PSAS Drop Test: Mission Plan

|  |  |  |
| --- | --- | --- |
| **Action** | **Time** | **Notes** |
| **Meet at PSU** | **0730** |  |
| Load up | 0730 – 0830 |  |
| Leave for Prineville Airport (S39) | 0830 – 1200 | ~3-3.5 hr drive |
| Meet up at the airport | 1200 – 1215 |  |
| Cars take off to the ranch | 1215 – 1240 | ~25 min drive |
| Meet up with the land owner, get into place | 1240 – 1300 | Andrew will greet owner, ~15 min for hellos and whatnot |
| Plane takes off | 1300 – 1315 |  |
| Confirm drop location | 1315 – 1330 |  |
| **Drop!** | **1330 – 1350** |  |
| Recover | 1350 – 1415 |  |
| Meet back at airport | 1345 – 1400 |  |
| **Head home 😊** | **1400 – 1730** |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Packing List

* Fire extinguishers – 2
* Camp shovels – 2
* Walkie Talkies
* Any cameras, go-pros, DSLRs?
* Nosecone – w/ two? rings attached
* Module – w/ one ring attached (eNSR ring)
  + This includes eNSR and all electronic components
* Drogue cup
* Main cup
* Drogue ‘chute
* Main ‘chute
* Sand bag + attachments for the bag + sand
* Harness
* Water
* Snacks

Transportation Plan

**Attendees (needs a ride, driving self, riding in plane)**

1. Marie
2. Risto
3. William +2
4. John +1
5. Eric
6. Calvin? – would be riding with William
7. Andrew +1
8. Joe
9. Mike
10. Chris?

**Available Seats**

* John – 2
  + Joe
  + Eric

Tasks Left to be Accomplished

* Line cutters
  + #1 Sharpen cutting heads
* #3 Weight – **deadline: Tuesday night mtg**
  + Two sand bags
  + Sand
  + A way to attach the bag to the carabiner
* eNSR Cap
  + #1 Maybe print another?
    - Just in case
* Surgical tubing ring
  + #2 Mill out a small portion so that the RMAs can fully extend
* eNSR
  + #1 Motor not moving – **Decision due Tuesday night mtg**
    - Needs to require less power
    - Lubrication
    - Fixing the surgical tubing ring – only partial solution
    - Different motor?
  + #D Want more data
    - Teach Marie, John, and Will how to operate controller and get feedback
    - Bldc tool (app for running motor)
  + #2 Finalize how long voltage is applied to the line cutters
    - More documentation on the line cutters during this
  + Figure out IR sensors
  + #3 Run code more to make sure it is consistent/smooth
    - Mitigate faults
  + #3 Rewrite code to not just brute force motor time length
  + #D Any other fail-safes we want to implement
* Static line
  + #D Buy a new, better audio cable – **deadline Tuesday night mtg**
    - One now shorts out

Pilot Requirements

* Just need good weather
* Anytime – a week would be nice, a few days is good too
* Next weekend would be fine
* We are Dan’s September flight
* There is a potential to take another aircraft
  + Slower plane but that makes 3 available aircrafts

Andrew’s comments

* Let’s push for next Sunday, Sept. 10