Flight Director Checklist

NS-49

Launch Location = Clear Spring

Launch Date = 7/18

Attempt Number = ____1___

Payloads:

Host

White Box

Command Module

Turtle Nest

Radar Reflector

8009

2.216/1/19

4 16

Parachute:

Comments:

2120 +416 5,996+4 5,996 16

One Month in Advance:
√ Vehicle Rental (check that outlets work)
V Helium Ordered
HAM Radio Club notified about using UMD's call sign *
IN 3 FAVO 113 TAX 11 10 CO TAIR 10
W3EAX9, W3EAX11, KC3EMR12
Launch Week
Pre-Flight Planning Checklist
✓ Launch Announcement Sent to Email List
Payloads Lined Up
Vehicles identified and configured for tracking
Weather Check
Ground Track Check
Create Zello Station
Print waivers >
Pre-Flight Systems Checklist
Inflation Bucket (check Inventory)
Recovery Bucket (check Inventory)
V Balloon
Backup Balloon
Batteries (check if charged)
J. Bow Saw
Clean Up Bucket (Broom, Dust Pan, Garbage)
— Çardboard Tubes
Extension Pole
Helium
Launch Kit, AKA command module Stuff
Machete *Remind Steve
Parachute and Ring + Assembled Command Module
Payload String + Tubing
Phone Chargers (Reminder to Navigators)
Power Inverter
Scythe Shot
Sling Shot
Spring Scale + digital scale (check batteries)
Sufficient Functioning Radios & GPS

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Tarp Tracking Antennas Van Keys Walkie-Talkies
FAA Notification Checklist
 Notify Secret Service / Air Security Program (ASP@usss.) File NOTAM (6 hours prior) via fax: 703-777-8807 Call NOTAM desk (866-225-7410 ext 9) to verify that fax came through and get assigned 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: W3EAX9, W3EAX-II, KC3EMR-I2 Main tracking van:
Second tracking van:Specific payloads:
Capitol Technology University:

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Launch Day

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 Assignments Still Photographer: Video Photographer: Payload Commander: Balloon Controllers Tether Line Handlers Clean Up Crew Navigators for each Chase Vehicle
 Pre-Launch Meeting Everyone should have signed a waiver New ones collected; Sign-In sheet for other visitors Everyone needs to decide right now where they are going after the launch: chase, HCC station, or home? Chase Vehicles will need to leave semi-immediately (so go potty now and be ready to leave right after release) Those who are not chasing should stick around long enough to clean up and secure everything
Final Checks Weather Check Ground Track Check
Vehicle Integration Parachute to Balloon lanyard configured Parachute and Ring assembled Command Module in place Payload string lined up and assembled "Harmless" tags on payloads Payload string weighed: Necessary Free Lift = Antennas clear No sharp edges, no weak links

Pre-Inflation Checklist
Helium Tanks uncovered and regulator hooked up
Hook lanyard from chute around balloon neck before connecting
to inflation tube!
Instructions and Gloves to balloon handlers
Instructions given to tether handlers & tether in place
Full payload string laid out and ready to go
Get lift measuring setup in place and measure total lift as needed
Oct int measuring setup in place and measure total int as needed
Inflation
Inflation Complete: Messure Total Free Lift -
Start inflating at max flow rate Inflation Complete: Measure Total Free Lift =
Pre-Release Checklist
Clear to Launch (Range Safety)
Payloads Ready (Payload Commander)
Tracking Good (CapComm)
Countdown & Release
All Payloads Switches On
Raise Stack above pad in full flight configuration
✓ Telemetry and Downlink good
Tether handlers ready
<u></u>
Countdown from 10
Release
0.57
Release Time Mark =
117
India I I and in the Elither American
Release Time Mark = $\frac{9.57}{\text{UP}}$ Initial Heading of Flight = $\frac{\text{UP}}{\text{UP}}$

Chase Teams

Tracking =
Back Seat 6 =
Back Seat 7 =
Back Seat 8 =
Back Seat 9 =
Back Seat 10 =
Tracking =
Back Seat 6 =
Back Seat 7 =
Back Seat 8 =
Back Seat 9 =
Back Seat 10 =

Cars:

167203

118:30

48/68

48628