**Miami-Dade Police Department**

**Micro Air Vehicle**

**AIR VEHICLE(AV) ENGINE START CHECKLIST:**

1. Eye and hearing protection in place
2. Ensure that AV is fueled-See AV FUELING PROCEDURE CHECKLIST (MANUAL)- APPENDIX M OR AV FUELING PROCEDURE CHECKLIST (E-FUELER) – APPENDIX N
3. Ensure that launch area is clear and conforms to all AV limitiations
4. Take wind reading-ensure within limitations of MAV (<15 Knots)
5. Perform AV EXTERIOR CHECK-See AV EXTERIOR CHECKLIST-APPENDIX G
6. If needed, perform ENGINE TUNING-See AV ENGINE TUNING CHECKLIST I
7. On avionics pod, flip power switch up
8. On avionics pod wait for solid green led
9. On avionics pod, flip servo switch up
10. Verify all servos (6) move freely with no binding and camera gimbal rotates freely
11. On avionics pod, wait for solid green led
12. On avionics pod, flip servo switch down and wait for solid green led
13. Verify with PIC that communication link has been established by AV
14. On avionics pod, flip servo enable switch up, wait for red led to extinguish
15. Announce engine start
16. Start engine by pulling starter cord, utilize choke if necessary
17. Once the AV is running, remove starter latches (4) and lift AV straight up from starter base
18. Set AV on ground with payload (camera) facing into the wind
19. While carefully exiting the launch area and removing the starter base, maintain a visual on AV
20. Report to the GCS Operations area
21. Advise PIC of the wind direction and speed and that the AV is ready for launch