

SV3-029: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-09-26T16:32:18.077Z	Glider Name	SV3-1167408762(SV3-029)
Tech(s)	cwahl	Organization	MBARI
Project	KBB Inner Canyon Acoustics	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-029, sn=1167408762, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure //
Plugins	Running: AirmarWeather, GPSSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (16h32m10.454s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working...	☐
WGMS Iridium	IMEI:300434060620290, starts=1, r=2, w=1904, sessionAttempts=2129, sessionErrs=222, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=3.2 (i=4), 1 queued msgs state=TALKING, sent=1904, lastTx=6.121s, avgTxSize=178.3B, totalTx=288.028kB, received=2, lastRx=16h4m58.844s, totalRx=0.076kB, powerState=ON (16h31m43.545s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]2 blocked messages, totalMessagesDiscarded=245, averageMessageQueueRate=32.023s, sent=1904, totalBytesSent=288.028kB, received=2, totalBytesReceived=0.076kB, lastRx=16h4m58.882s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=2, #handled=2, lastRx=rx=2023-09-		☒
Location	Using GPSUblox, declination=12.651462, failoverCounter=2, timeLastSwitchedGps=2023-09-26T00:02:27Z, clockDt=0.737s		☒
Tracker telemetry received	Battery (Volts) 15.6 Volts Report Rate 4 hours		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-029			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	JRF APU			☒
T1				☐
D1				☐
S1				☐
S2				☐
S3				☐
S4	Airmar			☒
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 [vwn] > /uu vwn	1467.993	/		☒
Solar Power Indicators: > 0	8.82 0.0 8.827 9.937	/		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x31324716393237390034002c On=Y	OK	22.2	116.8	Uptime: 0 days, 16:33:10		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	20.1	261.1	Uptime: 0 days, 16:26:00		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=4, HW_SerNum=0x33324703313238340031002d On=Y	OK	19.7	111.6	Uptime: 0 days, 16:21:17		☒

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	Inspect, note condition		☒
	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, lock nuts, and seizing wire		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	450.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-09-26T16:32:15.591Z,desiredHeading=351.7,compass=17.8,rack=-11.4,post=-14rudderStat	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says that this is okay!	☒
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	220 (c1)	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (16h29m34.953s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		☒
Octopus Cable 01	OK	Must Pass		☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 338407295 (ONELOVE). Pos=36.803008, -121.785678. t=36:0:MOORED, 2023-09-26T16:32:15.943Z, lengthErrs=3, latLonErrs=0, broadcastCount=5212, lastRx=10.698s, numberObserved=11, averageRxRateMillis=5.675s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=18.3°C, Press=1031.8mb, Wind Speed=1.59kn, Wind Dir=354.6°. Heading=354.6°	Readings a little off... Replace next time!	☒
UBLOX GPS	2023-09-26T16:32:28Z@36.8024218,-121.7871475,lastRx=0, quality=100, timeout=1m, nmeaValid=true, clockDt=1.246s, lastValidFix=2023-09-26T16:32:28Z@36.8024218,-121.7871475, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=9.62,std=0.52,min=8.00,max=10.00,n=300,hdop:sma=1.13,std=0.12,min=1.00,max=1.25,n=300,altitude:sma=0.28,std=1.24,min=-2.30,max=2.60,n=300		☒
Airmar GPS	2023-09-26T16:32:27.300Z@36.80245,-121.7871483,lastRx=0.929s, quality=80, timeout=5m, nmeaValid=true, clockDt=0.387s, lastValidFix=2023-09-26T16:32:27.300Z@36.80245,-121.7871483, gpsWatchdogFailureCounter=0, ggaQCount:2=301,numSat:sma=9.13,std=0.33,min=9.00,max=10.00,n=300,hdop:sma=0.90,std=0.00,min=0.90,max=0.90,n=300,altitude:sma=4.98,std=2.07,min=1.00,max=10.30,n=300		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
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