

## Occupational Health and Safety

### PLANT RISK ASSESSMENT

Plant Description:	<b>Pegson/Powerscreen Jaw Crusher</b>	Assessment No:	<b>PRA-03</b>
Prepared by: Date:	<b>Greg Fieldwick</b> <b>08/01/2021</b>	Approved by: Date:	<b>Steven Fieldwick</b> <b>08/01/2021</b>

#### Reference Documents:

Fieldwicks SW102 Jaw Operations  
 Fieldwicks SW108 Jaw Maintenance  
 Fieldwicks SW110 Unblocking procedure  
 Fieldwicks Employee Induction Handbook  
 Manufacturers Maintenance Manual  
 Manufacturers Operating Manual

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Entanglement:</b></p> <p><i>Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</i></p>	20	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP102, SWP108, SWP110 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons and lanyards fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Crushing:</b></p> <p><i>Uncontrolled or unexpected movement of the plant</i></p>	20	<ul style="list-style-type: none"> <li>Licensed and Competent Operators</li> <li>No unauthorised personnel allowed at the controls of the machine</li> <li>Fieldwicks SWP102, SWP108, SWP110 to be read and understood by all operators</li> <li>Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>Personnel to wear correctly fitted clothing and PPE</li> <li>Emergency stop buttons and lanyards fitted</li> <li>Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>Isolation Procedures are undertaken before any maintenance activity</li> <li>Machine fitted with movement alarm</li> </ul> <p>Use of remote control or umbilical cord to move machine</p>	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Cutting, Stabbing, Puncturing:</b></p> <p><i>Contact with moving parts of machine, sharp objects</i></p>	20	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP102, SWP108, SWP110 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons and lanyards fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Shearing:</b></p> <p><i>Body parts sheared between two parts of the machine or other structures</i></p>	16	<ul style="list-style-type: none"> <li>• All persons to stand clear when lowering and raising dirt conveyor</li> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP102, SWP108, SWP110 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons and lanyards fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Striking:</b></p> <p><i>During operation of plant, moving parts of plant, movement of plant</i></p>	16	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP102, SWP108, SWP110 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to moving belts, rollers, roller mounts.</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons and lanyards fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Use of remote control or umbilical cord to move machine</li> </ul>	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>High Pressure Fluid:</b></p> <p><i>Contact with high pressure fluids during operation or maintenance</i></p>	16	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine or to carry out maintenance</li> <li>• Fieldwicks SWP102, SWP108, SWP110 to be read and understood by all operators</li> <li>• Check leaks with cardboard not hands</li> <li>• Personnel to wear correctly fitted clothing and PPE</li> <li>• Emergency stop buttons fitted</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential oil leaks that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> </ul>	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Electrical:</b></p> <p><i>Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</i></p>	23	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine or to carry out maintenance</li> <li>• Fieldwicks SWP102, SWP108, and SWP110 to be read and understood by all operators</li> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine is fitted with circuit breakers and fuses</li> <li>• JSA to assess risks from on site electricity</li> <li>• Fieldwicks SWP102, SWP108, and SWP110 to be read and understood by all operators</li> </ul>	11



Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Explosion:</b></p> <p><i>Explosion of onboard fuel supply or other substances</i></p>	16	<ul style="list-style-type: none"> <li>• Operator Manual Located on Machine at all times</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• All fluid lines are relieved on any pressure before they are disconnected and/or repaired</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine is fitted with circuit breakers and fuses</li> <li>• Fieldwicks SWP102, SWP108, and SWP110 to be read and understood by all operators</li> </ul>	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Slipping, Tripping, Falling:</b></p> <p><i>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</i></p>	17	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine or to carry out maintenance</li> <li>• Fieldwicks SWP102, SWP108, and SWP110 to be read and understood by all operators</li> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Handrails and ladders in place to allow for safe access and egress</li> <li>• All personnel accessing and egressing machine must always maintain a 3 point contact</li> <li>• Operators to move over and around machine in a careful and calm manner</li> <li>• Operators to take particular care moving around machine when wet.</li> <li>• Any work carried out above 1.5m must be on an approved platform</li> </ul>	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<b>Ergonomic:</b>  <i>Repetitive body movements, inadequate lighting, poor vision from normal operating position</i>	13	<ul style="list-style-type: none"> <li>Licensed and Competent Operators</li> <li>Use Handrails and platforms provided for safe access and egress</li> <li>All personnel accessing and egressing machine must always maintain a 3 point contact</li> <li>Provide additional lighting if operating during night time.</li> </ul>	5
<b>Suffocation:</b>  <i>Exhaust Gases, atmospheric contamination, other fume sources</i>	16	<ul style="list-style-type: none"> <li>Licensed and Competent Operators</li> <li>No unauthorised personnel allowed at the controls of the machine</li> <li>Fieldwicks SWP102, SWP108, and SWP110 to be read and understood by all operators</li> <li>Operator Manual Located on Machine at all times</li> <li>Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>Machines not to be operated within an enclosed building without appropriate venting</li> </ul>	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>High Temperature:</b></p> <p><i>Engine or exhausts, fluids or other exposure to high temperatures</i></p>	16	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP102, SWP108, and SWP110 to be read and understood by all operators</li> <li>• Operator Manual Located on Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fluids allowed to cool prior to maintenance works being carried out.</li> <li>• Engine unit covers to be kept in place during operation</li> <li>• Appropriate PPE gear to be worn</li> </ul>	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<i>Falling / Moving objects</i>	20	<ul style="list-style-type: none"> <li>Licensed and Competent Operators</li> <li>Appropriate PPE gear worn</li> <li>All personnel to keep clear of operating plant unless necessary</li> <li>When close to operating plant remain vigilant and do not turn back to machine</li> </ul>	8

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level