

SANDSHARK™

SandShark UUV Pre-Dive Checklist

(To be completed at beginning of each dive or series of dives.)

Date:	Deployment:			
Ship:	UUV:			
Location:	Operator:			
On-Deck Checkout: Mechanical Systems				
Item/Procedure	Readings	Specifications	Initials	
Shell		Fasteners tight		
Ortman keys		Installation checked		
Lift point		Installation checked		
Propeller retaining ring		Installation checked		
Duct		Fasteners tight		
Vacuum port		Installation checked		
Altimeter		Installation checked		
Antenna		Fasteners tight		
Fins (x4)		Installation checked		
On-Deck Checkout: Cables & Connectors				
Item/Procedure	Readings	Specifications	Initials	
Cables		Visually inspected for damage		
Connectors		Visually inspected and checked tight		
Dummy plugs		Installation checked		
On-Deck Checkout: Communications				
Communication link	IP address	Comms established?	Specifications	Initials
Ethernet		Yes No	Via payload connector	
Wi-fi		Yes No	Via "adapt" network	
On-Deck Checkout: Apps (ROS)				
Item/Procedure	Readings		Specifications	Initials
Rudder/elevator homing	Pass	Fail	Homes when commanded	
Vehicle status lights	Pass	Fail	Only blue + green LEDs on = Pass; Red LED on = Fail	
Battery SOC	%		(rostopic: /gasgauge/gasgauge)	
Battery voltage	V		>21V (rostopic: /gasgauge/gasgauge)	
Internal pressure	kPa		Recorded	
Navigation - GPS	Pass	Fail	Latitude/longitude correct to within 10m radius	
Navigation - orientation	Pass	Fail	Roll, pitch, and heading correct to within 5deg	
Payload				
On-Deck Checkout: Mission Test				
Item/Procedure	Readings		Specifications	Initials
Run test mission	Pass	Fail	Planned and launched in QGroundControl	
Strobe	Pass	Fail	Flashes during test mission	
Test mission abort	Pass	Fail	"Land" in QGroundControl	
In-Water Checkout (if permitted by CONOPS)				
Item/Procedure	Readings		Specifications	Initials
Vehicle status lights	Pass	Fail	Only blue + green LEDs on = Pass; Red LED on = Fail	
Ballast/trim	Pass	Fail	Vehicle floats level	
Comms range			Vehicle replies	

Signature: _____