

Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2015-10-19T17:48:26.810Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	Cwahl	Organization	Mbari
Payload(s)	S1, s2, s3, g1	Project	Hotspot
Ship/Op Area	Mb to station m	Location	Using GPSUblox declination=13.402456, failoverC

Software Information

Id	Tiny, Running Regulus software version of 2015-02-08T22:15:44.913Z, production build 65
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 47 queued msgs (Max=2147483647). Channel is ATTEMPTING.(0/3 success rate) sleepTime=300000 packet	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0, sessionErrors=	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 15.8 v Report Rate 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	Na		☐
Hull RDF Frequency	Na		☐
Tracker WGMS name	Tin tracker		☒
Drybox WGMS name	Tiny sv3-011		☒
Float name			☒
Glider name			☒
Thruder 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	Initials
Battery [Wh] > 700 Wh	784.814	☒
Solar Power Indicators: > 0	8.022 0.0 14.727 13.938	☒

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	OK	27.8	118.8	Uptime: 0 days, 00:29:35	☒
Domain_Name=Thruder, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	28.2	177.4	Uptime: 0 days, 00:22:43	☒
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=5, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	21.9	117.1	Uptime: 0 days, 00:20:09	☒

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	☒
	Thruder	Hardware secure	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	0.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2015-10-19T17:48:23.603Z,desiredHeading=230.4,compass=219.4,rack=10.7,post=11)	Right, Left, Center	☒
Thruder Compass Correction	Thruder compass is NOT corrected		☒
Fixed heading test (spin)	250	Avoidance Off, Note Heading Used	☒
Waypoint course test (spin)		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 367022180 (DONNA KATHLEEN). Pos=36.801597, -121.787287. t=30:0:NOT_DEFINED, 2015-10-19T17:46:2	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=18.2°C, Press=1017.7mb, Wind Speed=1.63kn, Wind Dir=296.2°. Heading=229.0°
UBLOX GPS	At [36.80233633, -121.78714467] @ 2015-10-19T17:48:31Z, quality=100
Airmar GPS	At [36.80234500, -121.78717333] @ 2015-10-19T17:48:29.100Z, quality=80
Torpedo GPS	At [36.80234102, -121.78717065] @ 2015-10-19T17:48:26Z, quality=65
Water speed readings	Out of the water; Unknown speed; Not yet running
Obstacle Avoidance Status	Disabled
RDF beacon tested w/receiver	
Check alarms	<input all="" green"="" red.="" type="text" value="Out of bounds" yellow=""/>

Comments

S1 hotspot
 S2 ctd, do seas tar
 S3 pco2 pH
 G1 eco puck, vr2c

 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*

Save & Submit

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