Equipment Inventory

This document outlines the location of equipment and supplies within the AFSL.

Recent update: 09/27/17

# Boxed Items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Box Name** | **Box Type** | **Contents** | **Used in Flight Tests** | **Comment** |
| **Vehicle Specific Boxes** | | | | |
| Skywalker 1900 | Orange Home Depot | * Simulator system | Yes |  |
| Finwing Sabre | Orange Home Depot | * Props, receivers, servo, pressure sensor, esc, buzzer, Pix | Yes |  |
| Argo | Stanley Rolling Toolbox | * Argo equipment * (FVP Monitor) * (Pixhawk) * (FrSky Radio System) * (Swift Navigation) | Yes |  |
| CERES | Orange Home Depot | * CERES equipment * (RunCam) * (AV Transmitter) | Yes |  |
| CONDOR | Orange Home Depot | * CONDOR equipment | Yes |  |
| FUNRA | Orange Home Depot | * FUNRA equipment | Yes |  |
| HAPRA | Orange Home Depot | * HAPRA equipment * (Digital Servo) | Yes |  |
| MARV | Orange Home Depot | * MARV equipment * (Pixhawk Controller | Yes |  |
|  |  |  |  |  |
| TEDD | Orange Home Depot | * TEDD equipment * (Pixhawk) * (Canon PowerShot S100) | Yes |  |
| Wind Tunnel Model | Orange Home Depot | * Wind Tunnel Model equipment | No |  |
| Antenna Tracker | Orange Home Depot | * Antenna tracker equipment * (YI action camera) | Yes |  |
| Vision System | Small Husky Box | * Vision system camera gimbal | Yes |  |
| Phantom, Solo, Cera | Orange Home Depot | * Phantom, Solo, Cera equipment | Yes |  |
| **Electrical and Electronics** | | | | |
| Electronic Tools | Orange Home Depot | * Digital scale (<1kg) * 2 Flashlight * Cell checker * Multimeter + leads * Battery checkers * Tachometers * Wifi adapter * Mini dremel * Programming Card * Handheld GPS unit * RF Spectrum Analyzer | No | This should have electronic tools (or tools with a plug). |
| Video & FPV | Stanley Rolling Toolbox | * FatShark Dominator goggles * FPV monitors * Mobius cameras * Video receivers * Video transmitters * Video cabling * Video accessories | No | Cables, hardware, and items associated with video. |
| Batteries (LiPo) | Small Husky Box | * LiPo batteries during flight tests | Yes | Used to transport batteries |
| Batteries (LiPo) | Small Husky Box | * LiPo batteries during flight tests | Yes | Used to transport batteries |
| Batteries (Non-LiPo) | Small Husky Box | * AA, AAA, 9V batteries * Other Non-Lipo batteries | No | Various and assorted batteries (non-LiPo) |
| Computer Cables | Orange Home Depot | * Ethernet cables * Power chords * Monitor cable * USB mice * Mouse pads * Serial ATA cable | No | Accessories needed for computers. Note that USB cables are in a separate box |
| Raw Electrical Components | Orange Home Depot | * 12V pigtails * Electrical connectors | No | See Wires & String box for wires |
| USB Cables & SD Cards | Small Husky Box | * USB cables * 4-Port USB Port (Little Man) * USB (2) * SD card | No | This should only have USB cables |
| Power & Charging | Large Husky Box | * Battery charges (LiPo, NiMd, etc.) * 12V power supplies * 12V clips * Inverters * Power strips * IEC cables * Transmitter battery chargers | No | Equipment needed to connect batteries or other power sources |
| Raw Wires | Orange Home Depot | * Raw wires |  |  |
| **Construction (Tools, Supplies, Etc.)** | | | | |
| Tools | Stanley Rolling Toolbox | * Hammers, screwdrivers, Allen wrenches, etc. | No | These are general hand tools. See ‘Extra Tools & Supplies’ for more tools |
| Extra Tools & Supplies | Orange Home Depot | * Scissors * Tape measure * Digital Kitchen Scale * Shovel * Pliers * Screws | No | These are extra tools that can stay in the lab. |
| RC Parts (Large) | Stanley Toolbox with Green Feet | * Pixhawk components * Propellers * Motors * Navigation Lights * Radio Antennas * ESC Power Module * Buzzer * Arming Switch * External USB Port | No | Larger, more important RC components. See other RC Parts boxes for other parts. |
| RC Parts (Medium) | Husky Multi-Compartment, Tiered Box | * ESCs * Servos * XT60 connectors * Various cables | No | Medium, more consumable RC components. See other RC Parts boxes for other parts. |
| RC Parts (Small) | Orange Home Depot | * Small RC parts | No | Small, more consumable RC components. See other RC Parts boxes for other parts. |
| Velcro, Zip-Ties, Rubber Bands | Small Husky Box | * Velcro wire straps * Doubled sided Velcro * Zip-Ties * Rubber bands | No | Additional rubber bands may also be located in the ‘RC Parts (Medium)’ box |
| Tapes & Glues | Orange Home Depot | * Tapes (duct, masking, electrical, etc) * Glues (epoxy, CA, etc.) * CA kicker | No | Various tapes and glues only |
| Consumables | Orange Home Depot | * Flux * Screws * Safety Switches * Weather Seal * Etc | No |  |
| Screws ‘N Stuff | Small Husky Box | * Screws * Washers * Nuts | No |  |
| Soldering | Orange Home Depot | * Solder * Soldering iron * Soldering iron sand * Heat shrink * Clamp * Wire (various gage | No |  |
| **Miscellaneous** | | | | |
| TRAPIS | Orange Home Depot | * TRAPIS equipment | No |  |
| Safety #1 | Large Husky Box | * Safety goggles * Work Gloves * Disposable Gloves * Ear muffs * Respirator * “HazMat” suit * Gas Mask * Neon Strings | No |  |
| Launcher | Orange Home Depot | * Rope * Bungee | Yes | Items necessary for the metal launcher |
| High Start | Orange Home Depot | * Bungees * Rope * Toy Parachutes * Tent Studs | Yes | Items necessary for the high start system |
| Battery Bags | Orange Home Depot | * Extra Lipo Battery Bags | No |  |
| Power & Charging | Orange Home Depot | * USB Wall Adapter(s) | No |  |
| **Miscellaneous (in storage)** | | | | |
| Cooler | Blue plastic cooler | * Food and snacks * Water * Drinks * Blue Ice | Yes |  |
| Thermo-electric cooler |  |  | Yes |  |
| **MFOC** | | | | |
| Cables | Orange Home Depot | * Data transfer cables * Metal connectors * Phone chargers * Extension cable * Cables |  |  |
| Emergency Spare | Black fold-out | * Adhesives * Magnetic parts holder * Tools * Weights/BBs * Spare parts in bag (screws and sandpaper) * Zip ties * RC parts * Battery checker | Yes |  |
| Transmitter Accessories | Small Husky Box | * Trainer cables * Transmitter modules * TGY-i10 sensors * Transmitter sun blocks | Yes | Various items associated with transmitters. See ‘Power & Charging’ for transmitter battery chargers |
| Bungees, Truck-Net, Tie-Downs, Strings | Orange Home Depot | * Bungee cords * Truck net * Ratcheting tie downs * String | Yes |  |
| Emergency! | Large Husky Box | * Sand for putting out fires * Safety goggles (1 pair) * Work Gloves * Gas Mask * Fire Extinguisher * First Aid Kit | Yes | For use with aircraft crashes in case of fire or emergency |
| Tarps and Sidewalls | Large Rubbermaid box | * 10’ x 10’ side walls for 10’ x 20’ canopy (white and opaque) (x4) * 10’ x 20’ side walls for 10’ x 20’ canopy (clear) (x1) * 10’ x 10’ side walls for 10’ x 10’ canopy (normal tarps) (x4) * Plastic tarp (so people can place backpacks and other loose items) * Plastic runway (10’ x 100’ of 6 mil plastic) | Yes | NOTE: This is located in the MFOC only |
| Cooking and Domestic | 60 Gallon Husky Box | * Wooden Picnic Basket (Cups, Utensils, Knives) * Plates * Bowls * BBQ tools * BBQ grill * Propane tank hose * Lighter * Small propane tanks * Paper towels * Garbage bags * Paper Napkins | Yes | This has domestic items for cooking and eating.  NOTE: This is located in the MFOC only |
| Extension Cords, Misc | 60 Gallon Husky Box | * Extension cords * Power strips * Motor cycle helmet * Large tape measure * Orange cones * Tripod * Binoculars * Helmets (x2) | Yes | NOTE: This is located in the MFOC only |
| Outdoor Gear | Orange Home Depot | * Extra clothes * Gloves * Hats * Turnigy hand warmer glove * Turnigy battery powered warmer * Sunglasses | Yes | NOTE: This is located in the MFOC only |
| Soaps, bug spray, sunscreen | 5 compartment organizer in MFOC | * Hand soap * Hand sanitizer * Sun screen * Bug spray * Soapy water to check for propane leaks | Yes | NOTE: This is located in the MFOC only |
| Hazardous | Wooden box in front of MFOC | * Large propane tank * Generator * Gas can | Yes | NOTE: This is located in the MFOC only |
| Aircraft Retrieval | Adidas backpack |  | Yes | This has equipment necessary for retrieval of lost aircraft. Some loose equipment may also be located in the MFOC. |
| Paperwork (misc.) |  | * COA info * AMA membership info * HAM radio licenses * Driving directions * User manuals * Informational brochures | Yes | See ‘Paperwork (AFSL Manuals)’ for manuals generated by AFSL |
| Paperwork (AFSL Manuals) |  | * Aircraft flight manuals * MFOC operator’s manual | Yes | This has manuals and documentation generated by AFSL |
| Radios | Orange home depot | * Airband radios * Walkie talkies * CB radio supplies |  |  |
| Headsets | Black small husky | * Headsets |  |  |
| Electronic tools | Orange home depot | * Multimeter * Scale * Battery charger * Kestrel weather station * Power cables * Marco polo tracker |  |  |
| FPV | Black small husky | * FPV/video equipment * Male to male/male to female adapters |  |  |

# Loose Items

* 10’ x 20’ canopy
* 10’ x 10’ canopy
* Folding tables (x3)
* Folding benches (x1)
* Folding chairs
* Big Buddy propane heater
* Electric space heater
* Cinder block for charging batteries
* Bricks to weigh down runway
* Sandbags (x4)
* 5 Gallon Non-Potable Container

Box Layout (MFOC)

\*As viewed looking into the trailer from back doors of trailer

Left Side Wall

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Top Shelf** |  |  | Transmitter Accessories |  |  |  | |  |
| **Second Shelf** | Electronic Tools | |  |  | Radios | Bungees, Tiedowns, Truck Net, String | |  |
|  | |
| **Third Shelf** | Cables | FPV |  |  |  |  | | |
| **Bottom Shelf** | Tent weights | Headsets | | | | | Outdoor Gear | |
| **Floor** | (Misc.) | | | | | | | |

Front Wall

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Top Shelf** |  |  |  |  |
| **Middle Shelf** |  | Emergency! | Helmet |
| **Bottom Shelf** | (Misc.) | Tapes and Glues/Tools/Extra RC | (Misc.) |
| **Floor** | (Misc.) |  |  | (Misc.) |

Right Side Wall

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Top Shelf** | Marine Battery | Power Strips | Misc. | GCS Computer |
| **Floor** | Trash Can | GCS Box |  | Spare Tire |

Center Aisle

* Work Benches
* Work Tables
* Large Tent
* Ladder
* Airframe Boxes (60 Gallon Husky Box)
  + Extension Cords, Misc (60 Gallon Husky Box)
  + Tarps & Sidewalls (60 Gallon Husky Box)
  + Cooking & Domestic (60 Gallon Husky Box)

Box Layout (AFSL)

\*As viewed looking into the lab from the AFSL door

Left Side Wall

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Top Shelf** | Wind Tunnel | MARV | CERES | FURNA | HAPRA | TEDD | | ROVER | RAW WIRES | Skywalker 1900 | (None) | (None) | (None) |
| **Middle Shelf** | (None) | Velcro, Zipties, Rubber Bands | SOLDERING | Consumables | Electronic tools | Computer cables | | Tapes | Glues | Phantom, Solo, Cera | Lidar Accesories | Finwing sabre | Trapis |
| **Bottom Shelf** | (none) | (none) | Raw and electronics components | USB & SD cards | RC Large | | Transmitters(A,D-H,J-N) | | | | | | |

Right Side Shelving/Work Bench (Near Door)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Top Shelf** | Grover (System) | | Antenna Tracter | Box | Box | cans |
| **Middle Shelf** | Launcher | High start | Hi & Pix | Extra tools and supplies | | Extra Battery Bags |
| **Lower Shelf** | Power & Charging | simulator | | Screw & stuff | | RC Parts (small) |
| **Above Cabinet** | Battery non-Lipo | Broken Components | Batteries needing charging | RC Parts (medium) | |  |
| **Cabinet** | (none) | |  | Safety 1 | | |
| **Desk** | LiPo Battery Charging Station | | | | | |
| **Ground** | Battery & MFOC need charging box | | Fire extinguisher | Emergency Sand | | |

Work Bench/Work Stations

* LiPo Batteries (right of computer Condor)
* LiPo Batteries Cemetary (red Craftsman box under LiPo Batteries)
* Falco (under Work Bench)
* SAM (under Work Bench)
* ARGO (under Connor’s table