules and regulations the advice of the international chief judge and/or the president of the jury should be sought.

B.1.6 The host NAC must not run other competitions at the same time, on the same airfield or competition area.

B.1.7 Practice for display, demonstrations, etc. must not interfere with competition practice schedule, which must have priority.

B.1.8 Any display, show, ~~or~~ demonstration ~~or other activities should must must~~ not interfere with the competition.

B.1.8

B.1.9 The host NAC will take adequate insurance coverage for all competitors as required by the national law. In any case all international personnel (i.e. jury, judges and support personnel) must be insured by the organizer against third party legal liability risk.

B.1.10 The host NAC will provide figures of competition expenses in accordance with Appendix B1 to GAC together with the Local Rules.

B.1.11 To ensure that the organizers of world and continental flight championships abide by the appropriate rules and regulations and fulfil the commitments made by the organizers, an amount equal to the entry fee for five (5) crews will be given to the president of the jury prior to the start of competition, to be held by him until the jury certifies at the close of the competition that the event has been conducted correctly, the complete results have been prepared for transmission to FAI headquarters, and the sanction fee has been transferred to FAI. At this time the amount withheld shall be returned to the organizers. Should the jury determine for any reason that the competition was not properly conducted, the total amount will be forwarded immediately by the president of the jury to FAI headquarters, to be held there until the matter can be reviewed at the next plenary meeting of GAC.

B.2 VENUE

B.2.1 It is necessary when considering the location of the championship to give careful consideration to the type of terrain readily available around possible airfields. It is ideal to arrange for a mixed terrain of flat and high ground and to select an area that is neither too easy nor too difficult to navigate over. Further reduction of possible sites will be appropriate after studying the aeronautical charts

for each aerodrome so as to ensure that a competition course can be laid out on one chart without the expense of having special charts made for an event.

- B.2.2** Consideration should be given to the general air traffic flow within the competition area, and to control zones, prohibited areas and danger areas, which exist and would hinder the setting of a competition navigation course.
- B.2.3** Reference should be made to the facilities offered on each aerodrome, including those of air traffic control, firefighting and ambulance service, availability of fuel, hangar space, etc.
- B.2.4** It is of advantage if the airfield enjoys either a restaurant or adequate clubhouse facilities for competitors and spectators.
- B.2.5** The airfield should not be located more than 30 minutes travel time from the residential accommodation that will be provided for the participants.
- B.2.6** The airfield should be available for formal familiarization and practice in the week prior to the championship, during which time the airfield will be run under strict local rules to which all participants will be expected to adhere. There must be no charge for practice landings.
- B.2.7** The airfield should be provided with concrete or hard surface runways wherever possible. An airfield where the runways do not have a uniform surface at least 15 meters wide is not acceptable.
- B.2.8** When selecting the time frame for the championship the weather history within the area of the competition should be considered.
- B.2.9** Special attention should be given to the placing and size of the flight planning/briefing room. For precision competitions the room should have ample space to hold sufficient tables with adequate separation between them when the pilots start at 3 - 5 minute intervals.

B.2.10 Telephone and telefax and Wi-Fi and internet access facilities should be available at the airfield and accommodation. If the computer room is not established at the airfield, internet service must be available between airfield (debriefing) and computer room.

B.3 TRANSPORT

- B.3.1** If the airfield is not within walking distance from the accommodation, it will be necessary for the competition management to arrange suitable transportation. Normally a regular coach service will be necessary. Times of coaches should be published and adhered to.
- B.3.2** It is recommended that for social functions in the evening transportation by coach is provided for all. This avoids the necessity of separate briefings regarding the location of functions together with their associated problems.
- B.3.3** The International Chief Judge and the jury must each be provided with their own independent transportation.

B.4 ACCOMMODATION

- B.4.1** It is convenient but not vital for all participants to be housed close together. This reduces many problems for the organizer and for competitors and "streamlines" the overall organization; however, there should be always two accommodations available, one higher price and one lower price hotel.
- B.4.2** In order to find the most suitable accommodation to an acceptable price the organizer should try to get at an early stage the approximate numbers of people planning to attend the competition, i.e.:
 - Number of competitors, (including accompanying family),
 - International support personnel (team chief, engineers, etc.)
 - Jury, international judges
 - National judges and national support personnel, etc.

B.4.3 Consideration should be given to "package deals" to include all meals during competition. During the practice phase accommodation, should be available on a bed- and-breakfast basis, providing the opportunity for participants to arrange their own training, sightseeing and meals.

B.4.4 The competition management must be sympathetic to competitor rest requirements. It is essential that absolute quiet is assured between the hours of 22.30 and 07.00 to permit sensible sleep periods.

B.5 AIRCRAFT HIRE

B.5.1 The host NAC must be prepared to initiate arrangements for the hire of aircraft for competitors unable to bring their own competition aircraft.

B.5.2 Competitors planning to avail themselves of this service should initiate a request at least six months before the event, specifying type, length of hire, hours to be flown, etc. They should also furnish details of their own licenses and experience.

~~**B.5.3** Aircraft for hire should be checked by the host NAC and the following minimum standard guaranteed:~~

~~a) Air speed indicator~~

~~b) Altimeter~~

~~c) Magnetic compass and directional gyro~~

~~d) Turn and bank indicator and/or artificial horizon~~

~~e) VHF/COM equipment with all appropriate frequencies~~

~~f) Third party legal liability insurance to the level required in the host country.~~

Aircraft for hire should be checked by the host NAC and fulfil the requirements according country rules.

Magnetic compass and directional gyro / or equivalent equipment must be installed.

B.6 TRAINING PRACTICE

B.6.1 Practice and familiarization of the competition area should be available in the week prior to the championship. There should be no additional charges for landings.

B.6.2 Navigation practice should be able to take place without affecting the normal airfield routine.

B.6.3 Landing practice for each competitor may be limited to not more than 2 landings after a navigation practice. Landing practice may be limited in the week prior to the competition week. Each competitor should be allowed 4 landings, in practice, in the competition week and prior to the start of the championship. An appropriate schedule will be prepared by the competition director.

B.6.4 During practice, it is essential that airfield routine regulations be observed. It is also necessary for other non-competitive traffic to use the airfield and therefore strict R/T control will be necessary.

B.6.5 Daily flying should be restricted to 08.00 - 18.00.

B.6.6 Training practice must not be interrupted for display or show practice.

B.6.7 An example of the flight planning form to be used in the competition is attached as Appendix A4.

B.6.8 The NAC must provide an exact example of the competition map, together with the explanation of all symbols used on the map, the flight planning form and the computer printout to every competitor at least one month before the competition. Maps covering all the area of navigation tests must be available during the Training Practice week.

B.6.9 The host NAC must prepare 3 training routes with 8 photos targets for each route of the same level as competition routes and free of charge. A result sheet with coordinates of turn points and photos targets must be included with each

route.

B.6.10 Under no circumstances shall the same aircraft be used in the competition by more than two competing pilots.

B.6.11 An official landing practice should be organized in order to run a final check of organization, staff and systems involved in judging of landings. The two landings per pilot are required: Obstacle Landing and Idle Landing without Flaps.

B.7 BRIEFINGS

B.7.1 Full briefings must be attended by all concerned.

B.7.2 The opening briefing must be attended by the competitors, jury, judges, operational officials and team managers; the object being to explain the running of the competition, the program to be adhered to including the social program, channels of communication, and the basis of judging.

Specific issues concerning the use of flight data recording equipment must be covered during the opening briefing.

B.7.3 The competitors' briefing must be attended by the competitors, jury, judges, operational officials and team managers; the object being to define operating procedures.

B.7.4 The daily briefing must be attended the competitors and the team managers; the object being to define the day's program.

B.7.5 Met briefing should be attended by the competitors and the team managers.

B.7.6 Landing briefing must be attended by jury, judges, team managers and all competitors; the object being to define procedures, circuit discipline, signals, etc.

B.7.7 At the beginning of the championship a judges briefing will be given by the international chief judge, attended by all international judges and the local chief judge.

B.8 METEOROLOGY

B.8.1 A competent meteorologist shall be available for the weather briefings.

B.8.2 The meteorologist should be familiar with the local weather patterns and familiar with VFR flying.

B.8.3 Forecasts must be published prior to the take-off for each navigation group. Forecasts shall be published in clear written English, NOT CODE.

B.8.4 General forecasts will be displayed on a convenient notice board outside the flight planning room before the first navigational briefing begins, and will be updated.

B.8.5 The weather minima for the navigation tests will not be less than 5 kilometers visibility with the cloud base 1000' above ground level of the highest point of the course including the highest point of the course. In the event that any part of the navigation course is within controlled airspace, consent must be given for the minimum to apply. above ground level of the highest point of the course. In the event that any part of the navigation course is within controlled airspace, consent must be given for the minimum to apply.

~~B.8.6~~ **B.8.5**

B.8.6

B.8.7 Throughout the navigation test there should be an aircraft available to check deterioration of weather. Either a member of the jury or the international chief judge will accompany the aircraft during any check flight.

B.8.8 ~~B.8.7~~ The minimum cloud base for power landings will be 500' AGL and power off landings 1000' AGL.

In both cases the visibility should be at least 1.5 kilometres. If the minima are below those legally required in the host country, then the host country's rules must be applied.

B.8.9 If the wind speed near the ground is more than 25 kts, gusts included, flying will be stopped. If the crosswind component, gusts included, exceeds the lowest published maximum demonstrated

B.8.8

crosswind or a stated limit, flying will be stopped on the runway in use. The maximum crosswind component for the competition will be announced before the competition starts.

B.8.10 **B.8.9** Crosswind condition must be declared, when the crosswind component is 8 knots or more. Wind direction and speed shall be measured close to the zero line at 2 meters high by suitable equipment and must be recorded at the touchdown time of each aircraft. The chief landing judge will decide when crosswind condition exist. Competitors will be advised by radio.

B.9 NAVIGATION AND SPECIAL OBSERVATION TEST

B.9.1 The organizer must prepare and submit a minimum of 3 complete routes.

B.9.2 A single map will be used for the navigation test. Maps glued together are not permitted. Details of the map should include all roads and railways in normal use, large lakes, rivers and creeks, color coded and/or elevation contours, towns and villages, etc. It should also contain certain spot heights and location of high obstacles.

B.9.3 In selecting a course for the navigation event, the route planner should give thought to the type of terrain available to him to ensure that a mixture is within the set route. Routes should not be made easy and should avoid, wherever possible, following motorways or long stretches of river or rail tracks. A course that is either predominantly high ground or predominantly flat ground should be avoided whenever possible.

B.9.4 The route planner must consider the following points:

- Positions of SP, TPs, FP and SCs must be verified by Google Earth or similar programs, working on WGS 84.
- Each SC must be a well-defined feature on the map, position of SCs should be measured on the Competition map in the following way: First, measure the total length of the leg; Second, for each SC on this leg, measure the distance from the TP origin of the relevant leg.
- SP and FP should be at least 2 nautical miles apart from each other and positioned to accommodate safe departure and arrival routes to the relevant airfield and so that the aircraft don't have to cross the start line or finish line on their way from and to the airfield.
- All Checkpoints have to be finally established before the competition starts.
- The organizer must provide the number of computers and printers deemed necessary by the international chief judge.

B.9.5 The start and finish points must be clearly marked or defined. Departure and arrival charts shall be given to competitors and indicate the start and finish points. Turn points and secret checkpoints shall not be located in open fields, widely visible. Positions in bushes, forests or among buildings are preferable. Vehicles should be hidden or parked in normal parking places and the general public should be kept away from checkpoints.

B.9.6 A master clock shall be placed outside the flight planning room and will be GPS time.

Photo targets will be taken from the air, in colour, taken on track but not more than 100 metres left of the centreline in the direction of the line of flight. Photos must be taken in direction of flight and slightly to the left, but not more than 45° to the left. They will be neither too old nor taken in different climatic conditions than those prevailing at the season of the competition. They shall be

taken with a 50 to 75 mm lens for 24 x 36 mm format at an altitude between 800-1000 feet AGL. To enable observation of photo and canvas targets, there must be an obstacle free area of at least 45° on either side of the track measured in the vertical plane, and the photo targets shall be clearly visible to a competitor from not less than 600 meters before passing them at an altitude of 1000 ft. AGL

Canvas targets will be located on the centreline of the track or within 100 meters to the left of the track centreline. These are not to be placed in the centre of wide-open spaces, but close to woods, hedges and other obstacles. They shall be clearly visible to a competitor from not less than 600 meters before passing them at an altitude of 1000 AGL.

Canvas targets both along the track and at turning points may be changed at intervals to reduce the effectiveness of any attempt to cheat between competitors of the same nationality.

B.9.7 Subject to the number of competitors taking part, there should be two or three time groups with a break of about 60 minutes if 2 groups or 30 minutes if 3 groups between each group. Separate weather briefings will be given to each group and time separation between the pilots should be 3-5 minutes, with the faster aircraft being dispatched first. Two competitors of the same country should not be following each other, there should be at least one other country in between.

B.9.8 The competition management will define the radio frequency to be selected for the navigation event. Competitors may be issued other frequencies to be used in the case of emergency.

Competitors should be advised at briefing that use of other frequencies will result in disqualification. They should also be advised of the possibility that the flight will be scanned by radar hence it will be essential for a listening watch to be kept on the prescribed frequency at all times.

B.9.9 60 minutes after receiving his flight instructions, the competitor will be required to depart from the flight planning room and will be escorted to his aircraft. Take-off will be 75 minutes after the start of flight planning. Under no circumstances will he be permitted to communicate with any other person apart from the competition management and it must be made clear to him that his start-up time, taxi and readiness for take-off at the prescribed time is entirely his responsibility. In the event of a delayed start to a navigation flight by more than 1 minute, by reason of mechanical or ATC failure, the competitor will be rescheduled to fly later.

~~**B.9.10** On return from the competition, the competitor will be taken to a security area. The competitor will be debriefed by members of the competition management who will examine his map. At this time the competitor may indicate all the targets he has seen and describe any feature in order to reduce the number of "complaints". Scoring will then take place. He will remain in the security area until the last competitor has entered the flight planning room. He must be further warned that any attempt whatsoever to communicate with anybody outside the security area following the completion of his navigation exercise or approaching the flight planning room, the apron or any competition aircraft prior to the time the last competitor has taken off on his navigational test, will result in his disqualification. Security area can be arranged by the organizer, so that pilots will be quantined before their flight. In that case the quantine period will begin when the first competitor leaves the flight planning room.~~

Security area has to be arranged by the organizer, so that pilots will be quarantined before their flight. The quarantine period starts when the first competitor leaves the flight planning room.

On return from the competition, the competitor will be taken to the debriefing area. The competitor will be debriefed by members of the competition management who will examine the map. At this time the competitor may indicate all the targets he has seen and describe any feature in order to reduce the number of "complaints". Scoring will then take place.

Time (30 minutes) for complaints starts immediately after the debriefing. Complaints will be handled by the international chief judge (or a special assigned judge) as quick as possible. The result will be communicated to the competitor as fast as possible. If the competitor is not satisfied with the judgement, he can file a protest.

Time (30 minutes) for protests starts immediately after the communication of the result of the complaint, accompanied by the relevant protest fee.

After leaving the debriefing area, the competitor can not file a complaint or a protest anymore.

- B.9.11** If a competitor, by radio, reports deteriorating weather to the minima allowed, this should be checked immediately by a weather aircraft (see B.8.6). In addition, wherever possible, each turning point and secret checkpoint should be in communication with the competition management who will verify the pilot's report. A competitor asking for assistance automatically terminates his navigation flight at that point. The competition management may not recall any competitor from his navigation flight.
- B.9.12** The competition director will not, without the express consent of the international chief judge and the international jury, permit any person other than observation crews, the international chief judge or the international jury, to have knowledge of or visit any part of the navigation course until the navigation test is concluded.
- B.9.13** Prior to each navigation test a check flight should be made to ensure that all targets, pictures, officials and judges are in the correct position. The check flight should include at least two members of the jury and/or the international chief judge accompanied by an official familiar with the course.

B.10 LANDINGS

- B.10.1** In locating the position of the landing strip on the runway, consideration should be given to the position of the Judges, video camera operators and spectators. Neither judges nor video camera operators should be looking into the sun.
- Spectators, conditions permitting, should not be allowed nearer than 30 meters to the landing strip. Wherever possible, the spectator area should be fenced off for safety reasons. Team managers only will be allowed to observe the landings from a position 15 meters opposite the touchdown line if safety conditions and aerodrome regulations so permit.
- B.10.2** Aircraft ground movements and traffic patterns must be carefully planned and briefed to the pilots. Useful aids are maps or sketches with detailed information.
- B.10.3** Suitable marshals and ground controllers should be located in prominent positions, the ground controller being in direct communication with the competition director.
- B.10.4** The competition director determines the starting order for the landing competition. His decision is based on reasons such as flight safety.
- B.10.5** Circumstances and capability permitting, the competition director is allowed to change this order for promotional purposes.
- B.10.6** With good management, it is possible to have 3 - 4 competitive aircraft active in the circuit at any one time.
- B.10.7** To provide a steady flow it will be necessary to judge approximately 30 landings per hour. A 10-minute break session for the judges in each hour and a 15-minute break session between each type of landing are advised.
- B.10.8** Consideration should be given to a system of lights or ground signals on the final stages of approach to signify by either red or green lights that the competitor is cleared to land or he must go around again.
- B.10.9** It is important that the zero area is clearly marked. The jury will check the visibility of all markers prior to the landing competition.
- B.10.10** There should be clear distance markers along the runway.
Landing officials should be placed about 5 meters outside the distance markers, and be prepared to run along these markers to define the touchdown point. One landing official should be permanently stationed opposite the zero line.
- B.10.11** Only the international chief judge will be responsible for communicating the results of the competitor's landing to the Secretary for entering into the competitor's record sheet in English, being the competition language.
- B.10.12** Video recording of landings must be arranged as they are vital to enable the jury to come to a decision, on a protest, based on factual evidence. The video crew should comprise at least two hand-held video cameras located about 10 meters from the runway and positioned about 20 meters before and after the "0" line. Video crews must be trained before the competition to provide the best camera location and viewing angle. A continuous following of the wheels, before, during and after the touchdown, is essential and runway markings must be visible on the videotape to enable final judgment on touchdown point and landing techniques. The video recorders must provide at least one hundred frames per second (100 fps) recording.
- B.10.13** All wheels, on all participating aircraft, shall be painted with white tire marks on both sides of all wheels. Spats will be removed from all main wheels prior to the beginning of the competition.

B.10.14 The international chief judge will be provided with wind measuring equipment, which has to be placed nearby the zero line at a minimum height of 2 meters above ground. The wind direction and wind speed must be recorded at the touchdown time of each aircraft. This will provide factual evidence in the case of one-wheel landings, which are allowed only when the international chief judge has declared a crosswind.

B.10.15 The video playback must be displayed on a TV set with a minimum 21" screen. The equipment must include the facility both of "freezing" and advancing frame-by-frame without picture interference.

B.10.16 The host nation will ensure that a reserved area is available, opposite the touchdown line, for team managers only. It will be placed not less than 15 meters from the edge of the runway (see B.10.1).

B.10.17 An electronic recording system previously approved by GAC must be used. It must be in conjunction with visual judging. Only in the event of failure of the electronic recording system will visual judging will be used for that group.

B.11 INTERNATIONAL JUDGES AND OPERATIONAL OFFICIALS

B.11.1 The special rules which are different to these rules must be made clear at the initial briefing.

B.11.2 The landing competition will be run under the control of the international chief judge supported by the official responsible for landings. Each participating country will be invited to provide international judges to officiate under the chairmanship of the International Chief Judge.

B.11.3 The international chief judge will be responsible for the placing of the individual judges and for the recording of the results of each competitor. The competition director will not participate in judging the landings in any way whatsoever.

Judging comments must be made in the competition language (English).

B.11.4 In the event of the judges not being able to reach a definite decision regarding any landing, then the international chief judge should make the final decision. In the case of an abnormal landing the international chief judge must consult at least two other international judges.

B.11.5 It should be made perfectly clear that although the jury will be present in the same locality and making their own notes, these are only usable as supporting evidence, should they be required to decide a protest. At no time will they seek to influence any decision made by the judges. However, the president of the jury may, if the opportunity occurs, offer advice to the international chief judge if requested.

B.11.6 Para B.11.5 above does not prevent the jury disqualifying any competitor who is guilty of dangerous flying.

B.11.7 The international chief judge should be present at the competition site at least one week before the competition starts. He should be presented with all necessary documents (routes, checkpoints, pictures, places for targets, distances) and check them thoroughly before the competition starts. The international chief judge and the route planner should make check rides to check correct positions of pictures, checkpoints and targets.

B.12 JURY

- B.12.1** The international jury is commissioned by FAI to observe that the event is properly organized and run. The jury should be comprised of qualified experts in the sport.
- B.12.2** The president of the jury must be privy to all aspects of the championships and be kept fully informed.
- B.12.3** The jury has access at all times to the competition director and may advise upon organizational problems. They are to be allowed to inspect any part of the facilities including the course. They will be provided with master maps at the start of the navigation event.
- B.12.4** The jury should be acquainted with the details of the navigation test.
- B.12.5** The jury will be provided with an office of adequate size to hear protests. The office will be kept locked at all times in the absence of the jury. The room will, where appropriate, contain a TV, videocassette recorder and monitor.
- B.12.6** The obligation for organizing an event is that the host nation, the jury and international chief judge are available to ensure that the event is run in accordance with the rules. Neither the jury nor the international chief judge is responsible for any organizational problems.
- B.12.7** The Jury, in consultation with the international chief judge has the right to authorize the use of technical equipment after suitable testing at the appropriate level.

B.13 RESULTS

- B.13.1** A master map showing the route with coordinates of turn points, targets and photographs must be published after debriefing of the last competitor. (This information may be also be published by electronic devices).
- B.13.2** A preliminary result sheet should be handed over to each competitor at end of debriefing.
- B.13.3** It should be the aim of the competition director to post the results at the earliest possible time after all protests have been investigated, amendments made and the results ratified by the international chief judge and jury.
- B.13.4** Results will be displayed on an easily accessible result board. However, it is also necessary for each team manager to receive a printout of the results.
- B.13.5** All final results together with all mark sheets, flight plans and photographs will be returned to each competitor as soon as results have been finalized. If necessary, the competition director will send these to the National Aero Club immediately after the championship.

B.14 PRIZES AND PRIZE-GIVING

- B.14.1** The usual awards approved by FAI will be made following ratification of the results by the international chief judge and jury.
- B.14.2** The host Aero Club should endeavor to provide additional prizes and souvenir gifts to the competitors.
- B.14.3** Awards should be made at the final banquet or at the closing function of the championship.

B.14.4 The competition director must allow sufficient time (6 hours minimum) between the commencement of hearings on protests and the start of the final banquet. See also protests.

B.14.5 List of trophies

B.14.5.1 World championships

- City of Nottingham Trophy	World Champion
- Canada Trophy	Landing Champion
- Royal Aero Club of the United Kingdom Sword	Navigation Champion
- Ottley Trophy	Team Champion
- New Zealand Trophy	Landing Team Champions
- Air BP-challenge cup	Best low experienced pilot (*)

- Argentina Trophy	Best Woman Pilot
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(*) "Low experienced pilot" is defined as a pilot with a maximum of ~~300~~ 500 flying hour's total time on Single Engine Aircraft.

B.14.5.2 European championships

Saab Scania Trophy	Team Champion
Swedair Trophy	European Champion

APPENDIX B1

COMPETITION BUDGET

1. Accommodation (including breakfast)

	single	double	days
• Hotel			
• Low price accommodation			

2. Meals

	hotel	airfield	days
• Lunch			
• Dinner			

3. Opening Ceremony

	price
• Buffet	
• Entertainment	
• Others	

4. Closing Ceremony

	price
• Buffet	
• Entertainment	
• Others	

5. Personal Costs, born by the Organizer

		total
• Jury		
• International Chief Judge	3	
• International Judges	1	
• National Officials	4	

6. Preparation of Competition

Flight time (Photos, route check)

Material:

	number	price	total
• Photos			
• Envelopes			
• Task sheets			
• Maps			

7. Support from Sponsors and “others”

7. Exchange rate Local Currency to €

C. LOCAL REGULATIONS

C 1. INTRODUCTION

C 2. ORGANIZER

C 3. PLACE

C 4. DATES

C 5. ENTRIES

Completed entry forms shall be submitted by the competitor's NAC and shall be sent to:

to arrive by.....together with the entry fee. Entries received after this date may be accepted if there are vacancies, at the discretion of the organizer. If a NAC sends a final entry but fails to pay the required entry fee, that NAC shall lose its right to participate in subsequent General Aviation Commission events until the fee is paid.

C 6. ENTRY FEE

C 6.1 The entry fee for each category is set out below:

- a) for the aircraft: NONE
- b) for each Pilot.
- c) for each additional member of the team (team manager, engineers, etc.)
- d) for international judges and judge observers: 50% of b)

Additional information concerning the quality of the hotel, charge for single and double bed rooms should be added.

The entry fee must be paid by cheque for the amount made out to....., or by a bank transfer to:.....

C 6.2 Each entry form is regarded as accepted only when it is acknowledged by the Organizer; the acknowledgement will only be given when the entry fee has been received by the Organizer.

C 6.3 Entry fees include transport to and from hotels, accommodation, all meals and Prize Giving banquet; for competitors competition maps are also included.

C 6.4 Entries may be cancelled before the final entry date without penalty.

After the final entry date, cancellation will be penalized by withholding 10% of the entry fee for each crew.

Cancellation later than 15 days before the beginning of the event will be penalized by withholding a maximum of 50% of the entry fee.

C 7. TEAMMEMBERS

C 7.1 Each national Aero club may nominate a maximum of 5 named competitors to be scored within the championship. Additional competitors may be nominated, provided that the maximum number of competitors will be not exceeded. These additional competitors will not be taken into account for final team rankings .

C 8. AIRCRAFT AND INSURANCE

C 8.1 Aircraft

C 8.2 Insurance

C 9. ARRIVALS

C 10. LANGUAGE

C 11. BRIEFINGS

C 12. SPECIFIC RULES

C 13. COMPETITION MAP

C 14. DOPING CONTROL

C 15. CORRESPONDENCE AND COMMUNICATION

D. JUDGES AND JURY

D.1 GENERAL

D.1.1 The General Section of the Sporting Code (4.3.2) specifies that the international jury must have a thorough knowledge of both the Sporting Code and the Rules and Regulations governing the event. 4.3.3 requires International Judges to have detailed knowledge of the Rules and Regulations of the Sport concerned.

D.1.2 The General Section of the Sporting Code specifies that the international jury (4.3.2) and the International Chief Judge (4.3.3) shall be appointed by the commission concerned with the discipline (GAC).

D.1.3 In the event that an appointed jury member or the international chief judge is unable to take up his appointment, he must inform through his NAC, at the earliest possible time, the FAI/GAC, the organizing NAC and the president of the jury. A replacement will be appointed by the president of GAC following consultation with the chairman of the sub-committee concerned and the organizing NAC.

D.2 INTERNATIONAL JURY

GAC Championships will have a three members jury.

The jury has, by unanimous decision, the authority of FAI/GAC to provide an interpretation of the rules where a dispute over clarity has arisen during a competition. No precedents are thereby created and any subsequent amendment to the rules would be at the next GAC general conference. A team manager, with the international judge may approach the jury for such an interpretation of any rule which may not be clear.

D.2.1 SELECTION

D.2.1.1 Jury members must be selected from the appropriate approved list of International Jurors, which is held and updated by FAI/GAC.

Jury members for an event will be proposed by the organizing NAC to the Sub-committee concerned. The Sub-committee will evaluate the proposal and will give advice to GAC.

The GAC will then decide on the advice of the sub-committee and appoint the jury members

and the president of the jury for the event concerned.

D.2.1.2 In selecting jury members attention must .be given to the relevant sections of the Sporting Code particularly in respect to not having two members of the same nationality or the same nationality as the organizing NAC.

D.2.2 QUALIFICATION

D.2.2.1 international jurors must have had experience either as a jury observer, international judge, as chief judge or as competition director. The qualification as international judge and a working knowledge of English is compulsory.

D.2.2.2 The sub-committee concerned will propose to GAC to delete any person from the LIST OF INTERNATIONAL JURY MEMBERS if the individual was not acting as INTERNATIONAL JURY MEMBER or INTERNATIONAL JUDGE or Competition Director of International competitions within the last 5 years (or as a competitor in international competitions within the last 2 years).

D.2.2.3 Jury observers are only permitted to study the working of the jury, as directed by the president of the jury, without, in any way, interfering with decisions.

D.2.2.4 Requirements for being a jury observer:

- a) attendance at one World or Continental Championship as competitor.
- b) Experience of organizational work and judging at major national events.
- c) Appointment as an international judge.

D.2.2.5 Experience in the organizational work and judging is obtained by participating in at least three major national events either as a judge or assistant competition director.

D.2.2.6 The application form for appointment as an International Jury Member is attached as Appendix D1.

D.3 INTERNATIONAL JUDGES

A panel of international judges should be appointed whenever a competition contains subjective evaluation of performance (Sporting Code 4.3.3). International judges shall be appointed for all GAC events.

Each participating country has to send a minimum of one qualified international judge to an event defined according to the Sporting Code (4.1.2.2), if that country sends a team of three or more pilots. If no international judge is sent, the entry fee for the missing judge must be paid. The organizing NAC can offer to accept more than one international judge per country.

The panel of international judges will be led by an international chief judge according to the Sporting Code(4.3.3).

D.3.1 SELECTION

D.3.1.1 The international chief judge for an event will be proposed by the organizing NAC to the sub-committee concerned. The sub-committee will evaluate the proposal and will give advice to the GAC. The GAC will then decide on the proposal of the sub-committee and appoint the international chief judge for the event concerned.

D.3.1.2 The international chief judge shall not be of the same nationality as the organizing NAC according to the Sporting Code (4.3.5). The organizing NAC has the right to appoint an International Judge.

D.3.1.3 An international judge shall not be a competitor, nor a team manager, nor hold any position in

the organization of the championship.

- D.3.1.4** An international judge must be selected only from the approved list of international judges, which is held and updated by FAI/GAC.

D.3.2 QUALIFICATION

- D.3.2.1** Qualification for being an international chief judge shall require experience as an international judge during at least one World or Continental Championship, in addition to experience of organizational work and judging at major national events. An effort should be made to propose/select the international chief judge from the current list of international jury members.

- D.3.2.2** Any person should be deleted from the GAC's LIST OF INTERNATIONAL JUDGES if the individual was not acting as international judge or a competition director or a competing pilot within the last 6 years .

- D.3.2.3** An international judge shall have detailed knowledge of all the Rules and Regulations of the sport concerned according to the Sporting Code (4.3.2). A working knowledge of English is compulsory.

- D.3.2.4** International judges should have experience of judging at not less than three major national events, and should preferably also have had experience as a competitor. He/she shall have been the chief judge or competition director at not less than one major national event. Participation as judge observer can replace one other requirement.

- D.3.2.5** It is essential that NAC's organize training seminars for prospective judges in connection with national events. At such seminars, the relevant Rules and Regulations including the Sporting Code should be instructed in theory. The event itself then becomes a practical exercise.

- D.3.2.6** Application form for appointment as international judge is attached as Appendix D2.

D.4 CHAMPIONSHIP OFFICIALS

- D.4.1** The competition director shall be a qualified international judge . A working knowledge of English is compulsory.

- D.4.2** The route planner must have experience in the route planning of major national events, run according to these rules and regulations.

- D.4.3** The local chief judge must have a working knowledge of English. He/she should be a qualified international judge .

D.5 COSTS

- D.5.1** The cost of travel to and from the venue for the event, together with the cost of accommodation and meals during the required stay at the venue, shall be borne by the organizing NAC for the international jury and the international chief judge.

- D.5.2** The organizing NAC shall not be required to bear all the cost for the other international judges. It is recommended that airline tickets and accommodation be arranged at low rates. The organizing NAC shall not charge more than half of the regular entry fee for an international judge.

APPENDIX D1

APPLICATION FORM FOR APPOINTMENT AS INTERNATIONAL JURY MEMBER FOR PRECISION FLYING

Please print

Name.....

Address.....

.....

Tel.:..... Fax:.....

National AeroClub.....

Date of application:.....

Year approved as FAI International Judge

Requirements (any two of the following four items):

1. Participation as Jury Observer (World or Continental Championships, 1 only)

Year:..... Venue:.....

2. Participation as International Chief Judge (World or Continental Championships, 1 only)

Year:..... Venue:.....

3. Participation as Competition Director (World or Continental or National Championships under identical rules, 2 only)

Year:.....Venue:.....

Year:.....Venue:.....

4. Participation as a Competitor (in FAI Precision Flying Championships, 2 only)

Year:.....Venue:.....

Year:.....Venue:.....

I confirm that I have a detailed and thorough knowledge of the FAI Sporting Code and the current Rules and Regulations of the sport of Precision Flying.

Signed:.....

The National Aero Club of..... confirms, that the information given above is correct.

Date:..... Name of NAC Official (printed):..... Signature:.....

Position in NAC:.....NAC Address:

Tel.:.....

Fax:.....

APPENDIX D2

APPLICATION FORM FOR APPOINTMENT AS INTERNATIONAL JUDGE FOR RALLY AND PRECISION FLYING

Please print

Name:.....

Address:.....

.....

Tel.:..... Fax:.....

National Aero Club:..... Date of application:.....

Requirements (any two of the following four items):

1. Participation as Judge (National Championships, minimum of 3 required)

Year:..... Venue:.....

Year:..... Venue:.....

Year:..... Venue:.....

2. Participation as Chief Judge or Competition Director or Team manager (National Championships, minimum of 1 required)

Year:..... Venue:.....

3. Participation as Competitor (International Championships, minimum of 3 required)

Year:..... Venue:.....

Year:..... Venue:.....

Year:..... Venue:.....

4. Participation as a Judge Observer (International Championships minimum of 1 required)

Year:..... Venue:.....

I confirm that I have detailed and thorough knowledge of the Rules and Regulations of Precision and Rally Flying. I have a working knowledge of English.

Signed:.....

The National Aero Club of..... confirms, that the information given above is correct.

Date:..... Name of NAC official (printed):..... Signature:.....

Position in NAC:..... NAC Address:

Tel.:..... Fax:.....

E BIDS, FINAL DECISION AND APPROVAL OF LOCAL RULES FOR WORLD OR CONTINENTAL CHAMPIONSHIPS.

E.1 PRELIMINARY BID.

A preliminary bid (or letter of interest) to host a World or Continental Championship may be made to GAC at any time (unrestricted number of years) prior to the date when the planned event shall take place. This preliminary bid shall contain: Type of competition (Rally or Precision), if it is a World or Continental Championship and the year for the event. Other information is welcome but not necessary. The preliminary bid shall be noted in the minutes of the first GAC meeting after GAC has received the bid. The bidding NAC shall then confirm the bid at all coming GAC meetings (by letter or orally at the meeting) until the final bid is presented.

E.2 FINAL BID.

The final bid to host a World or Continental Championship, containing all required information, shall be sent to GAC no later than six (6) months prior to the GAC meeting when the decision will be made. The bid shall be forwarded to the Chairman of the relevant Sub-Committee. The relevant Sub-Committee shall examine all bids and shall make their recommendations to the GAC meeting.

E.3 CONTENTS IN A FINAL BID.

E.3.1 A final bid to host a World or Continental Championship shall contain the following information to be considered as valid:

- a) Name and address of the bidding National Aero Club (NAC).
- b) Name and address of organisation delegated by the NAC to organize the event (if any).
- c) Experience in organizing the relevant type of competition.
- d) Name, address and relevant experience of the Competition Director appointed by the organizer.
- e) The proposed dates of the event.
- f) The venue (name of city and airfield).
- g) Airfield infrastructure that will be available for the competition (runway length and condition, elevation, equipment's, buildings, facilities, ATC, other traffic, etc.).
The venue at the airfield must have the following facilities within walking distance of the apron where the competition aircraft are parked:
 1. Flightplanning/briefing room
 2. Team managers post boxes for information distribution
 3. Shop that sells drinks, and snacks
 4. Adequate toilet facilities.
 5. Covered area for pilots waiting to enter the flight planning room.
- h) Weather history of the area at the relevant time of the year (air temperature, wind, thunderstorms, etc.).
- i) Description of the landscape in the area to be used for navigation flights (flat land, hills or mountains, lakes or rivers, wooded area or open fields etc. in general terms).
- j) Type and scale of the competition map. (At least two samples of the map to be used in the competition must be appended to the bid.)
- k) Condition and any restrictions of airspace.
- l) Any special insurance requirements.
- m) Type of accommodation and distance between accommodation and airfield.
- n) An indication of the amount of the entry fee and what the entry fee includes.
- o) Any conditions concerning admission of participants to the country or location of the event.
- p) Signed by the President or the Secretary General of the National Aero Club who is a valid member of FAI.

E.4 FINAL DECISION ONBIDS.

- E.4.1 The GAC meeting will make the final decision of which NAC will be given the right to host a World or Continental Championship three (3) years prior to the date when the event shall take place.
- E.4.2 If there is no final and valid bid to host a particular championship three years in advance, the decision may be made at the meeting two (2) or even one (1) year prior to the event. *(To be able to make a decision only one year prior to the event, the final bid together with the proposed local rules shall be in the hands of the Chairman of the relevant Sub-Committee no later than six (6) months prior to the GAC meeting.)*

F LOCAL RULES

- F.1 Proposals for local rules for the Championship shall be sent to the Chairman of the relevant Sub-Committee no later than six (6) months prior to the GAC meeting that will approve the rules. The relevant Sub-Committee shall examine the proposed local rules and make their recommendations to the GAC meeting.
- F.2 The GAC meeting shall approve the Local Rules for a Championship at a regular GAC meeting held at least eight (8) months prior to the event.