

SV3-034: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2024-04-11T23:20:22.750Z	Glider Name	SV3-16977098 (SV3-034)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS/Synchro	Ship/Op Area	Paragon MB

Software Information

Regulus Version	SV3-034, sn=16977098, 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, RudderParametersManager, ThrusterAdjuster Not running: LogAlarmReporter, PortForwarder

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=ON (1h13m47.284s), virtualDevice=true, Requested by: pilotRequest, powerThreadActive=false (no internet connectivity)	Should be off, still not working.	☐
WGMS Iridium	IMEI:30043406000860, starts=1, r=2, w=136, sessionAttempts=153, sessionErrs=16, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.3 (i=4), 1 queued msgs state=TALKING, sent=136, lastTx=0.739s, avgTxSize=119.2B, totalTx=15.767kB, received=2, lastRx=50m33.279s, avgRxSize=39.0B, totalRx=0.076kB, powerState=ON (1h13m18.917s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]239 blocked messages, averageMessageQueueRate=31.270s, sent=136, totalBytesSent=15.767kB, received=2, totalBytesReceived=0.076kB, lastRx=50m33.306s, 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=2024-04-11T22:29:49.641Z, receiver=iridiumModem,		☒
Location	Using GPSUblox, declination=12.599492, failoverCounter=1, timeLastSwitchedGps=2024-04-11T22:08:56.970Z, clockDt=2.025s		☒
Tracker telemetry received	Battery (Volts) Report Rate	16.0 volts 4 hours	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-034			☒
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
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Battery [Wh] > 700 Wh	1654.589	//		☒
Solar Power Indicators: > 0	2.39	//		☒
	0.0	//		
	1.307	//		
	8.294	//		

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x3332470b32363032001e0022 On=Y	OK	31.8	115.6	Uptime: 0 days, 01:17:10		☒
Domain_Name=Bat-0x3332470313238340031002d, Node=3, HW_SerNum=0x3332470313238340031002d On=Y	OK	32.8	115.9	Uptime: 0 days, 01:22:34		☒
Domain_Name=Thruder-2, Node=4, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	23.0	290.7	Uptime: 0 days, 01:10:16		☒

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	445.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2024-04-11T23:20:22.948Z,desiredHeading=287.1,compass=24.8,rack=-11.4,post=-11.7rudderSt	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)	36.797, -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (1h11m23.363s), 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 368323170 (WESTERN FLYER). Pos=36.805753, -121.785658. t=37:0:UNDERWAY ENGINE, 2024-04-11T23:20:25.917Z, lengthErrs=0, latlonErrs=0, broadcastCount=890, lastRx=0.601s, numberObserved=8, averageRxRateMillis=5.554s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.2°C, Press=1011.8mb, Wind Speed=5.35kn, Wind Dir=214.7°. Heading=149.9°		☒
UBLOX GPS	2024-04-11T23:20:29Z@36.8024272,-121.7871315,lastRx=0.054s, quality=100, timeout=1m, nmeaValid=true, clockDt=2.431s, lastValidFix=2024-04-11T23:20:29Z@36.8024272,-121.7871315, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=11.81,std=0.40,min=10.00,max=12.00,n=300,hdop:sma=0.91,std=0.14,min=0.77,max=1.13,n=300,altitude:sma=0.30,std=0.73,min=-1.70,max=1.70		☒
Airmar GPS	2024-04-11T23:20:28.900Z@36.8024583,-121.7871433,lastRx=0.154s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.308s, lastValidFix=2024-04-11T23:20:28.900Z@36.8024583,-121.7871433, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.91,std=0.28,min=10.00,max=11.00,n=300,hdop:sma=0.81,std=0.03,min=0.80,max=0.90,n=300,altitude:sma=7.80,std=0.49,min=6.90,max=9.00,		☒
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

Airmar/S4 bulkhead failed on last deployment. CCU Sv3-034 installed with upgraded software. Airmar and cable also repalced!

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