

SV3-272: SV3 Pre-Launch Checklist

Readme

SV3 Pre-Launch Checklist

Date	2020-07-15T20:28:25.053Z	Glider Name	SV3-1553177065(SV3-272)
Tech(s)	Erik Trauschke	Organization	MBARI
Project	CANON	Ship/Op Area	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=15, writeErrors=0, readErrors=0, 10min ss avg=4.244424		☒
Vehicle telemetry received	[virtualRelay, iridiumModem], Last Command: Write Console Script (Dest=0x0, code=0): %id.adduser("etrauschke", "wgpassword"). Have 0 blocked messages.,		☒
Location	Using GPSublox declination=12.904477, failoverCounter=1, timeLastSwitchedGps=2020-07-15T16:03:48Z, clockDt=1.116s		☒
Tracker telemetry received	Battery (bars) 15.45 volt Report Rate 4 hrs		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Hansen Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Hansen CCU-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	865.338 //		☒
Solar Power Indicators: > 0	0.584 // 0.0 // 5.456 // 5.339 //		☒

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 //	26.1 //	113.5 //	Uptime: 0 days, 04:28:15 //		
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x3437470330383638001f0033 On=Y	OK //	22.1 //	191.2 //	Uptime: 0 days, 04:23:56 //		

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	0.0 //	Spins freely, slow and fast speeds //	
Rudder Range of Motion		Rudder moves freely and smoothly	
Rudder right, left, center	Rudder(2020-07-15T20:28:23.346Z,desiredHeading=343.7,compass=33.8,rack=-19.9,post=-16.1rud	Right, Left, Center	
Thruder Compass Correction	Thruder compass is NOT corrected //	recommended NOT corrected //	
Fixed heading test (spin)		Avoidance Off, Note Heading Used	0 deg
Waypoint course test (spin)		Avoidance Off, Note Waypoint Course Used	41-42
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 367554530 (DULCINEA). Pos=36.801533, -121.784547. t=36:0:NOT_DEFINED, 2020-07-15T20:27:21.806Z	must see MMSI	
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=15.9°C, Press=1037.9mb, Wind Speed=4.13kn, Wind Dir=278.6°.		☒
UBLOX GPS	2020-07-15T20:28:27Z@36.8023287, -121.7871358, lastRx=0.586s, quality=100, clockDt=0.819s, failCount=0, ggaQCount=2=300, numSat:sma=11.90, std=0.31, min=10.00, max=12.00, hdop:sma=0.69, std=0.04, min=0.66, max=1.00, altitude:sma=-0.71, std=0.65, min=-1.90, max=0.40		☒
Airmar GPS	2020-07-15T20:28:27.100Z@36.8023333, -121.7871433, lastRx=0.370s, quality=80, clockDt=0.779s, failCount=0, ggaQCount:1=300, numSat:sma=9.99, std=0.08, min=9.00, max=10.00, hdop:sma=0.80, std=0.01, min=0.80, max=0.90, altitude:sma=4.46, std=0.52, min=3.40, max=5.70		☒
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	Enabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

Carrying EK-80 for CANON operations.

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