

Launch Director Checklist

Split Launch and Recovery

NS-74

Launch Location: MERCERSBURG MIDDLE SCHOOL

Launch date: ~~11/20/18~~ 11/27/18

Payload Lineup:

~~COMMAND~~ MARS D

COMMAND

THE SUN!

~~PANORAMIC~~ TYPON

MARS D |

TARDIS

Balloon Size(s): 1600 g + pilot (350 or 600g)

Callsigns: W3EAX-8, 12

TARDIS - W3EAX-11

1/27

Pre-Flight Inventory



Charge:

- Car battery
- Wi-fi hotspot(s)
- Walkie-Talkie(s)
- Tracking Laptops

Check Inventory of:

- BLT Bucket
- Inflation Bucket ~~missing clamp~~
- Recovery Bucket - missing ziploc bags
- Launch Kit - ~~needs more desiccant~~
~~spare connector box~~
~~power unit~~
- Main tracking box

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Pre-Flight Packing List

Launch Vehicle: ~~2A~~

- Inflation Equipment - ~~Bowden~~
- Balloons
- Helium tanks (3)
- Tarp (Big)
- Parachute and Ring
- Command Module kit
- Broom
- ~~Trash Bag~~
- Square Plywood Bases (2)
- Scale for Measuring Payloads

Payloads - 7

- Battery box
- Battery Charger
- Payloads
- Soldering Iron & wire
- ~~Spare LVCs - don't exist~~

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1/27

Tyler's Weather Ground Station

Kits/Buckets

- BLT Bucket - 7
- Inflation Bucket - 7
- Launch Kit - 12
- Main tracking box - Nassif

Tracking/Communications

- Tracking Laptop
- Tracking Antennas
- 900s Ground station
- Radios
- Walkie-Talkies
- Wi-Fi hotspot
- Power Inverter
- Car magnets
- Mag is 6

Recovery Vehicle: 27964

- Recovery - 12
- Bow Saw *42*
- Extension Pole
- Scythe
- Sling Shot
- Tarp (Small)

Kits/Buckets

- Recovery Bucket - 12

Tracking/Communications

<input checked="" type="checkbox"/>	Tracking Laptop
<input checked="" type="checkbox"/>	Tracking Antennas
<input checked="" type="checkbox"/>	Radios
<input checked="" type="checkbox"/>	Walkie-Talkies
<input checked="" type="checkbox"/>	Wi-Fi hotspot
<input checked="" type="checkbox"/>	Power Strip(s)
<input checked="" type="checkbox"/>	Car magnets
<input checked="" type="checkbox"/>	Car battery

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
- Call tower @ ± 10 minutes

Countdown & Release

- Inform payload PoCs to hold payloads above the launch pad
- Tether handlers ready
- Slowly raise payload string
- Measure Total Free Lift = optional (optional) (kinda optional)
- Countdown from 10 (Final Countdown Song Optional)
- Release!

Release Time Mark = 10:00 am

* Hold @ ~ 9:45 for no tracking packet >