Jobs Safety Analysis

Task	Hazards	Recommendations
Task 1 1. Temperature of vent water 2. Thickness of ice 3. Depth of sea 4. Connect ESP cable to power & communication hub	The depth sounder could break and prevent the team for continuing the mission.	Make sure all tools are working properly and efficient.
Task 2 1. Identify 4 cube serial numbers 2. Transport 4 cubes to collection basket	The cameras identifying the serial numbers could malfunction causing the ROV to be unable to complete the task.	Make sure that cameras are waterproofed and checked before competition.
Task 3 1. Collect oil samples(2) 2. Return oil samples to the surface 3. Analyze gas chromatograph 4. To determine oil origin	The engineered claw could bust or lose connection on the hydraulic line.	Make sure all connections are secure and efficient.
Task 4 1. Take a picture of two Coral Colonies 2. Determine the growth, stability, and health of the Coral 3. Collect two Coral samples to the surface	Too much force put on the claw by the driver and/or the ROV itself, causing the sample to be crushed.	Program the claw to close slower to decrease the chances of crushing the coral.

Task 5 1. Install Flange onto the Wellhead 2. Secure w/1 bolt 3. Install cap over flange 4. Secure w/2 bolts	If there is too much force, the PVC items could be destroyed or may be damaged to the point of being non-functional.	Ensure that the driver uses the right amount of force to grasp the object allowing it to be picked up and transported to the correct location.

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