

2024

JOB SAFETY ANALYSIS

Stingy 2024



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Image 1. Taken By: Bob Thomson



Image 2. Taken By: James Rawling

CEO	Lydia Thomson
CFO	Abbey Glover
сто	Lucas Thomson
Pilot	Gus Wirgue
Co-Pilot	James Rawling
Payloader	Lizzie Rabbideau
Safey Officer	Sarah Rabbideau
Mechanic	Kylie Gagnon
Project Specialist	Myah Rondeau

Image 3. Created By: Lydia Thomson



Image 4. Taken By: Bob Thomson



Job Safety Analysis

Entering/exiting the pool deck area

Describe job step	Potential hazards	Recommend risk control measure	Responsible Person (s)	Initial
Caring Equipment onto pool deck	Damage to equipment	Each piece of equipment has its own container to carry onto or off deck	Lydia Thomson, Lucas Thomson, Abbey Glover, Kylie Gagnon, James Rawling, Elizabeth Rabbideau, Sarah Rabbideau, Gus Wirgau, Myah Rondeau	
Forgotten equipment	Missing important equipment that harm the team ability to perform	Using the teams Equipment check off sheet	Elizabeth Rabbideau	

Set Up

Tether damage	Electrocution	Inspect tether for damage	Elizabeth Rabbideau	
Tripping on tether or slipping on water	Slipping/tripping	Gripped shoes, tether placed in a reasonable location, Identify potential tripping hazards	Lydia Thomson, Lucas Thomson, Abbey Glover, Kylie Gagnon, James Rawling, Elizabeth Rabbideau, Sarah Rabbideau, Gus Wirgau, Myah Rondeau	
Slipping into water	Drowning	Two lifeguards on deck at all times	Sarah Rabbideau, Elizabeth Rabbideau	



Job Safety Analysis

Describe job step	Potential hazards	Recommend risk control measure	Responsible Person (s)	Initial
Moving Equipment	Damaging equipment	Each piece of equipment has its own container to carry onto or off deck	Lydia Thomson, Sarah Rabbideau	
Sharp edges, Thruster guards	Injury	Prior to competition all sharp edges are sanded down, and thruster guards are installed on ROV	Sarah Rabbideau	
Hair sucked into thruster	Hair Tangled	Hair kept pulled back remove risk of it getting sucked into thruster	Sarah Rabbideau	
Miscommunication or confusion	Confusion, arguing	CEO announcing each step	Lydia Thomson	
Lifting ROV with legs	Broken ROV	Practice lifting the ROV the proper way before competition	Lucas Thomson	



Job Safety Analysis

Powering Up

Describe job step	Potential hazards	Recommend risk control measure	Responsible Person (s)	Initial
Power coming to ROV	Broken ROV	25-amp fuse	Gus Wirgau	
Thruster Check	Malfunctioning ROV	Complete a test run of up and down and side to side thrusters to check each thruster is running	James Rawling	

Pool side operations

Injury	Hurt team members	Ever team member is trained on proper deck operations and how to handle the ROV and equipment before competition	Lydia Thomson, Lucas Thomson, Abbey Glover, Kylie Gagnon, James Rawling, Elizabeth Rabbideau, Sarah Rabbideau, Gus Wirgau, Myah Rondeau	
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System breakdown

Equipment packaging	Damage equipment	Putting each piece of equipment in its designated spot	Lydia Thomson, Lucas Thomson, Abbey Glover, Kylie Gagnon, James Rawling, Elizabeth Rabbideau, Sarah Rabbideau, Gus Wirgau, Myah Rondeau	
Miscommunication or confusion	Confusion, arguing	CEO announcing each step	Lydia Thomson	



UR2 Training and ECOS

Equipment Check Off Sheet (ECOS)

- ☐ Control Station
 - ROV
 - Xbox controller
 - 2 Monitors
 - Computer
 - Keyboard
 - Mouse
 - Mousepad
 - Tether
 - Powerbox (if not provided)
 - Box for tether
- Equipment
 - Rock sampler
 - Recovery line
 - Measuring device
- ☐ Props for On Deck
 - Irrigation system
 - ADCP
 - Smart cable

Image 5. Created By: Gus Wirgau

Under Water
Reasearch
Robotics (UR2)
Company
Required
Training

Our company has various training levels to ensure everyone practices safety. Each team member must complete a basic training level to work in the lab and be on deck. Each team member must complete a 10-hour OSHA Certification to work on equipment and use tools. The company requires the team's CEO and Safety Officer to complete a 15-hour OSHA Certification to expand their knowledge and keep the team safe. The CEO and the Safety Officer can stop any activities if team members are not being safe. Also, each team member is offered additional training to be a certified lifeguard, but it is not required.

Equipment
Check Off
Sheet (Figure
2)

The team uses the Equipment Check-Off Sheet before coming on deck and after to make sure each piece of equipment is accounted for and packed away to prevent any damage to the equipment.

Team's Safety Training Each team member must have basic training on safety in the lab and the importance of personal protective equipment (PPE). The team also follows a safety protocol requiring anyone on deck or who works on equipment to have a 10-hour OSHA Certification. In addition, the team has two certified lifeguards on deck at all times. Our final safety measure is that our team CEO and Safety Officer have taken an additional 5-hour OSHA Certification.



Safety Training Check-Off Sheet

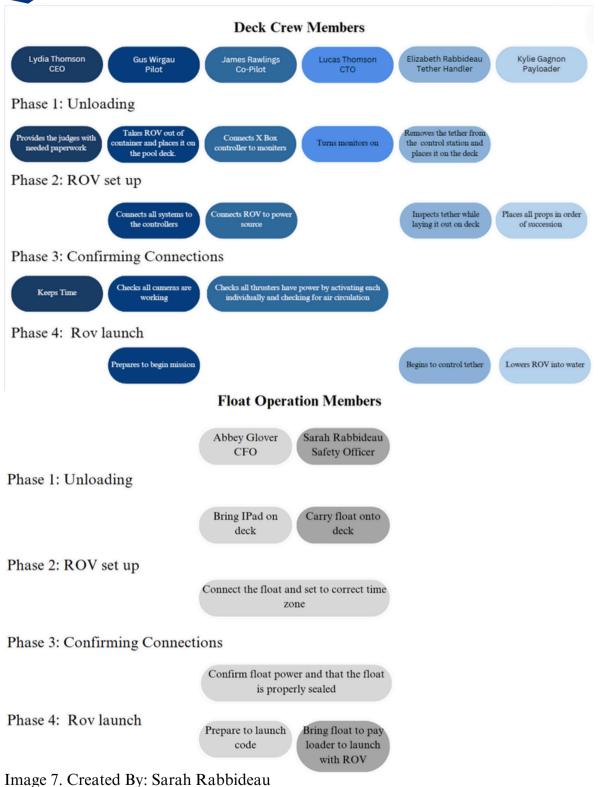
Team Member and Job	Basic Safety Training	10 Hour OSHA Safety Certification	Certified Lifeguard	15 Hour OSHA Safety Certification
Lydia Thomson (CEO)	V	✓		abla
Sarah Rabbideau (Safety Officer)		\checkmark		abla
Kylie Gagnon (Payloader)				
Lucas Thomson (CTO)				
Lizzie Rabbideau (Tether Handler)		V	V	
Gus Wirgau (Pilot)		V		
James Rawling (CO-Pilot)		V		
Myah Rondeau (Project Specialist)	abla	V		
Abbey Glover (CFO)	V	✓		

Image 6. Created By: Lydia Thomson

Safety Check Off Sheet The Team uses the Safety Check-Off Sheet to keep team members safe. The Safety Officer knows each person's level of training and knowledge. This helps prevent injuries because every person has to complete their training. It also helps the Safety Officer identify team members who might be uneducated in certain safety protocols.



On Deck Flow Chart



Created: May 13th