

## Week 4

Q53- Can part of the device (vehicle and base) fly over the area outside the large 150-cm circle without touching the floor there or may no aerial portion of the device go beyond the vertical extension of this same large circle?

Yes, but only after the fans have been turned on. Before the fans are turned on, everything that makes up the device must be in the departure area. See Q2 a).

Q54- If a team decides to use the 90 seconds of wind energy to store, in one form or another, the energy that will be transmitted to the vehicle and if the vehicle takes off ONLY after the fans stop: will the time calculated by the referees be 90 seconds + the time the vehicle is moving or only the time the vehicle is moving?

The only time that will be measured is time "t" as defined in the section of the booklet that deals with scoring. This time does not include the 90 seconds of wind energy.

Q55- If I understand the rules correctly (A line is considered to have been crossed when part of the vehicle has crossed it partly), a part of my vehicle could remain in the first area following the departure area while the other part runs several laps around the track?

The vehicle is a single entity; it cannot be divided into two parts. For the optical gate to operate properly, the vehicle cannot stretch out so that it occupies more than one lap of the track at any single moment.

Q56- Are we allowed to divide the departure area into two? In other words, can we take an area equal to 1/16 on one side and another area equal to 1/16 on the other side and put them together symmetrically to obtain 1/8 of a lap, and thus a regulation size departure area?

No.

Q57- Are we allowed to use adhesive tape in the departure area to attach our stationary equipment, like the launch pad and a wind turbine, to the floor?

Yes, but you will have to leave the departure area as it was before you set up your equipment, without any tape residue.

Q58- Regarding Q16

When I look at the sketch of the playing field, I wonder if the light beam wouldn't happen to be located instead in one of the three (4-1) hockey pucks in the centre of the playing field... the green line starts at that point.

The green line does not represent the light beam; it shows the position of the starting line.

Q59- Does the clock start to run when the entire vehicle crosses the starting line and stop when the entire vehicle has crossed the line again???

Read the section on scoring in the booklet again; it clearly defines time "t".

Q60- If I understand Note 2 correctly, a line is considered to have been crossed when part of the vehicle has crossed it partly.

Yes.

Q61- How will the organisers manage the fact that when vehicles have several wheels they each cross through the light beam at different times???

Once the time clocking system has been turned on and the entire vehicle has crossed in front of the sensor, the clock is reset to zero; the clocking system will then be turned off by the returning vehicle.

Q62- Are there any limits to the weight and size of the device (maximum and minimum)? For instance, can it be very light and very

small? Are we to understand that if it fits into the box, it's good?

Yes, it's good.