LIQUID ROBOTICS 888 574 4574 (US) +1 408 636 4205 (International) support@liquidr.com

SV3-794595959 "**Tiny**" Version:1.1.1 User:cwahl 876Wh INET Hold DRY WiFi 2019-05-02T20:57:52.440Z

Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2019-05-02T20:57:52.473Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s2, s3, g2 and g3	Project	BOG timeseries/AZA check
Ship/Op Area	Paragon MB	Location	Using GPSUblox declination=13.031806, fails

Software Information

Id	Tiny, sn=794595959, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, productior

Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☑
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING.(124/124 success rate) sleepTime=60000 pa	☑
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is ATTEMPTING. IMEI:300434060708190, consecutiveErrors	☑
Vehicle telemetry received		☑
Tracker telemetry received	**Battery (bars)** 15.7 volts **Report Rate** 4 hrs	☑

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	n/a		☐
Hull RDF Frequency	n/a		☐
Tracker WGMS name	Tiny Tracker		☑
Drybox WGMS name	Tiny SV3-011		☑
Float name	Tiny		☑
Glider name	Tiny v200		☑
Thrudder Serial Number	2c001c	Last 6 digits of Hardware ID found on AMPS page	☑
Event definitions		Compare against standard list	☑
Vehicle and tracker op area defined		Note area name(s) and enable alarms	☑
Escalation list created/populated			☑

Vehicle Status

Item/Procedure	Readings	Initals
Battery [Wh] > 700 Wh	876.327	☑
Solar Power Indicators: > 0	0.147 0.0 16.226 2.625	☑

Item/Procedure	Readings				
Domain Info	**AMPS Hardware Status**	**Temperature (°C)**	**Pressure (kPa)**	**Hardware Uptime**	**Initials**
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	29.9	117.9	Uptime: 0 days, 22:16:48	☑
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	19.7	154.8	Uptime: 0 days, 22:12:38	☑
Domain_Name=PyldInt-0x3332470331323834002 3002c, Node=11, HW_SerNum=0x3332470331323834002 3002c On=Y	OK	33.0	116.1	Uptime: 0 days, 02:52:02	☑

Domain_Name=PyIdInt-0x333247093236303200 2b0025, Node=13, HW_SerNum=0x333247093236303200 2b0025 On=Y	OK	26.3	122.3	Uptime: 0 days, 00:25:47	☑

Mechanical Checks

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

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	439.0	Spins freely, slow and fast speeds	☑
Rudder Range of Motion		Rudder moves freely and smoothly	☑
Rudder right, left, center	Rudder(2019-05-02T20:57:50.195Z,desiredHeading=19.7,compass=36.5,rack=-12.9,post=-14.5rudd	Right, Left, Center	☑
Thrudder Compass Correction	Thrudder compass is NOT corrected		☑
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used	☑
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used	☑
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0	Catch release buoy by hand	☑
Octopus Cable 01	OK	Must Pass	☑
Octopus Cable 02	OK	Must Pass	☑
AIS Status	MMSI 366966550 (OCEAN ANGEL 2). Pos=36.804652, -121.785772. t=30:0:NOT_DEFINED, 2019	If in harbor, must see MMSI	☑
Photo Document			☑

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Init
WX reporting	Temp=16.2˚C, Press=1017.7mb, Wind Speed=4.52kn, Wind Dir=304.8˚. Heading=29.2˚	☑
UBLOX GPS	2019-05-02T20:57:54Z@36.8023743,-121.7871775, lastRx=0.507s, quality=100, clockDt=0.662s	☑
Airmar GPS	2019-05-02T20:57:53.800Z@36.802355,-121.7871483, lastRx=0.464s, quality=80, clockDt=0.862s	☑
Torpedo GPS	2019-05-02T20:57:54Z@36.8023339,-121.7871498, lastRx=3.447s, quality=65, clockDt=0.662s	☑
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false	☑
Obstacle Avoidance Status	Disabled	☑
RDF beacon tested w/receiver		☑
Check alarms	"Out of bounds" red. All yellow/green	☑

Comments

s2, gpctd plus DO, s3 pco2 plus ph, g2 Ecopuck plus VR2C and g3 Sonardyne acoustic payload

Technician Signature: cwahl

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*

Save & Submit Print