

JOB SITE SAFETY ANALYSIS



Category/Task	Name of Supervising Department
Water Safety, Deck Crew and Dive Operations	Safety Office and Deck Crew
Revised by	Last Revision
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Required Training	Required PPE
 Tether Protocol Satisfactory Deck Ops Training Approval Familiarity with TecXotic's Safety Checklist Back Safety and Proper Lifting Safety Awareness Orientation Power Up Protocol Hazardous Materials Handling Training Personal Protective Equipment (PPE) Training Safe Handling of Power Tools Training 	 Non-slip covered shoes Safety goggles Safety helmets Safety high grip cotton gloves Ear protectors Work vest type 2 (only ROV handling operators) Sun protection Respirators or masks

TASK	HAZARD	CONTROLS
Pre-Launch	Fall/Slip/Trips	 Ensure all operators wear proper non-slip and covered footwear. Ensure the working area is clear of obstacles. Clear the surfaces of tripping hazards. One operator has to ensure tether control all times before launch.
	Back strain from heavy lifting	 Ensure a proper posture when carrying heavy machinery. Make sure that the ROV is carried by two operators simultaneously. Verify proper tether control and handling.
	Eye damage	1. Ensure all operators always wear proper safety goggles.
	Finger damage	1. Ensure all operators always wear proper safety gloves.

TASK	HAZARD	CONTROLS
System Setup	Electric shock	 Ensure all power is cut off. Verify that the circuit breaker and the power switches on the Main Control Enclosure (MCE) are off. Verify that both Thruster Control Enclosure (TCE) and Main Control Enclosure (MCE) are properly sealed. Ensure all ROV tools are appropriately guarded and electrical appliances are protected. Verify there is no loose wiring around ROV's construction.
	Finger damage	 Verify there is no loose wiring around ROV while carrying. Ensure there are not sharp edges around ROV's construction. Have a proper hand grip while carrying ROV. Avoid power tools on deck.
	Fall/Slip/Trips	 Visualize trajectory and look for obstacles before moving with a load. Correct tether handling.

TASK	HAZARD	CONTROLS
System Power Up Burns/Fire Finger damage	Electric shock	 Ensure handling with dry hands. Verify a clear perimeter around the ROV when turned on. Ensure the emergency stop button is visible and accessible for an immediate shutdown during the power up sequence.
	1. Verify no smoke or sparks are visible.	
	Finger damage	1. No operator is in contact with the ROV during the power up sequence.

TASK	HAZARD	CONTROLS
Drowning/Fall/Sli p/TripsSunburn/Freezin gLaunchElectric shockFinger damage/Back damage		 Ensure the working area is clear of obstacles. Avoid working near the pool border when possible. Verify proper tether handling.
	-	1. Ensure all operators wear proper sun protection. 2. Use adequate clothing.
	Electric shock	1. Ensure the emergency stop button is visible and accessible for an immediate shutdown in case a leak or a system malfunction is detected.
	 Make sure that the ROV is carried by two operators simultaneously. Adequate holding grip (use palms, not fingers). Ensure a proper posture when carrying the ROV. Avoid power tools on deck. 	

TASK	HAZARD	CONTROLS
Drowning/Fall/Sli p/TripsSunburn/Freezin gRetrievalElectric shockFinger damage/Back damage		1. Ensure the working area is clear of obstacles.2. Avoid working near the pool border when possible.3. Verify proper tether handling.
	·	1. Ensure all operators wear proper sun protection2. Use adequate clothing.
	Electric shock	1. Ensure the emergency stop button is visible and accessible for an immediate shutdown in case a leak or a system malfunction is detected.
	1. Make sure that the ROV is carried by two operators simultaneously.2. Adequate holding grip (use palms, not fingers).3. Ensure a proper posture when carrying the ROV.4. Avoid power tools on deck.	