

# **Amendment to Class Regulations M 2007**

## **E. Class Regulations**

### **1. Regulations for the class Mini Eco standard**

#### **1. Definition**

**Freely built model racing boats with electric underwater propeller propulsion (Hydro/Mono drive units and surface propeller propulsion that extend beyond the length of the Hull are not permitted) with a minimum weight of 0,5 kg. The model may not exceed a length of 430mm. Overhang from the start number plate are not measured.**

#### **1.1 Competition objective**

**On one of the in appendix B1 suitable triangular course and to achieve the highest possible number of rounds in the given time is to be driven. A minimum of 3 and a maximum of 8 models take part in each heat. Due to the lack of time the number of models per heat can be raised, after approval from the landing stage leader/referee and the section leader (or main referee) to 9. However, this should not be the norm.**

#### **1.1.1 Special construction specifications, regulations and checks in the class ECO Mini Standard.**

- (1) The size and art of the starting number plate can be found in the general rules and is valid for all classes.**
- (2) Only 7 cells 2/3 A according to industrial standard are permitted as an Electrical source for the Drive unit (Nickel Cadmium or Nickel Metal Hybrid) The single cell may not exceed a nominal voltage of 1.2 V. Only one set of batteries may be used per heat. The accumulator/propulsion pack must be easy accessible in case it needs to be checked. If a separate accumulator is used for the receiver then a noticeable switch is to be used to break the circuit.**
- (3) The used electric motor has restrictions. Only brushed motors of the type 400 with Ferro magnets and a 3-pole collector may be used. The engine may not be opened, however, timing is allowed from the outside. The use of steel rings is permitted, however, these must be removable. Engines with shaft brushes (that are accessible from the outside) are not permitted.**
- (4) The Drive unit must be able to be switched on and off by the radio control unit, or be fitted with a speed controller.**
- (5) The model is to be weighed off the water in a ready for launch condition. The total weight including the receiver and Drive unit accumulators plus their respective cables, connections and mounts, may not be less than 500g in the classes Mini ECO Standard. (incl. starting number plate).**

### **1.1.2 Competition rules**

- (1) The competition is carried out on a triangular course corresponding to the NAVIGA rules, with the exception of the turn buoy. The race direction is anti clockwise. The start line runs in a straight line to the uppermost buoy. Once the models are in the water, the race begins with an acoustic signal sounded by the landing stage leader. At this time the boat must lie with its stern to the landing stage. If a model has a late start and the rest of the models that started on time have reached the bottom left buoy, then the late starter must start towards the bottom right buoy. An impedance of the other models has to cease.**
- (2) There is 3 or 4 heats in a Race. The results of the 2 best heats are added. The 8 competitors with the best results advance to a final heat, were the final result is determined. (Otherwise, evaluation see regulation for competitors B No. 4)**
- (3) A heat lasts 5 Minuets.**
- (4) During a race, boats that have broken down can be picked up by the recovery boat at the end of the heat, apart from when a boat sinks or might sink.**
- (5) If a buoy is passed on the wrong side, the competitor has the right to turn his model and drive around the buoy on the right side, provided that he thereby does not hinder the other competitors. If this does not happen, the round is not counted.**
- (6) Also after a heat / race the model must correspond to the construction specifications of his class. The landing stage leader/referee can check this at any time, also after a heat / race.**