## Flight Director Checklist

NS- 53

<u>Payloads</u> :	Command + (SNORA)	2.19 b
a	Link	1300g 2.870b -77,4(b
	Bach's Box	225lb ->7.5eb
	EM Cut down	1. 4626
	BADASS/Ibskd	1620a -3.281b
	Cho Magralo"	.516

Comments: Let's use BLT this time, maybe.

## ONE MONTH IN ADVANCE: Vehicle Rental ✓ Helium & Balloons Ordered ✓HAM Radio Club notified about using UMD's call sign LAUNCH WEEK: Pre-Flight Planning Checklist: Send the Launch Announcement email ✓ Create Zello station Print waivers Preliminary Weather Check ✓ Preliminary Ground Track Check Know which payloads will fly Vehicles identified and configured for tracking Pre-Flight Packing Checklist: BLT Bucket (check Inventory) ✓ Inflation Bucket (check Inventory) (read ) Recovery Bucket (check Inventory) (ready) Balloon Backup Balloon Batteries (check if charged) Bow Saw Clean Up Bucket (Broom, Dust Pan, Garbage) Cameras Cardboard Tubes **Extension Pole** Functioning Radios & GPS Helium Launch Kit Machete Multimeter ✓ Parachute and Ring + Assembled Command Module ⋄ ⋈ ; + Payload String + Tubing Phone Chargers (Reminder to Navigators) Power Inverter - Possiont

Scythe Sling Shot Spring Scale + digital scale (check batteries) Tarp (Big and Small) Tracking Antennas Van Keys Walkie-Talkies
<ul> <li>FAA Notification Checklist</li> <li>Notify Secret Service / Air Security Program (ASP@usss.)</li> <li>File NOTAM (6 hours prior) via fax: 703-777-8807</li> <li>Call NOTAM desk (866-225-7410 ext 9) to verify that fax came through and get assigned NOTAM number: <ul> <li>NOTAM #</li> <li>Call Washington Center (2 hours prior): 703-771-3470</li> <li>Call HGR Tower at 7am: 301-797-2039</li> </ul> </li> </ul>
Radios + Callsigns List  Command Module:  Main tracking van:  Second tracking van:  Specific payloads:
Others:

\*1

PRE-LAUNCH MEETING / PRE-LAUNCH DAY
Launch Confirmation/Postponement Email Print Contact Information Sheet (Payload Comm, Comm Officer, etc.)
<ul> <li>Assignments:</li> <li>Flight Director         <ul> <li>Assistant FD</li> </ul> </li> <li>Launch Director         <ul> <li>Assistant LD</li> </ul> </li> <li>Still Photographer:         <ul> <li>Additional:</li> </ul> </li> <li>Payload Commanders</li> <li>Clean Up Crew</li> </ul>
<ul> <li>Reminders:</li> <li>Everyone needs to decide right now if they will chase or go home</li> <li>Chase Vehicles will need to leave semi-immediately (so go potty now and be ready to leave right after release)</li> <li>Those who are not chasing should stick around long enough to clean up and secure everything</li> </ul>
Final Checks:  Waiver Check  Weather Check  Ground Track Check

## **LAUNCH DAY**

Parachute to Balloon lanyard configured Parachute and Ring assembled Command Module in place Payload string lined up and assembled "Harmless" tags on payloads Payload string weighed: Necessary Free Lift = Antennas clear No sharp edges, no weak links
Pre-Inflation Checklist  — Helium Tanks uncovered and regulator hooked up  — Hook lanyard from chute around balloon neck before connecting to inflation tube!  Instructions and Gloves to BLT anchors
Full payload string laid out and ready to go  Get lift measuring setup in place and measure total lift as needed
Inflation Start inflating at max flow rate Inflation Complete: Measure Total Free Lift =
<ul> <li>Pre-Release Checklist</li> <li>Clear to Launch (Range Safety)</li> <li>Payloads Ready (Payload Commander)</li> <li>Tracking Good (CapComm)</li> </ul>
Countdown & Release  All Payloads Switches On  Raise Stack above pad in full flight configuration  Telemetry and Downlink good  Photographers ready  Countdown from 10  Release: Time Mark =



Celtrader in decimal

10 didnot work at allittle

3 tonks of beliam + 2 balloons

print final payloob form stormoss

print final payloob form stormoss

Lanner Kit!

SMA STAFF V Small Screwd

Hot glar zun / Striks V togner

Litt till

Wire untters/Strippers V

tweezers V

Molly wire

Soldering tools

Xacto Knife V

SLHSOIS V

SLHSOIS V

WA Shank

Mulli meter

Call Washington Conkr Call Washington Conkr @ 60,000, Burst, landing Inflation A More Luck tope? (Somewhat, Separate for bucket?)

A check if hamless payload togs are correct. V Rearly - Velcro Strip Recovery Scart Add To Pie-Flight Systems Checklist - 2 columns (11 condy, 2nd packed)

- BLT orailist

& Charge und dept of ARIO Space to Manyland Space of font contract.