|  |  |
| --- | --- |
| **1. Weather & Site Safety**   * Chance of precipitation? * Wind speed under 15 knots (20 mph) * Kp-Index is 3 or less * Cloud base is at least 500 feet * Visibility is at least 3 statute miles (SM) * Anti-collision lights needed? * Establish take-off, landing and emergency hover zones * Potential for electromagnetic interference? * Look for towers, wires, buildings, trees and other obstructions * Look for pedestrians and animals and set up safety perimeter, if needed * Discuss flight mission with other crew members, if present   **3. Power Up**   * Turn on RC and open up flight app * Turn on aircraft * Verify connection b/w RC and aircraft * Position RC antennas toward the sky * Verify display panel / FPV screen is functioning properly * Calibrate Inertial Measurement Unit (IMU) as needed * Calibrate compass as needed * Verify battery levels on both transmitter and aircraft * Verify connection with at least six satellites for GPS and that I hear "The Home Point has been updated" prior to taking off (this is specific to the DJI Fly app) | **2. System Inspection**   * Registration number is displayed properly and is legible * Look for abnormalities — aircraft frame, propellers, motors, undercarriage * Look for abnormalities — gimbal, camera, transmitter, payloads, etc. * Gimbal clamp and lens caps are removed * Clean lens with microfiber cloth * Attach/insert propellers, battery/fuel source, SD card, lens filters   **4. Take Off**   * Take off and hover at an altitude of 10 feet for 10 seconds * Look for any imbalances or irregularities * Listen for abnormal sounds * Pitch, roll, and yaw to test control response and sensitivity * Check for electromagnetic interference or other software warnings * Do one final check to secure safety of flight operations area * Proceed with flight |