

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2020-10-02T20:16:54.060Z	Glider Name	SV3-1553177065(SV3-272)
Tech(s)	Erik Trauschke	Organization	MBARI
Project	KBB	Ship/Op Area	Monterey Bay

Software Information

Regulus Version	SV3-272, sn=1553177065, Running Regulus 1.1.3, software version of 2017-09-28T01:02:25Z, production build 32
Plugins	Running: AirmarWeather, LogAlarmReporter, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	ON. 0 queued msgs (Max=2500). Channel is WAITING.(no internet connectivity)		☐
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=134, writeErrors=0, readErrors=0, 10min ss avg=2.851305		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Hold Station at Waypoint #89. Have 175 blocked messages., averageMessageQueueRate=6m11.747s		☒
Location	Using GPSUblox declination=12.881849, failoverCounter=1, timeLastSwitchedGps=2020-10-01T22:30:08Z,		☒
Tracker telemetry received	Battery (bars)15.72V Report Rate4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☒
Drybox WGMS name	Hansen			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☐
G1				☐
G2				☐
G3				☐
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
S4				☐
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	Comments	Initials
Battery [Wh] > 700 Wh	883.671		☒
Solar Power Indicators: > 0	4.043 0.0 3.074 2.743		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1, HW_SerNum=0x343747033038363800180028 On=Y	OK	30.4	115.3	Uptime: 0 days, 21:49:52		☒

Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	24.9	198.8	Uptime: 0 days, 21:45:34		☒
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Mechanical Checks

	Item/Procedure	Specifications	Comments	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		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite and Lock Nuts		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	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(2020-10-02T20:16:50.386Z,desiredHeading=313.9,compass=3.9,rack=-19.9,post=-14.4rudderStatus=00000000B,)	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is NOT corrected	recommended NOT corrected		☒
Fixed heading test (spin)		Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)		Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is armed, deviceState=OFF, deployCounter=0, waitTime=30s	Catch release buoy by hand	web page crashed/did not deploy	☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	MMSI 367766000 (WESTERN FLYER). Pos=36.802407, -121.787048. t=33:0:MOORED, 2020-10-02T09:20:01.775Z	If in harbor, must see MMSI		☒
Photo Document				☐

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=NaN°C, Press=NaNmb, Wind Speed=NaNkn, Wind Dir=NaN°. Heading=NaN°		☐
UBLOX GPS	2020-10-02T20:16:56Z036.8024767, -121.787104, lastRx=0.537s, quality=100, clockDt=0.817s, failCount=0, gga0Count:2=300, numSat:sma=11.32, std=0.61, min=10.00, max=12.00, hdop:sma=0.91, std=0.12, min=0.77, max=1.58, altitude:sma=0.37, std=0.18, min=-0.10, max=0.70		☒
Airmar GPS	Not Available!		☐
Torpedo GPS	Not Available!		☐
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false		☐
Obstacle Avoidance Status	Enabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☐

General Comments

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*

Submit

Print

Clear User Input

