Flight Director Checklist

NS-<u>63</u>

	Launch Location = Clear Sping Flementary
	Launch Date = Sawday April 15, 2017
	Attempt Number =
Payloads:	Cm Z
	VIROE
	Trap Sort Buin
	DROP
	Turke Dear
	Un: Cond
	HASP

Comments:

One Month in Advance: Vehicle Rental (check that outlets work) Helium Ordered HAM Radio Club notified about using UM	∕lD's call sign
Launch Week	1
Pre-Flight Planning Checklist Send the launch announcement email Create Zello station UMD NS - 63 Print waivers Preliminary weather check Preliminary ground track check Payloads determined and ordered Vehicles identified and configured for trace	cking
Pre-Flight Systems Checklist BLT Bucket (check Inventory) Inflation Bucket (check Inventory) Recovery Bucket (check Inventory) Launch Kit (check Inventory) Balloons (2) Size of balloon 1 100 a Batteries (check if charged) Bow Saw Extension Pole Functioning Radios and GPS Helium igates Machete Parachute and Ring + Assembled Comm Payloads Phone Chargers Power Inverter Scythe Soldering Iron & wire ~in recovery backet Sling Shot Spare LVCs Radios/GPS	Size of balloon 2 1600 g

Tie in complete Exempt payloads: Tracking Antennas Van Keys Walkie-Talkies 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:
Others:
PRE-LAUNCH MEETING / PRE-LAUNCH DAY
Launch Confirmation/Postponement Email Pre-Launch Meeting • Everyone should have signed a waiver: new ones collected, sign-In sheet for other visitors
• Launch time goal: 8.30
 Assign/prepare for jobs (BLT, Comms, Nav, etc.)

- 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	
	Weather Check	
V	Ground Track Check	
	Zello Check	

Launch Day

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
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)
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 =		
5 5 <u>————</u>		
Post launch (during chase)		
,		