**Team #\_\_\_ Flight Code Testing Checklist Run #\_\_\_\_**

Date: \_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Flight Code Verifications***  **(Optional If Already Completed)** | | | | |
| Arduino connected to Computer via USB |  | | Connected? (Y/N) | |
| Armed power |  | | Red ARM LED (Y/N) | |
| G-switch |  | | Green ON LED (Y/N) | |
| PULL DATA Jumper installed |  | | Installed (Y/N)  Blue LED Solid if PULL DATA Installed | |
| Flight Code Compiled |  | | (Y/N) | |
| Flight Code Uploaded |  | | (Y/N) | |
| Verify Blink Pattern |  | | Blinking Yellow LED  (Y/N) | |
| ***Connection Verifications*** | | | | |
| Arduino disconnected from Laptop |  | | Disconnected? (Y/N) | |
| High Z Accel |  | | Connected? (Y/N) | |
| RBF Jumper |  | | Connected? (Y/N) | |
| G-Switch |  | | Connected? (Y/N) | |
| ARM LED (Red) |  | | Connected? (Y/N) | |
| Geiger Disconnected\* |  | | Disconnected? (Y/N) | |
| Batteries  (not flight)\* |  | | Connected? (Y/N) | |
| Armed Power |  | | Red ARM LED (Y/N) | |
| Remove PULL DATA jumper |  | | Removed (Y/N) | |
| G-Switch Triggered |  | | Green ON LED (Y/N) | |
| Stopwatch Started |  | | (Y/N) | |
| Verify Blink Pattern |  | | Blinking Yellow LED  (Y/N) | |
| ***Accelerometer*** | | | | |
| SHIELD Board Flat | |  | 10 Seconds | |
| X-Accel Up | |  | 10 Seconds | |
| X-Accel Down | |  | 10 Seconds | |
| Y-Accel Up | |  | 10 Seconds | |
| Y-Accel Down | |  | 10 Seconds | |
| Z-Accel Up | |  | 10 Seconds | |
| Z-Accel Down | |  | 10 Seconds | |
| SHIELD Board Flat | |  | 10 seconds | |
| HIGH Z-Accel Up | |  | 10 seconds | |
| HIGH Z-Accel Down | |  | 10 seconds | |
| ***Pressure*** | | | | |
| Suck lightly with straw | |  | 15 seconds | |
| Puff lightly into straw | |  | 3 seconds | |
| Wait | |  | 15 seconds | |
| ***Temperature*** | | | | |
| Touch sensor | |  | 15 seconds | |
| Wait | |  | 15 seconds | |
| Touch sensor | |  | 15 seconds | |
| Wait | |  | 15 seconds | |
| ***Gyro*** | | | | |
| X-Axis Counter-Clockwise | |  | | 5 seconds |
| X-Axis  Clockwise | |  | | 5 seconds |
| Y-Axis Counter-Clockwise | |  | | 5 seconds |
| Y-Axis Clockwise | |  | | 5 seconds |
| Z-Axis Counter-Clockwise | |  | | 5 seconds |
| Z-Axis Clockwise | |  | | 5 seconds |
| SHIELD Board Flat | |  | | 10 seconds |
| ***Geiger Counter*** | | | | |
| Connect Geiger Counter | |  | | Connected? (Y/N) |
| Record Background Radiation | |  | | 20 seconds |
| Apply Radiation Source | |  | | 60 seconds |
| Remove Radiation Source | |  | | (Y/N) |
| Record Background Radiation | |  | | 15 seconds |
| ***Humidity + End of Data*** | | | | |
| Breathe on Humidity Sensor | |  | | 15 seconds |
| Breathe on Humidity Sensor | |  | | 15 seconds |
| Wait | |  | | 60 seconds |
| Shake Board  Gently | |  | | 5 seconds |
| Disconnect Power | |  | | Disconnected? (Y/N) |
| ***Retrieve Data*** | | | | |
| Eject SD Card | |  | | (Y/N) |
| Copy CSV Files to Laptop | |  | | (Y/N) |
| Open CSV file with spreadsheet | |  | | (Y/N) |
| Graph each sensor | |  | | (Y/N) |
| Verify each graph looks correct  (Recommend have a RockOn Staff check first couple times) | |  | | (Y/N) |
| Save your Spreadsheet to your laptop | |  | | (Y/N) |
| Erase files on SD Card | |  | | (Y/N) |
| Empty Trash or Recycle Bin on your laptop | |  | | (Y/N) |
| Properly eject SD card from laptop | |  | | (Y/N) |
| Insert SD card into RockOn Shield | |  | | (Y/N) |
| Flight Code Uploaded | |  | | (Y/N) |
| Verify READY Mode with LEDA & LED B | |  | | Solid A then Short A, Short A, Short B, Short B |