

SV3-029: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-08-31T22:34:17.416Z	Glider Name	SV3-1167408762 (SV3-029)
Tech(s)	cwahl	Organization	MBARI
Project	BWO	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, GPSasRudderCompass, 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 (3h2m57.884s), virtualDevice=true, powerThreadActive=false (no internet connectivity)		☒
WGMS Iridium	IMEI:300434060620290, starts=1, r=1, w=167, sessionAttempts=187, sessionErrs=18, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.1 (i=5), 1 queued msgs state=TALKING, sent=167, lastTx=4.598s, avgTxSize=96.4B, totalTx=17.077kB, received=1, lastRx=2h35m54.488s, totalRx=0.038kB, powerState=ON (3h2m31.688s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]58 blocked messages, averageMessageQueueRate=1m4.014s, sent=167, totalBytesSent=17.077kB, received=1, totalBytesReceived=0.038kB, lastRx=2h35m54.481s, 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=1, #handled=1, lastRx=rx=2023-08-31T19:58:22.839Z, receiver=iridiumModem,	Still not working...	☐
Location	Using GPSublox, declination=12.658, failoverCounter=1, timeLastSwitchedGps=2023-08-31T19:33:33Z, clockDt=5.555s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.8 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-029			☒
Float name	WG Hansen			☒
Glider name	WG Hansen			☒
Umbilical Length	4m			☒
G1				☐
G2				☐
G3	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 [Wh] > 700 Wh	1599.742		☒

Solar Power Indicators: > 0	0.698	//		☐
	0.0	//		
	3.337	//		
	3.823	//		

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 //	22.7 //	116.5 //	Uptime: 0 days, 03:05:11 //		☒
Domain_Name=Bat-0x33324703313238340031002d, Node=3, HW_SerNum=0x33324703313238340031002d On=Y	OK //	21.4 //	112.8 //	Uptime: 0 days, 02:58:50 //		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x474850052038384d0057002b On=Y	OK //	18.5 //	253.1 //	Uptime: 0 days, 02:58:03 //		☒

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	459.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder{2023-08-31T22:34:12.721Z,desiredHeading=245.6,compass=270.7,rack=-11.4,post=-12.6rudderS	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)	36.8008, -122.0973	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (3h23.530s), 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 368159560 (NOVA). Pos=36.802170, -121.784920. t=37:0:NOT_DEFINED, 2023-08-31T22:34:00.710Z, lengthErrs=1, latlonErrs=0, broadcastCount=588, lastRx=20.394s, numberObserved=7, averageRxRateMillis=6.934s //	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=14.8°C, Press=1010.8mb, Wind Speed=4.23kn, Wind Dir=214.7°. Heading=249.3° //		☒
UBLOX GPS	2023-08-31T22:34:27Z@36.8023978,-121.7871778,lastRx=0.105s, quality=100, timeout=1m, nmeaValid=true, clockDt=5.857s, lastValidFix=2023-08-31T22:34:27Z@36.8023978,-121.7871778, gpsWatchdogFailureCounter=0, ggaQCCount:2=300,numSat:sma=10.11,std=0.75,min=9.00,max=11.00,n=300,hdop:sma=0.98,std=0.09,min=0.85,max=1.10,n=300,altitude:sma=2.79,std=1.99,min=-2.10,max=4.90, //		☒
Airmar GPS	2023-08-31T22:34:27Z@36.80243,-121.7871983,lastRx=0.233s, quality=80, timeout=5m, nmeaValid=true, clockDt=5.748s, lastValidFix=2023-08-31T22:34:27Z@36.80243,-121.7871983, gpsWatchdogFailureCounter=0, ggaQCCount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdop:sma=0.90,std=0.01,min=0.90,max=1.00,n=300,altitude:sma=10.00,std=2.02,min=4.00,max=13.7 //		☒
Torpedo GPS	Not Available! //		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00 //		☒
Obstacle Avoidance Status	Disabled //		☒
Check alarms	*Out of bounds" red. All yellow/green //		☒

General Comments

Nothing to report.

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