

ROV Operation safety risks and recommendations Initial under proper role in the responsible column when applicable

No.	Task	Hazard/Cause	Potential Consequences	Risk Reducing Measures	Responsible
1	Demonstration setup and takedown	Heavy objects Unstable objects	Back injury Finger injury	Never lift a heavy object alone, lift with knees Have one employee always holding possible rolling/sliding objects	Tether Managers- Sarah Redstrom Camila Crespo Pilot - Sophia Clingan
		Wet pool deck	Falling on deck, general trauma	Always wear closed-toed, high traction shoes	Copilot – Ava Farrell
2	Tether connection to and disconnection from control box	Exposed conductors  Pneumatic leak	Electrocution  Soft tissue damage	Make sure power supply is off and carefully follow pre-power checklist  Never block pneumatic lines with fingers, never manipulate pneumatic components when pressurized	Pilot- Sophia Clingan Copilot- Ava Farrell
3	ROV deployment	Wet pool deck	Fall into water, drowning	Keep center of mass over deck, stay away from edge if not strong swimmer	Tether Managers- Sarah Redstrom Camila Crespo

		Fingers in motors	Finger damage	Ensure thruster guards intact before powering	
		Hair in motors	Neck strain, hair loss	Always tie hair back when operating ROV	
4	ROV operation	Wet pool deck	Falling on deck or in water, drowning	Keep center of mass over deck, stay away from edge if not strong swimmer	Tether Managers- Sarah Redstrom Camila Crespo
		Tether entanglement	Falling on deck or in water, drowning	Avoid loops in tether above deck, keep organized	
5	ROV retrieval	Wet pool deck	Falling on deck or in water, drowning	Keep center of mass over deck, stay away from edge if not strong swimmer	Tether Managers- Sarah Redstrom Camila Crespo
		Tether entanglement	Falling on deck or in water, drowning	Avoid loops in tether above deck, keep organized	
		Fingers in motors	Finger damage	Ensure thruster guards intact before powering	
		Hair in motors	Neck strain, hair loss	Always tie hair back when operating ROV	
		Heavy objects	Back injury	Never lift a heavy object alone, lift with knees	