Sample Preflight Inspection Checklist

Even if the small unmanned aircraft system (small UAS) manufacturer has a written preflight inspection procedure, it is recommended that the Remote PIC ensure that the following inspection items are incorporated into the preflight inspection procedure required by part 107 to help the Remote PIC determine that the small UAS is in a condition for safe operation.

Conduct a preflight visual or functional check of the aircraft, including (but not limited to) the steps below.

	Visually inspect the condition of the unmanned aircraft system components
	Inspect the airframe structure, including undercarriage, all flight control surfaces and linkages
	Inspect registration markings for proper display and legibility
	Inspect moveable control surface(s), including airframe attachment point(s)
	Inspect servo motor(s), including attachment point(s)
	Inspect the propulsion system, including powerplant(s), propeller(s), rotor(s), ducted fan(s), etc.
	Verify all systems (e.g. aircraft, control unit) have an adequate energy supply for the intended operation and are functioning properly
	Inspect the avionics, including control link transceiver, communication/navigation equipment and antenna(s)
	Calibrate UAS compass prior to any flight
	Inspect the control link transceiver, communication/navigation data link transceiver, and antenna(s)
	Check that the display panel, if used, is functioning properly
	Check ground support equipment, including takeoff and landing systems, for proper operation
	Check that control link correct functionality is established between the aircraft and the control station
	Check for correct movement of control surfaces using the control station
	Check on board navigation and communication data links
	Check flight termination system, if installed
	Check fuel for correct type and quantity
	Check battery levels for the aircraft and control station
	Check that any equipment, such as a camera, is securely attached
	Verify communication with UAS and that the UAS has acquired GPS location from at least 4 satellites
	Start the UAS propellers to inspect for any imbalance or irregular operation
	Verify all controller operation for heading and altitude
	If required by flight path walk through, verify any noted obstructions that may interfere with the UAS
	At a controlled low altitude, fly within range of any interference and recheck all controls and stability
Adapted from: AC 107-2, Small Unmanned Aircraft Systems (sUAS) (as amended)	