

SV3-132: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2018-09-05T19:07:43.765Z	Glider Name	SV3-199056737(SV3-132)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	s3, g2 and g3	Project	CANON
Ship/Op Area	Paragon/ MB	Location	Using GPSUblox declination=13.100741, faild

Software Information

Id	SV3-132, sn=199056737, Running Regulus 1.1.1, software version of 2016-08-24T17:05:27Z, produ
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is TALKING.(98/98 success rate) sleepTime=60000 pack	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060796780, consecutiveErrors=0,	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 16.0 Report Rate 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	n/a		☐
Hull RDF Frequency	n/a		☐
Tracker WGMS name	MBARI Spare xeos		☒
Drybox WGMS name	SV3-132 Sparky		☒
Float name	Sparky		☒
Glider name	Sparky v2009		☒
Thruder Serial Number	280044	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	1233.288	☒
Solar Power Indicators: > 0	6.85 0.0 9.634 0.985	☒

Item/Procedure	Readings				Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	
Domain_Name=Host, Node=1, HW_SerNum=0x3334510630303735002f001d On=Y	OK	30.6	118.3	Uptime: 0 days, 19:34:02	☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x343747033038363800280044 On=Y	OK	18.5	168.1	Uptime: 0 days, 19:29:40	☒
Domain_Name=PyldInt-0x3333470c383233380023002e, Node=5, HW_SerNum=0x3333470c383233380023002e On=Y	OK	24.2	113.7	Uptime: 0 days, 02:50:26	☒

Domain_Name=Bat-0x3333511437333030003c002d, Node=6, HW_SerNum=0x3333511437333030003c002d On=Y	OK	20.8	112.8	Uptime: 0 days, 00:49:51	☒
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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(2018-09-05T19:07:41.085Z,desiredHeading=265.7,compass=311.6,rack=-19.9,post=-16.2ru	Right, Left, Center	☒
Thruder Compass Correction	Thruder 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	Failure	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 367766000 (RIV WESTERN FLYER). Pos=36.802407, -121.787048. t=33:0:UNDERWAY_EN	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Init
WX reporting	Temp=14.7°C, Press=1016.6mb, Wind Speed=3.17kn, Wind Dir=206.7°. Heading=297.4°	☒
UBLOX GPS	2018-09-05T19:07:44Z@36.8024868,-121.7870248, lastRx=0.780s, quality=100, clockDt=0.921s	☒
Airmar GPS	2018-09-05T19:07:43.900Z@36.8025667,-121.7870533, lastRx=0.686s, quality=80, clockDt=1.021s	☒
Torpedo GPS	2018-09-05T19:07:43Z@36.8025172,-121.7870399, lastRx=1.753s, quality=65, clockDt=1.921s	☒
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet, powerState=ON, ampsPower=true, Requested by: pilotRequest	☒
Obstacle Avoidance Status	Disabled	☒
RDF beacon tested w/receiver		☐
Check alarms	"Out of bounds" red. All yellow/green	☒

Comments

s3 & HV Hotspot SV3 with MF DAT, Iridium not working well
 G2 Sub and Float GPCTD plus Ecopuck
 G3 APU
 mid and aft solar panels have anti foul coating
 thruster disabled, electrical issues will ship back to 1r after deployment

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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