

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2020-11-12T18:16:09.774Z	Glider Name	SV3-1553177065 (SV3-272)
Tech(s)	cwahl	Organization	MBARI
Project	Bioacoustics	Ship/Op Area	Paragon MB

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)	Behind Flyer, bad cell here?	☒
WGMS Iridium	ON. 1 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=320, writeErrors=0, readErrors=0, 10min ss avg=4.342103		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %wap.turnOn(). Have 175 blocked messages., averageMessageQueueRate=3m12.526s		☒
Location	Using GPSublox declination=12.869965, failoverCounter=1, timeLastSwitchedGps=2020-11-11T21:35:32Z, clockDt=1.880s		☒
Tracker telemetry received	Battery (bars) 15.6 Report Rate 4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-272 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	1245.167	APU installed for winter ops	☒
Solar Power Indicators: > 0	10.716 0.0 9.888 12.325		☒

Item/Procedure	Readings				Comments	Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime		
Domain_Name=Host, Node=1,	OK	17.7	109.9			☒

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HW_SerNum=0x343747033038363800180028 On=Y				Uptime: 0 days, 20:44:14		
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	14.9	177.9	Uptime: 0 days, 20:39:58		☒
Domain_Name=Bat-0x474850072038384d00380042, Node=4, HW_SerNum=0x474850072038384d00380042 On=Y	OK	13.7	110.2	Uptime: 0 days, 19:04:11		☒

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	repaired ding on nose	☒
	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		☒
	Thrudder	Hardware secure	rudder fin flipped to bottomside	☒

Vehicle Functionality					
Item/Procedure	Readings		Specifications	Comments	Initials
Thruster Spin	448.0	//	Spins freely, slow and fast speeds		☒
Rudder Range of Motion			Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2020-11-12T18:16:07.241Z,desiredHeading=28.4,compass=78.5,rack=-12.9,post=-14.6rudde		Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is NOT corrected		recommended 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, waitTime=30s		Catch release buoy by hand		☒
Octopus Cable 01	OK		Must Pass		☒
Octopus Cable 02	OK		Must Pass		☒
AIS Status	MMSI 367742810 (JOHN H MARTIN). Pos=36.805983, -121.786613. t=37:0:NOT_DEFINED, 2020-11-12T18:16:05.344Z		If in harbor, must see MMSI		☒
Photo Document					☒

Vehicle Communication and Telemetry				
Item/Procedure	Readings / Specifications		Comments	Initials
WX reporting	Temp=13.4°C, Press=1016.3mb, Wind Speed=2.74kn, Wind Dir=36.5°. Heading=59.9°		☐	☒
UBLOX GPS	2020-11-12T18:16:10Z@36.8024577,-121.7871302,lastRx=0.993s,quality=100,clockDt=2.507s,failCount=0,ggaQCount:1=131,2=169,numSat:sma=11.61,s		☐	☒
Airmar GPS	2020-11-12T18:16:10.100Z@36.8024433,-121.78707,lastRx=0.659s,quality=80,clockDt=2.461s,failCount=0,ggaQCount:2=300,numSat:sma=11.18,std=0.38,min=11.00,max=12.00,hdop:sma=0.80,std=0.00,min=0.80,max=0.80,altitude:sma=19.70,std=4.38,min=11.70,max=27.20		☐	☒
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

EK80 installed in aft payload bay

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

Submit

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Clear User Input