

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2019-05-21T22:32:29.482Z	Glider Name	SV3-1553177065(SV3-272)
Tech(s)	cwahl	Organization	MBARI
Project	CANON	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 TALKING. (94/94 success rate) sleepTime=60000 packetSize=8192	cell antenna from Tiny with foam potting	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=22, writeErrors=0, readErrors=0, 10min ss avg=3.874360		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %G1Integrator.turnOffIntegratorPayload(). Have 0 blocked messages.,		☒
Location	Using GPSUblox declination=13.026342, failoverCounter=1, timeLastSwitchedGps=2019-05-20T22:01:32Z, clockDt=0.500s		☒
Tracker telemetry received	Battery (bars) Report Rate 13.0 Volts 4 hours	Alkaline batts?	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	SV3-272 MB XEOS Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-272			☒
Float name	SV3-272			☒
Glider name	SV3-272			☒
Umbilical Length	4m			☒
G1	Float and Sub GPCTD			☒
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			☐
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Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	920.78		☒
Solar Power Indicators: > 0	4.365 0.0 4.441 6.501		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	
Domain_Name=Host, Node=1, HW_SerNum=0x343747033038363800180028 On=Y	OK	23.2	120.0	Uptime: 1 day, 00:34:29		
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	16.5	180.9	Uptime: 1 day, 00:30:16		
Domain_Name=PyIdInt-0x474850072038384d00380051, Node=7, HW_SerNum=0x474850072038384d00380051 On=Y	OK	17.5	117.6	Uptime: 0 days, 00:01:30	Float and Sub GPCTDs	

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		☒
	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		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments
Thruster Spin	449.0	Spins freely, slow and fast speeds	
Rudder Range of Motion		Rudder moves freely and smoothly	
Rudder right, left, center	Rudder(2019-05-21T22:32:23.137Z,desiredHeading=244.4,compass=194.1,rack=20,post=19.3rudder	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	can pull it out by hand?

Octopus Cable 01	OK	Must Pass	
Octopus Cable 02	OK	Must Pass	
AIS Status	MMSI 367766000 (WESTERN FLYER). Pos=36.802407, -121.787040. t=33:0:MOORED, 2019-05-21T22:32:27.131Z	If in harbor, must see MMSI	
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.0°C, Press=1015.5mb, Wind Speed=2.51kn, Wind Dir=31.2°. Heading=203.6°		☒
UBLOX GPS	2019-05-21T22:32:30Z@36.8023992, -121.7871968, lastRx=0.743s, quality=100, clockDt=0.936s, failCount=0, ggaQCount:1=27, 2=273, numSat:sma=9.53, std=0.50, min=9.00, max=10.00, hdop:sma=0.98, std=0.13, min=0.85, max=1.61, altitude:sma=1.57, std=0.65, min=0.70, max=3.20		☒
Airmar GPS	2019-05-21T22:32:30.010Z@36.80235, -121.7871333, lastRx=0.514s, quality=80, clockDt=0.932s, failCount=0, ggaQCount:2=300, numSat:sma=9.26, std=0.49, min=8.00, max=10.00, hdop:sma=0.98, std=0.05, min=0.90, max=1.10, altitude:sma=10.34, std=1.04, min=8.10, max=11.90		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet, consecutiveErrorLimit=10, powerState=ON, ampsPower=true, Requested by: pilotRequest, powerThreadActive=false		☒
Obstacle Avoidance Status	Enabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

CCU and science 1 MPU mounted in forward bay, APU removed, EK80 installed in the AFT payload bay.

Technician Signature: cwah1

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