Flight Director Checklist

NS-<u>57</u>

_	-aunch Date =	
	Attempt Number = # 1 ?	
Payloads:	Helps	1.7516
	Command	4.5 (bs
	Cloud 360	1:3 (65
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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) Inflation Bucket (check Inventory) Recovery Bucket (check Inventory) Launch Kit (check Inventory) Balloons (2) Batteries (check if charged) Bow Saw Clean Up Bucket (Broom, Dust Pan, Garbage) Extension Pole Functioning Radios and GPS Helium Machete Parachute and Ring + Assembled Command Module kit
Payloads Phone Chargers Power Inverter Scythe Soldering Iron & wire Sling Shot Spare LVCs Radios/GPS

Torn (Pig and Small)
Tarp (Big and Small) Tracking Antennas
Tree Climbing Gear
Van Keys
Walkie-Talkies Charges 2/3
Walkie-Talkies Charges 2/3 Wi-Fi hotspot Charges 2/3 900s Ground station
900s Ground station
FAA Notification Checklist
File NOTAM (6 hours prior)
Call NOTAM desk (866-225-7410 ext 9) to get 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:
Command Module:
Command Module:Main tracking van:
Command Module:
Command Module: Main tracking van: Second tracking van: Specific payloads: Others:
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Command Module: Main tracking van: Second tracking van: Specific payloads: Others: PRE-LAUNCH MEETING / PRE-LAUNCH DAY Launch Confirmation/Postponement Email Pre-Launch Meeting
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- Chase Vehicles will need to leave semi-immediately be ready to leave within 5-10 minutes of launch
- Everyone helps clean up, so we can get out efficiently

Final Checks
Waiver Check
Waiver Check Weather Check
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Zello Check

Launch Day

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
No sharp edges of weak links
Pre-Inflation Checklist
Helium Tanks uncovered and regulator hooked up
Hook lanyard from parachute around balloon neck before
Instructions and Gloves to BLT anchors helps
Instructions given to tether handlers & tether in place
Full payload string laid out and ready to go
Balloon in BLT 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 BI T
When ready for inflation, Place balloon in the center with the neck
facing 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)
Start inflating at max flow rate
Inflation Complete: Measure Total Free Lift =
Pre-Release Checklist
Check payloads are ready
Good final communications check

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