

Job Safety Analysis (JSA)

Personal Protective Equipment (PPE)

- Wear closed-toe shoes with grip.
- Wear tight-fitting long sleeves.
- Ensure that any long hair is tied back.
- Members are on high alert throughout the process.

Jobsite Operations

Task	Hazards	Controls	Persons responsible
Power-up	Electrocution	<ol style="list-style-type: none"> 1. Ensure all electronics are positioned away from the splash-zone. 2. Verify that no loose electrical components are exposed. 3. Turn off power immediately upon discovering any error. 	Pilots- Vehd, Rishi
Tether setup	Tripping	<ol style="list-style-type: none"> 1. Ensure that the tether is secured to the table 2. Verify that all wires are snug within the tether. 3. Conduct a quick tug test to confirm that the tether is securely attached. 4. No running in the pool. 	Tether Manager- Kounish
Pneumatic set-up	Flying Debris	<ol style="list-style-type: none"> 1. Ensure the pneumatic box and 	Tooling specialist – Kounish

		<p>air compressor are secure.</p> <p>2. Verify that pneumatic tubing is not easily removable</p> <p>3. Keep PSI below 40.</p>	
Open Poolside	<p>Tripping</p> <p>Falling</p> <p>Drowning</p>	<p>1. Clear the poolside of any possible tripping hazards.</p> <p>2. Provide a clear spot for the tether and the tether manager.</p>	Tether manager – Kounish
ROV deployment	<p>Electrocution</p> <p>Blunt injury</p>	<p>1. Check that all parts are on securely, and especially check that thruster guards are on.</p> <p>2. Hold the ROV tightly with two hands from a secure location at the top of the frame.</p> <p>3. Ensure that the enclosure is properly sealed.</p> <p>4. Move slowly and carefully to minimize the chance of injury.</p>	Tether Manager – Kounish
ROV piloting	<p>Electrocution</p> <p>Body part injury</p>	<p>1. Notify the tether manager explicitly when leaving and entering control.</p>	Pilots – Vehd, Rishi

		<ol style="list-style-type: none"> 2. Stay clear of the pool/ROV when not necessary. 3. Verify that enclosure humidity has not spiked. 4. In case of a malfunction shut off power immediately. 	
ROV retrieval	Electrocution Blunt injury	<ol style="list-style-type: none"> 1. Check that all parts are on securely, and especially check that thruster guards are on. 2. Hold the ROV tightly with two hands from a secure location at the top of the frame. 3. Ensure that the enclosure is properly sealed. 4. Move slowly and carefully to minimize the chance of injury. 	Tether Manager – Kounish