

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2019-09-26T00:00:27.698Z	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. (88/88 success rate) sleepTime=60000 packetSize=8192		☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=11, writeErrors=0, readErrors=0, 10min ss avg=4.153384		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Read file transaction closed. Have 0 blocked messages., averageMessageQueueRate=7m20.692s		☒
Location	Using GPSublox declination=12.989428, failoverCounter=1, timeLastSwitchedGps=2019-09-25T18:22:47Z, clockDt=0.745s		☒
Tracker telemetry received	Battery (bars) Report Rate	15.99 volts 4hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	SV3-272 Hansen			☒
Float name	SV3-272 Hansen			☒
Glider name	SV3-272 Hansen			☒
Umbilical Length	4m			☒
G1	Float/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				☒

Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	901.44		☒
Solar Power Indicators: > 0	1.028 0.0 1.085 1.21		☒

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials

9/25/2019SV3-272: SV3 Pre-Launch Checklist

Domain_Name=Host, Node=1, HW_SerNum=0x343747033038363800180028 On=Y	OK	36.0	119.9	Uptime: 0 days, 05:41:10		
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK	30.6	219.2	Uptime: 0 days, 05:36:57		
Domain_Name=PyldInt-0x474850072038384d00380051, Node=5, HW_SerNum=0x474850072038384d00380051 On=Y	OK	33.2	126.0	Uptime: 0 days, 00:02:14		

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		
	Thrudder	Hardware secure		

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	454.0	Spins freely, slow and fast speeds	cruise speed	
Rudder Range of Motion		Rudder moves freely and smoothly		
Rudder right, left, center	Rudder(2019-09-26T00:00:26.028Z,desiredHeading=337.4,compass=27.5,rack=-12.9,post=-12.2rud	Right, Left, Center		
Thrudder Compass Correction	Thrudder 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		
Octopus Cable 01	OK	Must Pass		
Octopus Cable 02	OK	Must Pass		
AIS Status	MMSI 338415000 (RACHEL CARSON). Pos=36.802143, -121.787175. t=70:0:UNDERWAY_ENGINE, 2019-09-25T23:26:51.380Z	If in harbor, must see MMSI		
Photo Document				

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=22.2°C, Press=1006.9mb, Wind Speed=1.05kn, Wind Dir=111.9°. Heading=23.4°		
UBLOX GPS	2019-09-26T00:00:29Z@36.8024122,-121.7871585,lastRx=0.803s,quality=100,clockDt=0.992s,failCount=0,ggaQCount:2=300,numSat:sma=11.64,std=0.48,min=11.00,max=12.00,hdop:sma=0.92,std=0.07,min=0.78,max=0.99,altitude:sma=0.72,std=0.55,min=-0.50,max=1.60		
Airmar GPS	2019-09-26T00:00:29.100Z@36.8024033,-121.7871717,lastRx=0.589s,quality=80,clockDt=0.897s,failCount=0,ggaQCount:1=300,numSat:sma=10.39,std=0.68,min=9.00,max=11.00,hdop:sma=1.06,std=0.07,min=1.00,max=1.40,altitude:sma=1.66,std=0.38,min=1.00,max=2.30		
Torpedo GPS	Not Available!		
Water speed readings	Out of the water; Unknown speed; Not yet running, powerState=OFF, ampsPower=false, powerThreadActive=false		
Obstacle Avoidance Status	Disabled		
Check alarms	"Out of bounds" red. All yellow/green		

General Comments

G1 sub/float GPCTD plus DO
CCU FWD, with KBB EK80 in the after Wetbay for CANON

Technician Signature: cwahl

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