

DE-BRIEFING**7**

1. Mission Vitals –TO/Landing Times, Voltages, Landings
2. Maintenance Review – Aircraft/GCS
3. Mission Review
 - A. Objectives / Mission Planning
 - B. Ground Ops
 - C. Takeoff/Departure/Climbout
 - D. Enroute/Test Points
 - E. Descent/Arrival/Landing
 - F. After Landing
 - G. CRM
4. Test Cards (as applicable)
5. Engineering Debrief
 - A. Guidance & Control
 - B. Payload
 - C. Ground Stations
 - D. Communications
 - E. Mechanical
 - F. Electrical
 - G. Avionics
 - H. Propulsion
 - I. Fuel
 - J. ECM effects
6. Support Debrief
 - A. Range Safety
 - B. Tower
 - C. C-sUAS Support (as applicable)
 - D. Chase
7. Final Comments

CAP BRIEFING GUIDES**CREW BRIEFING****0**

1. Time Hack
2. Security
3. Roll Call
4. Mission / Training Objectives
5. Mission Timeline
6. Flight Lineup
 - A. Incident Commander
 - B. Aircraft and Ground Station Assignment
 - C. Call signs
 - D. Frequencies
7. Flight Discipline
 - A. Operational Risk Management
 - B. Crew Resource Management
 - C. Other Cooperating Agencies
 - D. Crew Duty Day
8. Environment
 - A. Weather
 - B. NOTAMS
 - C. Airfield / Area Status
9. Airspace
 - A. Airspace / Areas Scheduled
 - B. Deconfliction Plan
10. Test Cards (as applicable) / Mission Detail
11. Safety
12. Emergencies
13. Emergency Procedure of the Day
14. Fuel/Battery Load - Joker, Bingo, Divert Fuel
15. Special Interest Items
16. Alternate Mission
17. Non-Crew Member Briefing

CAP BRIEFING GUIDES

PRE-MISSION

1

SYSTEM PREFLIGHT:

- FIRMWARE & GCS UP-TO-DATE (AS APPROVED)
- CACHE MAPS FOR FLIGHT AREAS
- SD CARD(S) CLEARED/INSTALLED
- AIRCRAFT BATTERIES CHARGED
- CONTROLLER, SENSOR & GCS CHARGED

EQUIPMENT PACK:

- CHECKLISTS
- EMERGENCY EQUIPMENT
- PACK LOG BOOK
- RADIOS (LMR, VHF, etc)
- TABLET SHADE PROTECTOR
- USB CABLEs
- EXTERNAL POWER EQUIPMENT
- FLIGHT PLAN & AIRSPACE RESTRICTIONS
- AIRCRAFT (PROPs, BATTERIES, GCS, SENSOR, etc)

MISSION PREP / BRIEFING:

- MISSION DETAIL (BRIEFED / PROGRAMMED)
- AIRSPACE, GROUNDSPACE & FREQUENCIES
- OBSTACLES (RTH, T/O LOCATION, etc)
- ORM
- WEATHER
- NOTAMS
- EMERGENCIES
- BATTERY PLAN / BINGO
- NON-CREWMEMBER BRIEFING
- FLIGHT & AIRSPACE APPROVED / SIGN OUT

CAP sUAS CHECKLIST

POSTFLIGHT

6

1. THROTTLE..... OFF
2. FLIGHT TIME & BATTERY VOLTAGE..... RECORDED
3. AIRCRAFT, CONTROLLER, GCS & SENSOR..... OFF
4. BATTERY..... REMOVED / STORED
5. PROPELLERS..... REMOVED / CHECKED
6. GIMBAL..... SECURED
7. SD CARD..... REMOVED
8. AIRCRAFT INSPECTION..... COMPLETE

CAP sUAS CHECKLIST

FCF / SOF**5**

1. LOW / HIGH SPEED TAXI..... CHECKED
2. TAKEOFF / TRIM..... MANUAL
3. HOVER / LOITER..... 20-40 FT
4. VOLTAGE, GPS AND RF SIGNAL STRENGTH.... MONITOR
5. HALF-STICK MANEUVERS..... CHECKED
 - A. FORWARD / BACK
 - B. STRAFE LEFT / RIGHT
 - C. YAW LEFT / RIGHT
 - D. UP / DOWN
6. FULL-STICK MANEUVERS..... REPEAT STEP 3
7. GIMBAL..... CHECKED
8. HIGH / LOW APPROACHES..... CHECKED
9. LANDING..... MANUAL
10. TAKEOFF..... AUTO
11. GEOFENCE LIMITS..... CHECKED
12. RETURN-TO-HOME..... CHECKED
13. LOSS OF LINK FAILSAFE..... CHECKED
14. AUTOPILOT MANUEVERS..... CHECKED
15. LANDING GEAR..... CHECKED
16. LANDING..... AUTO
17. MAINTENANCE LOGS..... RECORDED

CAP sUAS CHECKLIST**AIRCRAFT INSPECTION****2**

- _____ AIRFRAME INSPECTION
 - _____ CRACKS OR SEPARATION
 - _____ LOOSE OR DAMAGED SCREWS
 - _____ LOOSE OR DAMAGED WIRING / CONNECTIONS
- _____ MOTORS / PROPELLERS
 - _____ MOTORS SPIN FREELY
 - _____ PROPELLER MOUNTS
 - _____ PROPELLERS SMOOTH
- _____ CAMERAS & SENSORS CLEAN AND SECURE
- _____ ANTENNAS ORIENTED AND SECURE

CAP sUAS CHECKLIST

PREFLIGHT

3

CONTROLLER:

1. CONTROLS MOVE FREELY..... CHECKED
2. TRIMS..... NEUTRAL
3. ANTENNAS..... POSITIONED
4. MODE SWITCH..... CHECKED
5. OTHER SWITCHES..... POSITIONED

GCS:

1. WIFI / BLUETOOTH..... SET
2. BRIGHTNESS..... SET
3. VOLUME..... SET

AIRCRAFT:

1. AIRCRAFT INSPECTION..... COMPLETE
2. SD CARD..... INSTALLED
3. CAMERA/GIMBAL SETUP..... CHECKED
4. BATTERY..... INSTALLED
5. PROPELLERS..... INSTALLED

CAP sUAS CHECKLIST

BEFORE TAKEOFF

4

1. LEVEL SURFACE & INTO WIND..... CHECKED
2. THROTTLE..... OFF
3. AIRCRAFT, CONTROLLER, GCS & SENSOR..... ON
4. COMPASS..... CALIBRATED
5. IMU..... CALIBRATED
6. * CONTROLLER SETTINGS..... SET
 - A. AIRCRAFT PROFILE
 - B. TIMER
7. * FLIGHT CONTROLS..... CHECKED
8. * RANGE TEST..... PERFORMED
9. * SAFE / ALTERNATE MODES..... CHECKED
10. GCS SETTINGS..... SET
 - A. MAX FLIGHT ALTITUDE
 - B. MAX FLIGHT DISTANCE / GEOFENCE
 - C. RETURN TO HOME ALTITUDE
 - D. AUTOPILOT GAIN TUNING
 - E. HOME POINT
11. CAMERA SETTINGS..... SET
12. GPS SATELLITES..... CHECKED
13. LIGHTS AND TONES..... CHECKED
14. LAUNCH SITE..... CLEAR
15. MOTORS..... STARTED

CAP sUAS CHECKLIST