

SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2023-05-11T23:20:55.992Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	CANON	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-110, sn=466563798, 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, LogAlarmReporter, PortForwarder, RudderParametersManager, ThrudderDiagnosticsFixer, ThrusterAdjuster Not running: GPSasRudderCompass

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	Wifi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (30m13.309s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=7, w=43, sessionAttempts=71, sessionErrs=27, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=1.5 (i=4), 1 queued msgs state=TALKING, sent=43, lastTx=13.967s, avgTxSize=133.3B, totalTx=5.652kB, received=7, lastRx=2m2.865s, avgRxSize=41.1B, totalRx=0.281kB, powerState=ON (29m45.295s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]87 blocked messages, averageMessageQueueRate=10.640s, sent=43, totalBytesSent=5.652kB, received=7, totalBytesReceived=0.281kB, lastRx=2m2.946s, 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=7, #handled=7, lastRx=rx=2023-05-		☒
Location	Using GPSUblox, declination=12.687216, failoverCounter=1, timeLastSwitchedGps=2023-05-11T22:53:33.010Z, clockDt=3.593s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.9 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-110 Hansen Replacement			☒
Float name	WG Tiny Copper			☒
Glider name	Tiny v150			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 3 with MF DAT			☒
S2	GPCTD plus DO			☒
S3	pCO2 plus pH			☒
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	933.264		☒

Solar Power Indicators: > 0	3.904	//		☒
	0.0	//		
	4.006	//		
	9.633	//		

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK //	24.2 //	116.5 //	Uptime: 0 days, 00:33:34 //		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK //	24.0 //	151.8 //	Uptime: 0 days, 00:25:35 //		☒
Domain_Name=PydInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK //	22.6 //	115.4 //	Uptime: 0 days, 00:21:19 //		☒

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	449.0 //	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2023-05-11T23:20:54.233Z,desiredHeading=320.8,compass=24.6,rack=-14.9,post=-9.1rudderSta	 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	Not really working?	☐
Waypoint course test (spin)	36.797, -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (27m18.003s), 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 367416790 (NATALIE ROSE). Pos=36.801882, -121.787200. t=30:0:NOT_DEFINED, 2023-05-11T23:21:12.745Z, lengthErrs=0, latIonErrs=0, broadcastCount=242, lastRx=1.425s, numberObserved=9, averageRxRateMillis=6.726s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.7°C, Press=1017.8mb, Wind Speed=3.96kn, Wind Dir=215.0°. Heading=26.4° //		☒
UBLOX GPS	2023-05-11T23:21:18Z@36.8024003,-121.7871577,lastRx=0.079s, quality=100, timeout=1m, nmeaValid=true, clockDt=3.695s, lastValidFix=2023-05-11T23:21:18Z@36.8024003,-121.7871577, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.68,std=0.56,min=10.00,max=12.00,n=300,hdop:sma=0.85,std=0.03,min=0.83,max=0.90,n=300,altitude:sma=2.15,std=0.51,min=1.00,max=3.50, //		☒
Airmar GPS	2023-05-11T23:21:17.100Z@36.8024333,-121.7871217,lastRx=0.322s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.660s, lastValidFix=2023-05-11T23:21:17.100Z@36.8024333,-121.7871217, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.00,std=0.00,min=11.00,max=11.00,n=300,hdop:sma=0.90,std=0.00,min=0.90,max=0.90,n=300,altitude:sma=10.80,std=2.80,min=6.40,max=17.3 //		☒
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:

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- 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