# Flight Director Checklist

NS-<u>55</u>

	Launch Location =	2.
<u>Payloads</u> :	O Com L	~4.5 lb
	@ Bach's Rox	~2.5 lb
	3 Tullousest	~2 16
	O SCORCH	~.6lb
	OBADASS	306
		_
		_

**Comments**:

One Month in Advance:  Vehicle Rental (check that outlets work)  Helium 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  Payloads determined and ordered  Vehicles identified and configured for tracking
Pre-Flight Systems Checklist  BLT Bucket (check Inventory) ready  Inflation Bucket (check Inventory) ready  Recovery Bucket (check Inventory) ready  Launch Kit (check Inventory)  Balloons (2) 1 3000g  Batteries (check if charged)  Bow Saw  Clean Up Bucket (Broom, Dust Pan, Garbage) reward Badden  Extension Pole  Functioning Radios and GPS  Helium  Machete (Sheve)  Parachute and Ring + Assembled Command Module kit  Phone Chargers  Power Inverter  Scythe  Sling Shot  Radios/GPS  Tarp (Big and Small)  Tracking Antennas  Van Keys  Walkie-Talkies 3/3  Paylocks

/	/		
V	Wi-Fi	hots	pot

## **FAA Notification Checklist**

File NOTAM (6 hours prior) via fax: 703-777-8807
Call NOTAM desk (866-225-7410 ext 9) to verify that fax came through
and get assigned NOTAM number:
NOTAM #
Call Washington Center (2 hours prior): 703-771-3470
Call HGR Tower 301-797-2039 at 7am
Radios + Callsigns Checklist  Command Module:  Main tracking van:  Second tracking van:  Specific payloads:
Others:

### PRE-LAUNCH MEETING / PRE-LAUNCH DAY

✓ Launch Confirmation/Postponement Email Print Contact Information Sheet (Payload Comm, Comm Officer, etc.) Pre-Launch Meeting

- Everyone should have signed a waiver: new ones collected, sign-In sheet for other visitors
- Everyone needs to decide right now where they are going after the launch: chase, or home?
- Chase Vehicles will need to leave semi-immediately (so go potty now and be ready to leave right after release)
- Everyone helps clean up, so we can get out efficiently

## **Final Checks**

✓ Waiver Check
✓ Weather Check
✓ Ground Track Check

# **Launch Day**

Turtlenest on @ 9:09 GPS lock @ 9:15

On launch pad
Parachute to Balloon lanyard configured
Parachute and Ring assembled
Command Module in place
Payload string lined up and assembled
Harmless payload stickers on each payload  Payload string weighed: Necessary Free Lift =
Antennas in place
/ No sharp edges or weak links
Pre-Inflation Checklist
Helium Tanks uncovered and regulator hooked up
Hook lanyard from parachute around balloon neck before
connecting to inflation tube!
Instructions and Gloves to BLT anchors
Instructions given to tether handlers & tether in place
Full payload string laid out and ready to go  Balloon in BLT ready to go
Balloon in BET ready to go
Inflation
BLT Instructions: (Always use BLT!!!)
Lay out BLT with inside facing up (Velcro side down). Immediately fold
together to prevent moisture from getting inside the BLT.
When ready for inflation, Place balloon in the center with the neck
făcing one open end.
Fold around the balloon, the Velcro seem should be towards one side
so it doesn't end up on the top when fully inflated  Designate people to hold BLT down. (At least 4 people)
Designate people to floid BET down: (At least 4 people)
Start inflating at max flow rate
Inflation Complete: Measure Total Free Lift =
Dra Balagga Chacklist
Pre-Release Checklist Check payloads are ready

Countdown & Release  All Payloads turned on Raise Stack above pad in full flight configuration Telemetry and Downlink good Tether handlers ready Countdown from 10
Countdown from 10 Release
Release Time Mark =
Initial Heading of Flight =
Post launch (during chase) Call Washington Center 60,000 ft Burst Landing