64° WEST

Halifax Robotics

Halifax, Nova Scotia

Job Site Safety Analysis

J

JOB STEP:	POTENTIAL HAZARDS:	RECOMMENDED RISK MITIGATION METHOD(S)	PERSON(S) RESPONSIBLE:
1: Assemble equipment at poolside control station	 1A: Potential damage to mission-critical equipment through mishandling 1B: Potential injury to extremities of poolside teams via dropping equipment. 	 1A-1: Ensure all equipment is properly lifted and carried by poolside control teams 1B-1: Ensure proper PPE is worn by all poolside crew members 	Liam Acres Francisca Annan Logan Crooks Daphne Finlay Matthew Glencross Gabriel Iturriaga
2: Connect all poolside electrical connections from laptop to surface enclosure	 2A: Potential damage to mission-critical equipment through electrical discharge 2B: Potential injury to poolside crew members via electrical discharge 2C: Potential tripping hazard due to unsecured wiring or other obstructions 	 2A-1: Ensure all wiring is properly insulated, and that no live power is running during setup 2B-1: Ensure all crew members are properly grounded and wearing correct PPE 2C-1: Ensure all wiring/cables are properly secured to pool deck, and do not pose a risk to team members or MATE staff 	Liam Acres Logan Crooks Matthew Glencross

3: Connect laptop to external power and ROV surface tether 4: Check over all	 3A: Potential damage to mission-critical equipment through incorrect electrical connections 4A: Potential injury to poolside crow members 	 3A-1: Ensure all wiring is properly insulated, and that MATE power supply is of correct voltage for laptop external charger (120v AC) 4A-1: Ensure all crew members are properly 	Liam Acres Matthew Glencross Francisca Annan
for possible hazards or MATE safety violations	via electrical discharge 4B: Potential damage to mission-critical equipment through incorrect connections to surface control equipment	grounded and wearing correct PPE 4B-1: Ensure all wires/cables/plugs are properly insulated, and connected to the correct components	
5: Perform initial startup	5A: Potential damage to	5A-1: Ensure power	Liam Acres
check on all ROV systems	ROV systems through	converter is dialed to	Matthew Glencross
	voltage overload	correct voltage (12v)	
	BOV thrusters through	thrusters are not run at	
	running aquatic thrusters	high speeds while in	
	in open air	open air	
6: Transfer physical ROV	6A: Potential damage to	6A-1: Ensure all poolside	Liam Acres
from poolside operation	ROV frame and systems	crew members are	Francisca Annan
team to poolside	via accidental dropping	extremely cautious when	Matthew Glencross
observation team for		handling ROV, taking care	
ROV insertion		to mind all tether cables	
	74. Detential democrate	and other hazards	
7: ROV lowered by	7A: Potential damage to	7A-1: Ensure sufficient	Logan Crooks
team into water body	tension on surface tether	available while ROV is	Gabriel Iturriaga
lean into water body	7B : Potential injury to	lowered into nool	Gabrier iturriaga
	observation crew	7B-1: Ensure observation	
	through falling into	crew is sufficiently back	
	competition pool	from pool edge when	
		lowering ROV	