

 <p>Carnegie Mellon University Environmental Health &amp; Safety FIRE   LAB   WORK</p>	<p><b>Environmental Health and Safety</b> <b>Uncrewed Aircraft Systems (UAS) / Drone Program - Pre-Flight Checklist</b></p>
<p><b>Date of Issuance:</b> 10/25/22</p>	<p><b>Revision Date:</b></p>
<p><b>Revision Number:</b> Initial</p>	<p><b>Prepared by:</b> UAS/Drone Committee and Environmental Health and Safety</p>

## Hull and Propellers

- All hull screws are securely fastened to the body of the UAS/Drone.
- All propellers are securely fastened to the motors.
- Transmitters and accompanying wires are securely fastened to the hull.
- Camera(s), gimbal(s), and accompanying wires are securely fastened to the hull.
- There are no loose parts, wires, screws, or extremities that can fall from the UAS/Drone.

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## Safety Checks

- The operator performed a visual review of the area of operation.
- The operator is aware of aerial obstructions (i.e., poles, structures, utility wires, trees).
- The operator clearly marked a take-off/landing zone and an emergency landing zone.
- The operator has clearly announced that a UAS/Drone is preparing for flight.
- The operator has ensured no nonparticipating persons or large animals are near the take-off/landing and emergency landing zones.
- Weather permits the safe operation of the UAS/Drone.

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## Power to System

- The battery being placed into the UAS/Drone has a full capacity charge.
- The batteries inside the RC controller have a sufficient charge.
- There is a spare UAS/Drone battery with a full charge.
- There are spare batteries for the RC controller with a full charge.
- The UAS/Drone battery is securely fastened within the UAS/Drone hull.
- The UAS/Drone powers up completely indicating a normal audible chime of operability.
- All lights on the UAS/Drone are operating normally.

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## RC/WIFI

- There is a steady connection between the RC controller and the UAS/Drone.
- The UAS/Drone is responding accurately and efficiently to RC commands.
- RC Controller is set to appropriate control mode.
- Onboard computers are connected and functional.
- Data logging if any is activated.

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## Satellite Connectivity

- UAS/Drone is indicating full satellite/GPS connectivity.
- UAS/Drone has set the "home" location to include altitude and speed.
- Following take-off, UAS/Drone successfully completes a 10-second unassisted hover in Position Hold mode.

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## Miscellaneous

- Firmware versions are correct on the UAS/Drone and transmitter.
- The onboard computers have correct versions of code compiled and tested.
- The flight log is updated.