

SV3-132: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2016-05-23T15:42:50.823Z	Glider Name	SV3-199056737(SV3-132)
Tech(s)	cwahl	Organization	MBARI
Payload(s)	G2	Project	Shakedown
Ship/Op Area	MB	Location	Using GPSUblox declination=13.340403, failoverC

Software Information

Id	SV3-132, Running Regulus software version of 2015-12-01_16-50-31, production build 35
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2147483647). Channel is TALKING.(58/71 success rate) sleepTime=60000 packetSize=	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060796780, consecutiveErrors=0, sessionErrors=	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 13.65 Report Rate 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/A		☐
Hull RDF Frequency	N/A		☐
Tracker WGMS name	Sparky tracker		☒
Drybox WGMS name	Sv3-132		☒
Float name	Sparky		☒
Glider name	Sparky		☒
Thruder Serial Number	530054	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	863.87	☒
Solar Power Indicators: > 0	14.202 0.0 2.117 13.343	☒

Item/Procedure	Readings				
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3334510630303735002f001d On=Y	OK	14.4	119.7	Uptime: 0 days, 00:36:51	☒
Domain_Name=Thruder, Node=3, HW_SerNum=0x333451063030373500530054 On=Y	OK	13.9	150.1	Uptime: 0 days, 00:29:27	☒
Domain_Name=PyldInt-0x3333470c383233380023002e, Node=5, HW_SerNum=0x3333470c383233380023002e On=Y	OK	13.3	120.5	Uptime: 0 days, 00:19:50	☒

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(2016-05-23T15:42:49.749Z,desiredHeading=264.3,compass=7.8,rack=-20.1,post=-14.2)	Right, Left, Center	☒
Thruder Compass Correction	Thruder compass is NOT corrected		☒
Fixed heading test (spin)	90	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 338184357 (SHAMAN). Pos=36.802442, -121.785677. t=36:0:NOT_DEFINED, 2016-05-23T15:42:43.288Z	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=13.5°C, Press=1016.8mb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=2.0°
UBLOX GPS	At [36.80257933, -121.78709017] @ 2016-05-23T15:42:51Z, quality=100
Airmar GPS	At [36.80255333, -121.78706000] @ 2016-05-23T15:40:47.200Z, quality=80
Torpedo GPS	At [36.80258362, -121.78709042] @ 2016-05-23T15:42:44Z, quality=65
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet
Obstacle Avoidance Status	Disabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

G2 - sub and float gpctd+do

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*