



Vehicle Status

| Item/Procedure              | Readings                                                 | Comments             | Initials                            |
|-----------------------------|----------------------------------------------------------|----------------------|-------------------------------------|
| Battery [Wh] > 700 Wh       | 878.53<br>//                                             | <input type="text"/> | <input checked="" type="checkbox"/> |
| Solar Power Indicators: > 0 | 14.294<br>0.0<br>11.869<br>9.231<br>//<br>//<br>//<br>// | <input type="text"/> | <input checked="" type="checkbox"/> |

| Item/Procedure                                                                                   | Readings             |                  |                |                             |  | Comments             | Initials                            |
|--------------------------------------------------------------------------------------------------|----------------------|------------------|----------------|-----------------------------|--|----------------------|-------------------------------------|
| Domain Info                                                                                      | AMPS Hardware Status | Temperature (°C) | Pressure (kPa) | Hardware Uptime             |  |                      |                                     |
| Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y                              | OK //                | 20.7 //          | 116.6 //       | Uptime: 0 days, 00:42:01 // |  | <input type="text"/> | <input checked="" type="checkbox"/> |
| Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y                         | OK //                | 19.8 //          | 143.2 //       | Uptime: 0 days, 00:34:01 // |  | <input type="text"/> | <input checked="" type="checkbox"/> |
| Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y | OK //                | 18.4 //          | 113.6 //       | Uptime: 0 days, 00:22:55 // |  | <input type="text"/> | <input checked="" type="checkbox"/> |

Mechanical Checks

|       | Item/Procedure                    | Specifications                                            | Comments             | Initials                            |
|-------|-----------------------------------|-----------------------------------------------------------|----------------------|-------------------------------------|
| Float | Wet-mates connected/lubed         | 3M Silicone Lubricant Spray 3M ID No. 62-4678-4930-3      | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Connector covers secure           |                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Drybox secure                     | Wiggle test                                               | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Contact info secure               |                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Hull                              | Inspect, note condition                                   | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Skeg/Fin                          | Secure                                                    | <input type="text"/> | <input checked="" type="checkbox"/> |
| Sub   | Hardware secure                   |                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Umbilical visual inspection       | Free of voids/defects                                     | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Umbilical ribbon cable inspection |                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Roll pins inserted                | Flush with surface                                        | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Wings                             | Hardware secure with Loctite, lock nuts, and seizing wire | <input type="text"/> | <input checked="" type="checkbox"/> |
|       | Thruder                           | Hardware secure                                           | <input type="text"/> | <input checked="" type="checkbox"/> |

Vehicle Functionality

| Item/Procedure              | Readings                                                                                                                                                                                                                          | Specifications                           | Comments             | Initials                            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------|-------------------------------------|
| Thruster Spin               | 455.0<br>//                                                                                                                                                                                                                       | Spins freely, slow and fast speeds       | <input type="text"/> | <input checked="" type="checkbox"/> |
| Rudder Range of Motion      |                                                                                                                                                                                                                                   | Rudder moves freely and smoothly         | <input type="text"/> | <input checked="" type="checkbox"/> |
| Rudder right, left, center  | Rudder(2022-03-10T00:22:03.756Z,desiredHeading=284.9,compass=193.2,rack=13,post=19.4rudderStatus=0) //                                                                                                                            | Right, Left, Center                      | <input type="text"/> | <input checked="" type="checkbox"/> |
| Thruder Compass Correction  | Thruder compass is corrected //                                                                                                                                                                                                   | recommended NOT corrected                | LR says this is okay | <input checked="" type="checkbox"/> |
| Fixed heading test (spin)   | 180                                                                                                                                                                                                                               | Avoidance Off, Note Heading Used         | <input type="text"/> | <input checked="" type="checkbox"/> |
| Waypoint course test (spin) | 41                                                                                                                                                                                                                                | Avoidance Off, Note Waypoint Course Used | <input type="text"/> | <input checked="" type="checkbox"/> |
| Buoy Release Mechanism      | device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (37m28.428s), ampsPower=false, powerThreadActive=false //                                                                                    | Catch release buoy by hand               | <input type="text"/> | <input checked="" type="checkbox"/> |
| Octopus Cable 01            | OK //                                                                                                                                                                                                                             | Must Pass                                | <input type="text"/> | <input checked="" type="checkbox"/> |
| Octopus Cable 02            | OK //                                                                                                                                                                                                                             | Must Pass                                | <input type="text"/> | <input checked="" type="checkbox"/> |
| AIS Status                  | lastSeen=MMSI 366966550 (OCEAN ANGEL 2). Pos=36.804858, -121.784955. t=30:0:NOT_DEFINED, 2022-03-10T00:22:06.753Z, lengthErrs=0, latLonErrs=0, broadcastCount=558, lastRx=4.024s, numberObserved=7, averageRxRateMillis=2.258s // | If in harbor, must see MMSI              | <input type="text"/> | <input checked="" type="checkbox"/> |
| Photo Document              |                                                                                                                                                                                                                                   |                                          | <input type="text"/> | <input checked="" type="checkbox"/> |

Vehicle Communication and Telemetry

| Item/Procedure            | Readings / Specifications                                                                                                                                                                                                                                                                                                                                                                 | Comments             | Initials                            |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|
| WX reporting              | Temp=10.4°C, Press=1013.7mb, Wind Speed=7.12kn, Wind Dir=292.5°. Heading=290.0° //                                                                                                                                                                                                                                                                                                        | <input type="text"/> | <input checked="" type="checkbox"/> |
| UBLOX GPS                 | 2022-03-10T00:22:10Z@36.802366,-121.7871497,lastRx=0.458s, quality=100, timeout=1m, nmeaValid=true, clockDt=0.832s, lastValidFix=2022-03-10T00:22:10Z@36.802366,-121.7871497, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.86,std=0.35,min=10.00,max=11.00,n=300,hdop:sma=0.86,std=0.08,min=0.80,max=1.10,n=300,altitude:sma=2.80,std=0.92,min=0.80,max=4.90, //            | <input type="text"/> | <input checked="" type="checkbox"/> |
| Airmar GPS                | 2022-03-10T00:22:10.100Z@36.8023533,-121.7871683,lastRx=0.425s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.782s, lastValidFix=2022-03-10T00:22:10.100Z@36.8023533,-121.7871683, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=7.81,std=0.39,min=7.00,max=8.00,n=300,hdop:sma=1.12,std=0.04,min=1.10,max=1.20,n=300,altitude:sma=5.37,std=0.64,min=4.50,max=6.40,n=300 // | <input type="text"/> | <input checked="" type="checkbox"/> |
| Torpedo GPS               | Not Available! //                                                                                                                                                                                                                                                                                                                                                                         | <input type="text"/> | <input checked="" type="checkbox"/> |
| Water speed readings      | Unknown speed; ncc=0, nci=0, tec=0, aip=0.00 //                                                                                                                                                                                                                                                                                                                                           | <input type="text"/> | <input checked="" type="checkbox"/> |
| Obstacle Avoidance Status | Enabled //                                                                                                                                                                                                                                                                                                                                                                                | <input type="text"/> | <input checked="" type="checkbox"/> |
| Check alarms              | "Out of bounds" red. All yellow/green                                                                                                                                                                                                                                                                                                                                                     | <input type="text"/> | <input checked="" type="checkbox"/> |

General Comments

Just did umbilical maintenance today, remember to check everything after the deployment!  
VR2C removed for maintenance.

Technician Signature:

- Note: Once vehicle is launched the following tasks must be completed
- 1. Clear alarms
  - 2. Log vehicle modifications in notebook
  - 3. Vehicle on mission
  - 4. Create *LAUNCHED* comment into WGMS
  - 5. Upload photos to gallery website with album name: YYYY-MM-DD *VehicleName*

Submit

Print

Clear User Input