



Job Safety Analysis

The Center for Robotics Development, Vladivostok, Russia

JSA prepared by: Anton Yakovivskiy

JSA prepared date 25-May 2017

Stage of work	Potential hazard	Risk control measures	Responsibility
ROV development			
Machining and tooling	Machinery-related injuries	Materials to be machined shall be securely fastened. Wear protective clothing, gloves and goggles.	Engineers
Working with power tools	Noise, Vibration, Dust, Electrical hazards	Wear protective clothing, gloves, goggles and respirator. Ensure all tools are appropriately guarded. Ensure all extension leads are in a safe condition with plugs and connections.	Engineers
Handling chemicals	Exposure to chemicals, intoxication	Always review the Material Safety Data Sheet for each chemical before using. Avoid direct contact with chemicals. Use Personal Protective Equipment or Safety Data Sheet Equipment. Adjust ventilation for proper air circulation.	Engineers
ROV operation			
Lifting / Moving objects	Back strain	Avoid sharp movements and do not move too much objects.	Engineers, tether-manager
Working on electrical devices	Electrical hazards	Ensure all electrical devices are appropriately guarded and electrical appliances are protected by means of a residual current device. Ensure all extension leads are in a safe condition with plugs and connections.	Engineers, pilot
Deploy/recovery ROV near pool (Slippery Surfaces)	Slips, trips, falls	Attentively inspect area, watch your feet and wear appropriate non-slip footwear.	Everybody
Tether management	Slips, trips, falls	When the tether is not used, it should be neatly folded. When used, it should always be under control.	Tether-manager
Control Box (when turned on)	Electric shock	Do not touch Control Box with wet hands.	Pilot