Flight Director Checklist

NS-58

Launch Location = Hangerstown Community	4 College
Launch Date = Sept. 17, 2016	
Attempt Number =	_
2000 g Balloon	
Payloads: / Helias	~ 1.75 lb
Cm d	~4.566
L Cloud 366	~ 1,6lb
Tyrion (mini bath's book)	~ 1.11%
Irene	~ 0.866
Scorch	~ 0.7lb
MAR3	~0.76
V V Data Pigees A	~ z,5lb

Comments:

Divers: Tyler B. Dale W. - Allday

Michael walker - own } 6 Liddy Vehichle } Seats

One Month in Advance: Vehicle Rental (check that outlets work) Helium Ordered X 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

<u>V</u> :	Tarp (Big and Small)
V	Tracking Antennas
V	Tree Climbing Gear
	Van Keys
/	Walkie-Talkies
_V)	Wi-Fi hotspot
\angle	900s Ground station
FAA	Notification Checklist
./.	
	File NOTAM (6 hours prior)
(Call NOTAM desk (866-225-7410 ext 9) to get NOTAM number:
	NOTAM # HGR04/006
	Call Washington Center (2 hours prior): 703-771-3470
(Call HGR Tower 301-797-2039 at 7am
Com	mand Module:
Main Seco	
Main Seco	mand Module: tracking van: and tracking van: sific payloads:
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Main Seco Special Othe PRE-	mand Module: tracking van: ond tracking van: eific payloads: -LAUNCH MEETING / PRE-LAUNCH DAY -aunch Confirmation/Postponement Email Launch Meeting Everyone should have signed a waiver: new ones collected, sign-Ir
Othe PRE-	mand Module:

- 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

Fin	ai Cnecks
	Waiver Check
	Weather Check
	Ground Track Check
	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
To onally edges of weak lifting
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
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
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)
Designate people to floid 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)