**Safe Work Requirement**

Pressure Jetting work instruction

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| PURPOSE High pressure water jet cleaning is a means whereby water at pressures varying in PSI (Pounds per Square Inch) is delivered by specialized equipment to remove residue, scale etc. from plant and equipment.  The purpose of this instruction is to provide regulation to control the maintenance and operation of high pressure water jetting to control the hazard while it has been used. SCOPE This instruction is applicable to all ECDC high pressure water jetting, to the extent that it does not conflict with the applicable OEM instructions. RESPONSIBILITY      Rig Manager The Rig Manager has overall responsibility for using, maintenance, repair and safety issues. This includes overall responsibility for ensuring a system is in place to provide the means of operate and maintenance on the location.  The Rig Manager is responsible for implementing the approved high pressure water jetting safety work instruction at rig site where work is carried out under their control. Additionally, they shall ensure that any subcontractor who working under their direction are fully follow this instruction. HSE Supervisor The HSE Supervisor shall assist the Rig Manager in ensuring all related personnel are trained in the use of high pressure water jetting.  The HSE Supervisor shall periodically verify the employee who have change to operate the high pressure water jetting are trained and certificated.  Providing advice on the use of all types of protective clothing and equipment . Mechanic Providing initial training to the employee who have change to operate the high pressure water jetting and the actions for daily maintenance.  Ensuring that defective part is immediately repaired Operator Understanding fully and applying correctly procedure in the course of their work at rig site.  Ensuring that safe working practices are being enforced at all times INSTRUCTION AND GUIDELINES    Components of Jetting Systems Comprise This specialized work must only be undertaken by personnel who have been specifically trained in its use.   1. A pump usually of positive displacement type. 2. Flexible high pressure hoses to connect components via purpose made high pressure connections rated for water pressure being used. The use of jubilee clips is forbidden. 3. Lances of varying lengths, manufactured from solid drawn tube. 4. Nozzles of various designs. 5. Failsafe devices - one to shut off the water at the Lance called a dry shut-off safety control valve, the other to shut-off at the discharge of the pump called a dump safety control valve. The dump valve is normally under the control of a person other than the Lance operator.  Training/Operation Operators will require training in the mode of operation of the equipment. The majority of high pressure water jetting operations is team efforts consisting of two or three operators, one member of the team shall be in overall charge.  When working as a team, personnel have allotted positions and duties. Each member shall be trained in the duties of each position, e.g. Lance, failsafe devices, pump, so that their duties can be rotated during any job to minimize fatigue to the Lance operator.  The dangers of getting any part of the body in front of the jet must be strongly emphasized; in particular injury to the feet when cleaning equipment on the floor on which they are standing. Testing of Equipment before Use All safety devices (dump valve, dry shut-off valve etc.) incorporated in the system shall be tested to ensure that they are fully operative. Safety Precautions  1. All water jetting operations will be carried out under a Work Permit. 2. The area of operation shall be clearly cordoned off by barriers. 3. The working floor must be, as far as is reasonably practicable, free of all obstruction. 4. When working in an area where there are open gratings either on the floor or above, the gratings shall be suitably covered to prevent any hazard to persons working above or below. 5. Where work is required to be carried out from elevated positions or scaffold platforms, further measures shall be taken to ensure the persons are not forced backwards by jet reaction, i.e. use of wire mesh enclosure/safety harness. 6. It is forbidden to use any device which could override the failsafe mechanisms. 7. Eye and hand protection must be used at all times while jetting. |