

Job Safety Analysis

Task	Hazard	Prevention
Pre-Launch		
Wet system operation test	<ul style="list-style-type: none"> • Electrical shock or electrocution 	<ul style="list-style-type: none"> • Check over all insulation and waterproof all elements.
Dry system operation test	<ul style="list-style-type: none"> • Electrical fire from damaged components 	<ul style="list-style-type: none"> • Check for proper insulation of all wires and electrical components. • Use proper voltage to prevent from overvoltage.
Launching and removing USS Phoenix from water	<ul style="list-style-type: none"> • Back injury from heavy lifting • Slipping and falling on the pool side 	<ul style="list-style-type: none"> • Use proper lifting techniques. Ask for help if needed. • No running on poolside. Wear slip resistant closed toed shoes. Use caution.
Transportation of USS Phoenix	<ul style="list-style-type: none"> • Slipping, Tripping, Falling • Back Strains • Physical Strain • Foot Injury 	<ul style="list-style-type: none"> • Wear slip resistant, closed toed shoes • Require two company members to transport the USS Phoenix • Require an additional member to look for any obstacles and direct the path • Stop transportation of the USS Phoenix if any member has a strain or physical injury • Make sure that all members working near the pool side can either swim, or will wear a life jacket.
Setting up the USS Phoenix	<ul style="list-style-type: none"> • Electrical shock or electrocution 	<ul style="list-style-type: none"> • Never handle the USS Phoenix with wet hands. Keep electrical appliances dry. Keep all electrical components insulated. • Visually check cables and connectors to make sure they are properly tightened and sealed.

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Launching		
Powering on the USS Phoenix	<ul style="list-style-type: none"> • Electrical shock • Overvoltage 	<ul style="list-style-type: none"> • Always keep power supply within safe parameters: away from water, away from anybody off the team, away from dangerous components.
Operating thrusters	<ul style="list-style-type: none"> • Damage to fingers 	<ul style="list-style-type: none"> • Always keep safety shrouds on while powered to keep away from bodily injury.
Setting up and managing the tether	<ul style="list-style-type: none"> • Loose tether • Tangled tether • Tether damaged from pulling 	<ul style="list-style-type: none"> • Connect the tether to the control box and the USS Phoenix. Put a maximum of two people in charge of the tether. • Properly wrap tether before placing the USS Phoenix on the transportation cart.
Developing the USS Phoenix		
Accessing tools	<ul style="list-style-type: none"> • Tripping on miscellaneous tools or cables. • Damage to tools through misuse. 	<ul style="list-style-type: none"> • Having an organized work space. • Have equipment stored in designated places • Keep away from the hands of those that don't know how to handle the tools.
Applying sealant	<ul style="list-style-type: none"> • Eye and skin irritation 	<ul style="list-style-type: none"> • Wear proper personal equipment (PPE). • Keep compound away from the skin.
Using hand tools (hacksaw, hammers, screwdriver, clamps, wrenches, pliers, channel lock, etc.)	<ul style="list-style-type: none"> • Eye injury • Skin perforation 	<ul style="list-style-type: none"> • Wear safety goggles and gloves when using a saw • Wear gloves when using hand tools • Wear masks when needed
Using power tools (drill press, drill, heat gun, etc.)	<ul style="list-style-type: none"> • Eye injury • Skin injury 	<ul style="list-style-type: none"> • Wear safety goggles when powering any power tools. • Wear safety gloves while using any power tool.