

JOB SAFETY ANALYSIS

Safety Information for Underwater Research Robot Company

05/2019



| TASK | HAZARDS | CONTROLS |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. Review electrical schematic and be sure all electrical connections are properly placed | | Remove any confusion on how electrical system works |
| 2. Set up ROV and test moving parts | a) Hair/clothes can get caught in moving parts b) Bodily harm from accidents on site | a) Proper attire is worn/long hair tied back b) Closed-toed shoes, safety glasses are worn |
| 3. Ensure all ROV parts are secured and properly wired | a) Cause bodily harm on job site b) Can pollute work site with fallen debris | ROV is thoroughly checked over for loose parts and improper wiring before product demo |
| 4. Ensure that ROV has no sharp edges | a) Can cause harm to operators b) Can cause harm to site | ROV is thoroughly checked over for sharp edges before product demonstration begins |
| 5. Ensure tether is secured and a 25 amp fuse is capable and in place | a) loss of tether or ROV b) electrical shortage or withdrawal | ROV's tether is thoroughly looked over to ensure no rips and that a 25 amp fuse is in play |
| 6. Testing all thruster and other moving parts on the ROV | a) can cause injury to inspector | Inspector must be alert to caution tape near moving parts and communicate with operator of ROV at current time |
| 7. Ensure that single point attachment is secure and shows no signs of damage | a) can cause electrical problems b) can be of harm to operators near | Inspector of single point attachment must be sure that it is good condition and is ready for use. |

Other Information:

https://www.marinetech.org/files/marine/files/ROV%20Competition/2015%20files/HSE_Handbook_number_3_As_of_11_19_2013_AW.pdf

Contributors:

UR² Safety and Regulations: Safety Officer - Savannah Thomson

Created:

05/2019

For more information about this JSA, contact the *Office of Environment, Health and Safety* at Underwater Research Robot Company Headquarters, 500 W. Fletcher Alpena, Michigan 49707

