

To Do list:

FAA:

1. Finish IIP device qualification testing
 - a. Test software
 - b. Do long Test Run
 - c. Do Real world tests at FAR.
 - d. Final Report
2. Convert Application bullet items to Paper Checklists.
3. Set up recording device for Audio from Radios
4. Organize Radios and Audio device in easily deployed fashion
5. Document Qualification steps in application.
6. Start Arranging for and shopping for insurance.
7. Prepare for Vehicle Inspection.

Logistics:

1. Arrange for Permanganate to go to Holloman
2. Arrange for Peroxide at Holloman.
3. Get Vitamin C.

Xprize:

1. Team Monthly Reports
2. Team agreement
3. Team Presentation
 - a. Peroxide and Permanganate handling video
4. Goto Team Summit .

Ground Equipment

1. Hoses on reels
2. Regulators and good quality Gauges.
3. Quick disconnect
4. Remote pressurize and Disconnection electronics?
5. Plumb Peroxide Pump.
6. Peroxide Fill Tank setup.
7. Permanganate Fill arrangement.

Vehicle:

1. Finish New /Spare Landing Gear.
2. Battery Mounts.
3. Payload Mounts
4. PayLoad (If amateur rules pass we can sell souvenirs.)
5. Video Cameras.
6. Centerline indicator.

Tether flights:

1. Tether Ropes
2. Tether Rope terminations
3. Tether Mounts on Vehicles. (Spools?)
4. Crane for FAR
5. Post/fall over legs to hold orientation and practice liftoff.

Free flights on Lakebed.

- ~~1. Steel Plate?~~

Helicopter Software:

1. Modify Timing Loop and code structure to be more like vehicle.
2. Add integral term for position hold.
3. Make helicopter take off and land
4. Make helicopter fly LLC profile.
5. Make helicopter receive commands from Telemetry stream, not just RC.
6. Develop UI for entering waypoints and flight profile.
7. Test Video for interference with telemetry, RC and Video.
8. Fix Ground data display to work with new profile.
9. Make vehicle record higher speed data onboard.

Ground Software

1. Fix data recording (currently broken)
2. Set up data display software
3. Set up operational test/checkout software
 - ~~a. A whole new App or~~
 - b. Two applications display and control modified from existing.
4. Set Automatic checklist helpers for software, battery voltages GPS lock orientation navigation nearness to pad etc...
5. Build Robust hand held Start, Abort and Control box
 - ~~a. With Gain Adjustments?~~
 - ~~b. Just Use RC transmitter? (If so we need additional opto-isolation)~~
 - c. Just add another RC transmitter and Receiver.

Vehicle software:

1. Setup system to accept commands via Radio
2. Add Ethernet Abort for Static and Tether tests.
3. Add on board high rate data recording..
4. Combine/Merge Helicopter software with Control software.
5. Hang Vehicle and test IMU actuator sign/test.
6. Add IIP computer reporting system.
7. Add IIP flow through commands (Partially done).

Test Setup

1. Write code to sweep pressures for next static test.
2. Add additional pressure transducer for engine Stability test.
3. Crytox Snubber on chamber pressure.
4. Add Tether test software if not just special case of Waypoints.
 - a. Up and Down..
 - b. 15 Second flight.

Vehicle Spares

1. Make up Battery Sets.
2. Make up Spare Valves
3. Make Up spare Motor.
4. Build Spare Vent Valve
5. Build Spare Main Valve.
 - a. (Bane Bot gearboxes are not available ,a problem)
 - b. Alternate Gearbox ?
6. Build Spare Electronics set
7. Build Spare Vehicle Tank?
8. Build set of spare of EVERY single nut bolt and fitting and connector.
 - a. Organize same so in the 2.5 hr window we can find and fix.