### Launch Director Checklist

NS-67/68

	· ·	lagerstown Communit July 15th , 2017	y Cullege
Payload Lineup:	Helios	Mini-Command	
	Command	HTB-1	
	VIRDE	SKY. O	<del></del> -
	TUITLE NEST	Space Plant	
	BULH'S BUX	Space Pong	
	T. e. d.	Filter	<del></del> :
	PHANTOM	Skywet	
		Water Bancor	<u> </u>
	3	SLAMPUNK	

Balloon Size(s):  $1600 g \times 2$ 

Callsigns: W3EAX - 8 4 12 NS-67 W3EAX - 13 4 14 NS-68

- Command critical
- charge Hot spots
_ Charge Hot spots _ Charge Car battery Pre-Flight Checklist
V BLT Bucket _ Strings ; things
Check Inventory of:  V BLT Bucket  V Inflation Bucket  STRINGS THINGS  STRINGS THINGS  STRINGS THINGS
✓ Recovery Bucket
Launch Kit γηνε ανη
Main tracking box
Launch Equipment
Balloons
Helium tanks
Tarp (Big and Small)
✓ Parachute and Ring NUSSIF
Command Module kit
Broom
Recovery
Bow Saw
Extension Pole <del>Machete</del>
Scythe
✓ Sling Shot
Payloads
V Batteries (Car battery)
✓ Soldering Iron & wire
Spare LVCs
Tracking/Communications / tracking/Communications
$\frac{\sqrt{\alpha}}{\sqrt{\alpha}}$ Tracking Antennas $\frac{\sqrt{\alpha}}{\sqrt{\alpha}}$
900s Ground station
Radios a <del>nd GPS</del>
- CAPS TRIPPES?

WINT H	igates (move to main tracking his) Ground States
	Launch/Inflation Setup  Pre-launch setup meeting (See PAO)  Tarp setup (indicate full or half configuration)  Place BLT in optimal launch location  Indication direction of payload string from balloon  Parachute-to-balloon lanyard configured  Parachute and ring untangled  Command Module in place  Harmless payload string lined up and assembled
	Pre-Inflation Checklist  Tethers in Place  Brief 2 tether handlers (See PAO)  Balloon in BLT ready to go (See BLT Engineer)  Pre-Release Checklist  Check payloads are ready  Final communications check  Countdown & Release
	Inform payload PoCs to hold payloads above the launch pad

- charge hotspots
-weigh tambo wil cop
- trash had

	Tether handlers ready	
	Slowly raise payload string	
	Measure Total Free Lift = (optional)	
	Countdown from 10 (Final Countdown Song Optional	)
	Release!	
Relea	se Time Mark =	

## Dr. Bowden Checklist

NS-\_\_\_\_

Launch date:					
Pre-Flight Checklist					
Vehicle Rental					
Helium Ordered					
Print waivers					
Launch Day Checklist					
FAA 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 (1 hour prior): 301-797-2039					

# **BLT** Engineer

NS-\_\_\_

	Brief 4 BLT anchors (see PAO).				
	Give instructions and gloves to v	olunteers.			
 toget	Lay out BLT with inside facing up ther to prevent moisture from get	-			nmediately fold
	Use broom to remove any exces	s particles.			
	When ready for inflation, place t	he balloon	in the	cente	er with the neck
facing	g one open end.				
	Fold around the balloon. The Ve	lcro seem s	should	be to	wards one side so i
doesr	n't end up on the top when fully ir	nflated.			
<u>.</u>	Inform Launch Director that the b	alloon is re	eady to	be ir	nflated.
*	Be wary of the balloun	sirpping	0Wt	the	sicle.

## Public Affairs Officer Checklist

NS-<u>67/68</u>

Launch date:	
Pre-Flight Checklist	
Two Weeks Before	
Send launch announcement	
Tweet it!	
Create Slack Channel	
Create Zello Channel	
Wednesday Before (or after Go/NoGo Meeting)	
Send launch confirmation/postponement email	
Tweet it!	
Pre-Launch Checklist	
Swag box	
Flown turtles	
Launch Day Checklist	
Pre-Launch Meeting	
<ul> <li>Everyone should have signed a waiver: new ones collected, sign-in sheet f other visitors</li> </ul>	or
Launch time goal:	
<ul> <li>Ask for 6 volunteers – Direct to 4 to BLT Engineer and 2 to Launch Directo</li> </ul>	r
<ul> <li>Chase Vehicles will need to leave semi-immediately be ready to leave with</li> </ul>	าin

• Everyone helps clean up, so we can get out efficiently

5-10 minutes of launch

• People who are 'Nav's in each van/car should be in the Zello Channel

- o Have short comms check (UMD NS-\_\_\_)
- o Make sure that no more than one person per van has Zello on

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\_\_\_\_ "Let the betting begin!"

\_\_\_\_ "Betting is closed!" (at 20'000 ft)

#### **Command Module 2 Checklist**

NS-\_\_\_

L-1day:
Habduino (Top Plate)
Confirm habduino battery is charged, serial number:, voltage: V
Turn on radios, confirm they get GPS lock, confirm APRS packets are sent
N
Cell Tracker
Confirm cell tracker battery is charged, serial number:, voltage:
$\underline{\hspace{0.1cm} V}$ Turn on cell track, confirm it gets GPS lock, confirm text messages are sent
Confirm positions are logged to SD
Launch Day
Cell Tracker
Tighten Cell Tracker GPS Connection
Cell Tracker SD Card
Tighten Cell tracker cellular connection
Power connection
Clear SD card
Habduino (Top Plate)
Tighten 2M RF Connector (Out the back)
Power connection
Systems Check
Top LVC Switched on
Cell Tracker On
Habduino On
Receive Text from cell tracker
Received Packets from Hab
Place desiccants
Soal Poy