ADMIRAL PITKA RECON CHALLENGE 2024 (APRC24)

APPENDIX E - 6. REQUIREMENTS FOR UAV AND REMOTE PILOT

1. Requirements for UAV

- Small multirotor UAV: MTOW ≤ 2kg
- Endurance (max flight time, no wind): ≤ 50 min
- Max wind speed resistance: at least 10 m/s
- Operating frequency (control system and video data transmission): 2.4/5.8 GHz
- Thermal or night vision camera
- Configurable Failsafe: C2 Link loss, Low battery, GNSS fix loss, Return to Home (RTH)
- Additional set of spare propellers and 3 reserve batteries
- Charging equipment

2. General UAV guidelines

To avoid radio interference, the drone must be set to operate in Europe. The use of radio frequencies must follow the Estonian Frequency Plan.[1]

Remote ID (according to EU Regulation 2019/947) is not required during competition.

All UAVs must be equipped with additional GPS tracking device provided by the competition organizer and mounted to UAV on site (additional weight up to 50 g).

All UAV airframes, payload, and accessories (batteries, propellers) must pass a safety and airworthiness inspection. Failsafe configurations must be done according to additional guidelines provided by the competition organizer.

Once the airframe and payload has been checked and approved, it must not be modified or changed, or it will require to be reinspected.

Any repairs must be done with equivalent parts that were originally used during check-in.

The competition organizer has the final decision on whether any equipment is accepted and/or requires changes or modifications to be approved for the competition.

Autonomous flight operations and flight control over mobile networks is not allowed.

Use of privately built UAVs is not allowed.

3. Requirements for the remote pilot

At least one team member must have remote pilot qualifications.

Recommended minimum requirement is compliance to NATO remote pilot qualification level I (BUQ I, as specified in STANAG 4670).

The accepted minimum requirement is A1/A3 remote pilot competency certificate from EASA member state (EU region) or corresponding remote pilot qualification from the country of origin.

The remote pilot of the team is responsible for ensuring that the UAV is in a safe condition to complete the intended flight safely, in compliance with the instructions and limitations provided by the UAV manufacturer and follows additional UAV operating guidelines set forward by the competition organizer.

The remote pilot of the team is responsible for operating and maintaining their own equipment and has the final responsibility for the operation and safety of the flight.

Any injury and damage caused by UAV operations is the responsibility of the remote pilot.

4. Risks and limitations

UAS operations are conducted near the border with the terrorist state Russia.

For the past months, aircraft flying in the Baltic region have been experiencing varying degrees of interference with GPS signals.

The competition organizer reserves the right to impose additional safety procedures and guidelines for UAV operations during the competition if it is deemed appropriate.

[1] Radio frequencies | Consumer Protection and Technical Regulatory Authority (ttja.ee)

Team representative must provide the competition organizer by **July 1st, 2024 (See ANNEX E-10)**:

- The information on UAV type, make, model and serial number;
- Documentation providing proof of remote pilot qualifications.