

Launch Director Checklist

NS-69

Launch Location: _____

Launch date: August 21st, 2017

Payload Lineup:

IRENE ✓

SESPA ✓

PARROT ✓

Tyrion ✓

Panaramic ✓

Turtle Nest ✓

UV/IR Leopard ✓

ATOMIC ✓

Balloon Size(s): 3000g

Callsigns:

Pre-Flight Checklist

Charge:

- Car battery
- 2 Wi-fi hotspot(s)
- ~~1~~ Walkie-Talkie(s)

Check Inventory of:

- BLT Bucket ✓
- Inflation Bucket → ~~harness~~ payload → ^{payload} Bucket
- Recovery Bucket ✓
- Launch Kit → ~~pickup wire, tweezers, t-scissors, xacto~~
- Main tracking box ✓ ~~wire cutters, needle-nose pliers~~

Launch Equipment

- Balloons
- Helium tanks (3)
- Tarp (Big and Small)
- Parachute and Ring
- Command Module kit ✓
- Broom ✓
- Trash Bag
- Square Plywood Bases
- Scale for Measuring Payloads ✓

DM Recovery

- Bow Saw
- Extension Pole
- Scythe
- Sling Shot

Payloads

- Car battery
- ^{Large} Battery charger ✓

- ~~Unneeded~~ Battery box ✓
- ~~unneeded~~ Battery Charger ✓
- Payloads ✓
- Soldering Iron & wire ✓
- ~~Spare LVCs~~
- Tyler's Weather Ground Station ✓

Tracking/Communications

- 2 Tracking Laptop(s)
- Tracking Antennas
- 900s Ground station - *not needed (optional)*
- Radios
- 7 Walkie-Talkies
- 2 Wi-Fi hotspot(s)
- Power Inverter
- Power Strip(s)
- Car magnets

Launch Checklist

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 stickers on each payload
- Payload string lined up and assembled

Pre-Inflation Checklist

Hook lanyard from parachute around balloon neck before connecting to inflation tube

Tethers in Place

Brief 2 tether handlers (See PAO)

Did Dr. Bowden call the tower? (See Dr. Bowden)

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

Tether handlers ready

Slowly raise payload string

Measure Total Free Lift = _____ (optional)

Countdown from 10 (Final Countdown Song Optional)

Release!

Release Time Mark = 1:50 1350h

" Recovery

	Main (27964):	Secondary (27967):	Recovery (27965):	Nearspace Shuttle (00140):
1 DRIVER	Dale ✓	Michael S ✓	Chris ✓	Bowden ✓
2 NAV/COMM	Blaire ✓	Mark ✓	Chris Jonathan ✓	Akin ✓
3 FLIGHT	Michael W. ✓	Caitlyn ✓	Chris ✓	Elle ✓
4 RADIO	Luke R. ✓	Brady ✓	Akshay ✓	
5 PAO	Ji Min (our Ji) ✓	Jonathan ✓	Melissa ✓	
6 VIDEO 1	Indah ✓	Katherine Taylor ✓	Dylan ✓	
7 VIDEO 2	Luke J ✓	Ugonna Emuka ✓	Jack ✓	
8 OBSERVER	Ji Eun (other Ji) ✓	Victor Valencia ✓	Jack ✓	
9 OBSERVER				
10 OBSERVER				
11				
12				

Drive

		Main (27964):		Secondary (27967):		Recovery (27965):		Nearspec Shuttle (00140):	
1	DRIVER	Date	✓	Michael W	✓	Blaire	✓	Blair	Blair
2	NAV/COMM	Jonathan	✓	Mark	✓	JI	✓	AKIN	Akin
3	PASSENGER	Brady Sack	✓	Akshay	✓	JI Eun	✓	Ellie	Ellie
4	PASSENGER	Brady		Dylan (M/W)	✓	Blair	✓		
5	PASSENGER	Ugonna Eruka	✓	Luke Johnston	✓	Indah Namira	✓		
6	PASSENGER	Caitlyn		Victor Valencia	✓	Katherine Taylor	✓		
7	PASSENGER			Jack	✓	Blair			
8	PASSENGER								
9	PASSENGER								
10	PASSENGER								
11									
12									

Kat - 856-304-1584
 Indah 240-418-0538
 Victor - 240-~~513-9491~~ 513-9491
 Jonathan - 732-484-9689
 Ugonna - 703-608-9758
 Jack 508-951-0133
 Brady 443-834-6660
 Dylan 410 575 3764
 Mark 240 547 9517
 Luke Johnston 301.710.2545

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 RECOVERY!

EARLY
 } LUKE
 } VICTOR

	MainStay Suites (2671 Dry Pocket Rd, Greer, SC)				Clarion Inn (50 Orchard Park Dr., Greenville, SC)			
	Room 1 (F)	Room 2 (F)	Room 3 (M)	Room 4 (M)	Room 5 (M)	Room 6 (M)	Staff Room	Staff Room
Person 1	Blaire	Caitlyn	Connor	Michael S.	Dylan	Akshay	Andrew Beckett	Akin
Person 2	Indah Namira	JL	Dale	Brady Sack	Luke Johnston	Tate R	Jeffe Bechtel	Bowden
Person 3	Katherine Taylor	JL	Derek W.	Jack	Mark Murnane	Victor Valencia		Ellie
Person 4	Rachel	Melissa	Jonathan	Ugonna Emuka	Michael W.	Jack		
		← Melissa		Chris				
	325	323	309	307				

Blaire
 Pate
 Ugonna
 Jonathan
 di 1
 di 2
 Caitlyn

AKSHAY
 DYLAN
 MARK
 MICHAEL W.
 Ugonna
 Jonathan
 di x 2
 CAITLYN

LUKE

500 E INNES ST - Speedway
 916 Starbucks
 902 Chuck

90'000

95 CHRIS

102 NICK

105 Ji

94 BOWFEN

100 MICHAEL S.

107 Ji - 1

99 QUINN

11 K NASTA
RAMEN 92
93 ZACH

Command Module 1 Checklist

NS- 07 708

Pre-Flight Checklist

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 Habduino GPS Connection ✓
- Tighten 2M RF Connector (Out the back) ✓
- Power connection ✓

8.24 ✓

Habduino (Bottom Plate)

- Tighten Habduino GPS Connection ✓
- Tighten 2M RF Connector (Out the front) ✓
- Power connection ✓

8.32 ✓

Link

- Tighten Antenna Connection (bottom) ✓
- Tighten Antenna Connection (side) ✓
- Power connection ✓

Systems Check

-Top Plate

- Top LVC Switched on ✓
- Cell Tracker On ✓
- Habduino On ✓
- Receive Text from cell tracker ✓
- Received Packets from Hab ✓
- Place desiccants ✓

-Bottom Plate

- Bottom LVC Switched on ✓
- Habduino On ✓
- LINK On ✓
- Received Packets from Hab ✓
- Ground receiving packets from Link and all payloads ✓
- Place desiccants ✓

✓

Seal Box