



Job Site Safety Analysis

Nova Underwater Technologies

| JOB STEP: | POTENTIAL HAZARDS: | RECOMMENDED RISK MITIGATION METHOD(S) | PERSON(S) RESPONSIBLE: |
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| <p>1: Assemble equipment at poolside control station</p> | <p>1A: Potential damage to mission-critical equipment through mishandling 1B: Potential injury to extremities of poolside teams via dropping eqpmt.</p> | <p>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</p> | <p>Liam Acres, Daphne Finlay, Saul Hughes, Matt Glencross, Logan Crooks, Noah Mason</p> |
| <p>2: Connect all poolside electrical connections from laptop to surface enclosure</p> | <p>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</p> | <p>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</p> | <p>Liam Acres, Daphne Finlay, Matt Glencross, Logan Crooks</p> |
| <p>3: Connect laptop to external power and ROV surface tether</p> | <p>3A: Potential damage to mission-critical equipment through incorrect electrical connections</p> | <p>3A-1: Ensure all wiring is properly insulated, and that MATE power supply is of correct voltage for laptop external charger (120v AC)</p> | <p>Liam Acres, Saul Hughes</p> |
| <p>4: Check over all connections and plugs for possible hazards or MATE safety violations</p> | <p>4A: Potential injury to poolside crew members via electrical discharge 4B: Potential damage to mission-critical equipment through incorrect connections to surface control equipment</p> | <p>4A-1: Ensure all crew members are properly grounded and wearing correct PPE 4B-1: Ensure all wires/cables/plugs are properly insulated, and connected to the correct components</p> | <p>Noah Mason</p> |



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| <p>5: Perform initial startup check on all ROV systems</p> | <p>5A: Potential damage to ROV systems through voltage overload 5B: Potential damage to ROV thrusters through running aquatic thrusters in open air</p> | <p>5A-1: Ensure power converter is dialed to correct voltage (12v) 5B-1: Ensure ROV thrusters are not run at high speeds while in open air</p> | <p>Liam Acres, Daphne Finlay</p> |
| <p>6: Transfer physical ROV from poolside operation team to poolside observation team for ROV insertion</p> | <p>6A: Potential damage to ROV frame and systems via accidental dropping</p> | <p>6A-1: Ensure all poolside crew members are extremely cautious when handling ROV, taking care to mind all tether cables and other hazards</p> | <p>Liam Acres, Daphne Finlay, Matt Glencross, Logan Crooks</p> |
| <p>7: ROV lowered by poolside observation team into water body</p> | <p>7A: Potential damage to ROV systems via sudden tension on surface tether 7B: Potential injury to observation crew through falling into competition pool</p> | <p>7A-1: Ensure sufficient slack on surface tether is available while ROV is lowered into pool 7B-1: Ensure observation crew is sufficiently back from pool edge when lowering ROV</p> | <p>Matt Glencross, Logan Crooks</p> |