



## Tiny: SV3 Pre-Launch Checklist

## SV3 Pre-Launch Checklist

|              |                                                             |              |                                                                              |
|--------------|-------------------------------------------------------------|--------------|------------------------------------------------------------------------------|
| Date         | <input type="text" value="2015-04-22T14:45:09.571Z"/>       | Glider Name  | <input type="text" value="SV3-794595959(Tiny)"/>                             |
| Tech(s)      | <input type="text" value="Chris wahl"/>                     | Organization | <input type="text" value="mbari"/>                                           |
| Payload(s)   | <input type="text" value="s1 hotspot, s2 gpctd+do, s3 oa"/> | Project      | <input type="text" value="canon/ecohab"/>                                    |
| Ship/Op Area | <input type="text" value="Monterey Bay and ano nuevo"/>     | Location     | <input type="text" value="Using GPSUblox declination=13.453891, failoverC"/> |

## Software Information

|    |                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------|
| Id | <input type="text" value="Tiny, Running Regulus software version of 2015-02-08T22:15:44.913Z, production build 65"/> |
|----|----------------------------------------------------------------------------------------------------------------------|

## Communication

| Item/Procedure             | Readings                                                                                                                                   | Initials                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| WiFi Connection            | <input type="text" value="WiFi is On"/>                                                                                                    | <input checked="" type="checkbox"/> |
| Virtual Relay              | <input type="text" value="ON. 0 queued msgs (Max=2147483647). Channel is TALKING.(19/19 success rate) sleepTime=300000 packetSiz"/>        | <input checked="" type="checkbox"/> |
| WGMS Iridium               | <input "="" type="text" value="ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0, sessionErrors="/> | <input checked="" type="checkbox"/> |
| Vehicle telemetry received |                                                                                                                                            | <input checked="" type="checkbox"/> |
| Tracker telemetry received | <b>Battery (bars)</b> <input type="text"/><br><b>Report Rate</b> <input type="text"/>                                                      | <input type="checkbox"/>            |

## Configuration

| Item/Procedure                      | Readings                                  | Specifications                                  | Initials                            |
|-------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------|
| Topside RDF Frequency               | <input type="text" value="n/a"/>          |                                                 | <input type="checkbox"/>            |
| Hull RDF Frequency                  | <input type="text" value="n/a"/>          |                                                 | <input type="checkbox"/>            |
| Tracker WGMS name                   | <input type="text" value="tiny tracker"/> |                                                 | <input checked="" type="checkbox"/> |
| Drybox WGMS name                    | <input type="text" value="tiny"/>         |                                                 | <input checked="" type="checkbox"/> |
| Float name                          | <input type="text" value="sv3-011"/>      |                                                 | <input checked="" type="checkbox"/> |
| Glider name                         | <input type="text" value="tiny"/>         |                                                 | <input checked="" type="checkbox"/> |
| Thruder Serial Number               | <input type="text" value="450021"/>       | Last 6 digits of Hardware ID found on AMPS page | <input checked="" type="checkbox"/> |
| Event definitions                   |                                           | Compare against standard list                   | <input type="checkbox"/>            |
| Vehicle and tracker op area defined | <input type="text"/>                      | Note area name(s) and enable alarms             | <input checked="" type="checkbox"/> |
| Escalation list created/populated   |                                           |                                                 | <input checked="" type="checkbox"/> |

## Vehicle Status

| Item/Procedure              | Readings                                                                                                                                           | Initials                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Battery [Wh] > 700 Wh       | <input type="text" value="852.711"/>                                                                                                               | <input checked="" type="checkbox"/> |
| Solar Power Indicators: > 0 | <input type="text" value="1.327"/><br><input type="text" value="0.0"/><br><input type="text" value="1.333"/><br><input type="text" value="1.418"/> | <input checked="" type="checkbox"/> |

| Item/Procedure                                                         | Readings                        |                                   |                                    |                                                       | Initials                            |
|------------------------------------------------------------------------|---------------------------------|-----------------------------------|------------------------------------|-------------------------------------------------------|-------------------------------------|
| Domain Info                                                            | AMPS Hardware Status            | Temperature (°C)                  | Pressure (kPa)                     | Hardware Uptime                                       |                                     |
| Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y    | <input type="text" value="OK"/> | <input type="text" value="14.3"/> | <input type="text" value="112.4"/> | <input type="text" value="Uptime: 0 days, 00:19:37"/> | <input checked="" type="checkbox"/> |
| Domain_Name=Thruder, Node=4, HW_SerNum=0x333351143733303000450021 On=Y | <input type="text" value="OK"/> | <input type="text" value="12.1"/> | <input type="text" value="186.8"/> | <input type="text" value="Uptime: 0 days, 00:12:25"/> | <input checked="" type="checkbox"/> |

|                                                                                                   |                                 |                                   |                                    |                                                       |                                     |
|---------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|------------------------------------|-------------------------------------------------------|-------------------------------------|
| Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y | <input type="text" value="OK"/> | <input type="text" value="13.2"/> | <input type="text" value="124.3"/> | <input type="text" value="Uptime: 0 days, 00:11:58"/> | <input checked="" type="checkbox"/> |
|---------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|------------------------------------|-------------------------------------------------------|-------------------------------------|

#### Mechanical Checks

|       | Item/Procedure              | Specifications                                        | Initials                            |
|-------|-----------------------------|-------------------------------------------------------|-------------------------------------|
| Float | Wet-mates connected/lubed   | 3M Silicone Lubricant Spray: 3M ID No. 62-4678-4930-3 | <input checked="" type="checkbox"/> |
|       | Connector covers secure     |                                                       | <input checked="" type="checkbox"/> |
|       | Drybox secure               | Wiggle test                                           | <input checked="" type="checkbox"/> |
|       | Contact info secure         |                                                       | <input checked="" type="checkbox"/> |
|       | Hull                        | Free of cracks and dings                              | <input checked="" type="checkbox"/> |
|       | Skeg/Fin                    | Secure                                                | <input checked="" type="checkbox"/> |
| Sub   | Hardware secure             |                                                       | <input checked="" type="checkbox"/> |
|       | Umbilical visual inspection | Free of voids/defects                                 | <input checked="" type="checkbox"/> |
|       | Roll pins inserted          | Flushed with surface                                  | <input checked="" type="checkbox"/> |
|       | Wings                       | Hardware secure with Loctite and Lock Nuts            | <input checked="" type="checkbox"/> |
|       | Thruder                     | Hardware secure                                       | <input checked="" type="checkbox"/> |

#### Vehicle Functionality

| Item/Procedure              | Readings                                                                                                         | Specifications                           | Initials                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|
| Thruster Spin               | <input type="text" value="0.0"/>                                                                                 | Spins freely, slow and fast speeds       | <input checked="" type="checkbox"/> |
| Rudder Range of Motion      |                                                                                                                  | Rudder moves freely and smoothly         | <input checked="" type="checkbox"/> |
| Rudder right, left, center  | <input type="text" value="Rudder(2015-04-22T14:45:07.400Z,desiredHeading=299,compass=283,rack=15.7,post=16.5)"/> | Right, Left, Center                      | <input checked="" type="checkbox"/> |
| Thruder Compass Correction  | <input type="text" value="Thruder compass is NOT corrected"/>                                                    |                                          | <input type="checkbox"/>            |
| Fixed heading test (spin)   | <input type="text" value="270"/>                                                                                 | Avoidance Off, Note Heading Used         | <input checked="" type="checkbox"/> |
| Waypoint course test (spin) | <input "="" type="text" value="?"/>                                                                              | Avoidance Off, Note Waypoint Course Used | <input type="checkbox"/>            |
| Buoy Release Mechanism      | <input type="text" value="device is disarmed, deviceState=OFF, deployCounter=0"/>                                | Catch release buoy by hand               | <input checked="" type="checkbox"/> |
| Octopus Cable 01            | <input type="text" value="OK"/>                                                                                  | Must Pass                                | <input checked="" type="checkbox"/> |
| Octopus Cable 02            | <input type="text" value="OK"/>                                                                                  | Must Pass                                | <input checked="" type="checkbox"/> |
| AIS Status                  | <input type="text" value="No AIS reports yet received"/>                                                         | If in harbor, must see MMSI              | <input checked="" type="checkbox"/> |
| Photo Document              |                                                                                                                  |                                          | <input type="checkbox"/>            |

#### Vehicle Communication and Telemetry

| Item/Procedure               | Readings / Specifications                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| WX reporting                 | <input type="text" value="Temp=4.3°C, Press=1012.7mb, Wind Speed=3.32kn, Wind Dir=193.9°. Heading=301.2°"/> |
| UBLOX GPS                    | <input type="text" value="At [36.80103583, -121.78873333] @ 2015-04-22T14:45:12Z, quality=100"/>            |
| Airmar GPS                   | <input type="text" value="At [36.80103000, -121.78873000] @ 2015-04-22T14:45:11.700Z, quality=80"/>         |
| Torpedo GPS                  | <input type="text" value="At [36.80103640, -121.78874807] @ 2015-04-22T14:45:07Z, quality=65"/>             |
| Water speed readings         | <input type="text" value="Out of the water; Unknown speed; Not yet running"/>                               |
| Obstacle Avoidance Status    | <input type="text" value="Disabled"/>                                                                       |
| RDF beacon tested w/receiver |                                                                                                             |
| Check alarms                 | <input all="" green"="" red.="" type="text" value="Out of bounds" yellow=""/>                               |

#### Comments

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Umbellical twisted, untwist before deployment.  
Repairs to umbellical bubbles have come off, needs repair.  
Emergency contact info has started to come off.  
Solar panels were working yesterday, pretty dark now...

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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*