

Wave Glider – SV3 Pre-Launch Checklist

Date / Time	4/8/2014	Project:	HOTSPOT
Technician(s):	Paul and Brian	Ship / Op Area:	EUHAB - San Pedro Channel

Cycle Power on CCU Prior to Pre-Launch Checks. Ensure Auto Avoidance settings = 0, and no check in WSS: assume in water

Vehicle / WGMS Configurations

Item/Procedure	Readings	Specifications	Initials
SV3 WGMS Name	Tiny		
Float Name	Tiny		
Glider Name	Tiny		
Thruster Serial Number	U54165 003967	Hardware ID	
Onboard Server WiFi IP	192-168-100-1	URL	
Onboard Server Virtual Cell IP		URL 10.20.15.XXX	

Tracking

Resilient Tracker IMEI		Every 10 min (1 st hour), then every 12 hrs.	
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(O2)

(S4)

(O1)

(S4)

Payloads

RTE ☒

AIS ☒

Weather Station ☒

Water Speed ☒

Lightbar ☒

XP 1 (G1) SV3 PL or MPU	NA see comments section	Description	
XP 2 (G2)	NA off	Description	
XP 3 (G3)	NA off	Description	
Payload 1 (sensor 1)	NA off	Description	
Payload 2 (S2)	NA off	Description	
Payload 3 (S3)	NA off	Description	

WGMS

Organization	NWBC		
Escalation List	LRI?	Created and Populated	
Event Definitions	LRI?	Compare Against Standard List	
Vehicle Op Area Defined	Yes	Poly Name(s). Alarms Enabled	

Communications

WiFi Connection		Onboard Server Accessible	FR
Virtual Relay Cell		WGMS Raw Outputs – VR Cell	AK
Iridium		WGMS Raw Outputs - IridiumStatus	AK
Vehicle Telemetry Received	✓	Packet Data Displayed in WGMS	AK
Resilient Tracker	✓	WGMS Raw Outputs	

Vehicle Status

Battery [Wh] > 500 Wh				
Solar Power Indicators:	Panel 1	Panel 2	Panel 3	Panel 4
Output > 0 W	0.02	0	0.79	0.65
Drybox Environmentals:	CCU	XP 1	XP 2	XP 3
Pressure > 120 kpa (+/-2)	12.4			
Temp	30			
Drybox Environmentals:	Thruster (170 kpa)	Payload 1	Payload 2	Payload 3
Pressure > 120 kpa (+/-2)	162.5			
Temp	30.3 no leak			

Vehicle Status: WGMS, SV3 Commands, SV3 vehicle form (AMPS, WX , AIS) Adaptable modular power system

Item/Procedure	Readings	Specifications	Initials
Linux Uptime	18:57:57 18:57	Time Since Last Boot 2 1:28	
Regulus Uptime		Time Since Last Boot 7	
Weather Station		Accurate Reporting	
Airmar Weather GPS	24.3 C / 1014.3 mb	Latest Report 2014 04 08 1930Z	
Torpedo GPS	Vehicle status page	Latest Report 2014 04 08 1817Z	
UBLOX GPS	Vehicle status page	Latest Report 2014 04 08 1930Z	
Weather Station Heading	129.3		
Thruder Heading	24.7 looks good		
Water Speed	0	Current Draw	

Mechanical Checks

Float	Wet-mates connected/lubed		no change	HS
	Connector covers secure		no change ✓	HS
	Drybox secure		✓	HS
	Contact info secure		✓	HS
	Hull		Free of cracks and dings ✓	HS
	Skeg/Fin		Secure ✓	HS
Sub	Hardware secure			HS
	Umbilical visual inspection		Free of voids/defects	HS
	Roll pins inserted		Flushed with surface	HS
	Wings		Hardware secure with Loctite	HS
	Thruder		Hardware secure. No protrusion of fin and bottom back fairing fasteners.	HS

Final Checks

Thruster Spin		Slow, Fast	PC
Thruder Range of Motion		Manual and Command	PC
Rudder Right, Left, Center			PC
Fixed Heading Test (spin)		Heading used, Avoidance Off	PC
Waypoint Course Test (spin)		Waypoint used, Avoidance Off	PC
Buoy Release Mechanism		Tested and Secure	PC
Photo Document			
RDF Beacon(s) Test		Test with receiver	
Autonomous Obstacle Avoidance		Enabled	
WGMS Alarms Checked / Cleared		"Out of Bounds" = Red. All others = Yellow/Green	

Comments

Port side Octopus 1: CCU, water speed, solar panel mid and aft (3, 4)
 Stbd side Octopus 2: CCU, buoy release, solar panel fwd (1), radar reflector, light

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: *VehicleName YYYYMMDD*