

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2020-06-18T20:46:52.716Z	Glider Name	SV3-1553177065(SV3-272)
Tech(s)	Erik Trauschke	Organization	MBARI
Project	KBB Acoustics	Ship/Op Area	Paragon/Monterey Bay

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 WAITING. (no internet connectivity)		☐
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434063245550, consecutiveErrors=0, sessionErrors=29, writeErrors=0, readErrors=0, 10min ss avg=4.551829		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %wap.turnOn(). Have 0 blocked messages., averageMessageQueueRate=25m57.383s		☒
Location	Using GPSUblox declination=12.91249, failoverCounter=1, timeLastSwitchedGps=2020-06-17T23:29:24Z, clockDt=0.788s		☒
Tracker telemetry received	Battery (bars) Report Rate	15.84V 4 hrs	☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Hansen SV3-272			☒
Float name	Hansen			☒
Glider name	Hansen			☒
Umbilical Length	4m			☒
G1				☐
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	511.474 //	still charging	☐
Solar Power Indicators: > 0	17.448 // 0.0 // 33.113 // 33.622 //		☒

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 //	31.5 //	114.9 //	Uptime: 0 days, 21:21:11 //		
Domain_Name=Thruder-2, Node=2, HW_SerNum=0x3437470330383638001f0033 On=Y	OK //	18.2 //	172.3 //	Uptime: 0 days, 21:16:41 //		

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	recently repaired from Fall CANON 2019	☒
	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	0.0 //	Spins freely, slow and fast speeds //	
Rudder Range of Motion		Rudder moves freely and smoothly //	
Rudder right, left, center	Rudder(2020-06-18T20:46:50.331Z,desiredHeading=339.5,compass=29.5,rack=-19.9,post=-14.2rud	Right, Left, Center //	
Thruder Compass Correction	Thruder compass is NOT corrected //	recommended NOT corrected //	
Fixed heading test (spin)	0	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		If in harbor, //	

	MMSI 367561840 (OCEAN LEADER). Pos=36.806312, -121.785708. t=30:0:NOT_DEFINED, 2020-06-18T20:46:49.489Z	must see MMSI	
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=13.3°C, Press=1014.3mb, Wind Speed=5.92kn, Wind Dir=278.7°.		☒
UBLOX GPS	2020-06-18T20:46:54Z@36.8023303, -121.7868027, lastRx=0.758s, quality=100, clockDt=0.955s, failCount=0, ggaQCount:2=300, numSat:sma=10.46, std=0.50, min=10.00, max=11.00, hdop:sma=0.93, std=0.13, min=0.78, max=1.06, altitude:sma=-0.28, std=0.91, min=-1.50, max=0.80		☒
Airmar GPS	2020-06-18T20:46:53.810Z@36.8023433, -121.7867967, lastRx=0.906s, quality=80, clockDt=1.248s, failCount=0, ggaQCount:2=300, numSat:sma=10.00, std=0.00, min=10.00, max=10.00, hdop:sma=0.90, std=0.00, min=0.90, max=0.90, altitude:sma=1.08, std=0.44, min=0.40, max=1.90		☒
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

EK80 installed in aft payload bay, CCU in fwd payload bay

Technician Signature: Trauschke

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