

Occupational Health and Safety**PLANT RISK ASSESSMENT**

Plant Description:	CAT 325/329/330			Assessment No:	PRA-01
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Prepared by: Date:	Greg Fieldwick 21/06/2019	Approved by: Date:		Steven Fieldwick 21/06/2019	

Reference Documents:

Fieldwicks SW101 Excavator Operations
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>Entanglement: Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</p> <p>Crushing: Uncontrolled or unexpected movement of the plant</p> <p>Cutting, Stabbing, Puncturing: Contact with moving parts of machine, sharp objects</p> <p>Shearing: Body parts sheared between two parts of the machine or other structures</p> <p>Striking: During operation of plant, moving parts of plant, movement of plant</p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Machine guarding in place and checked on a daily basis as part of start up procedures No person permitted to be inside the operating radius of a machine unless they are authorised and has made contact with the operator All obstacles that may be in the path of a machine are removed before work commences Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity Machine fitted with movement alarm Driver only permitted in cab during operation 	2

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> • Warning decals on machine highlighting pinch points / close clearance • Machine controls have their functions labelled • Machines fitted with pattern changes have warning signage to advise operator to check before moving • Machine fitted with warning lights • Machine fitted with rear view mirrors • All obstacles that may be in the path of a machine are removed before work commences • Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Regular job briefing take place between all relevant stakeholders when machine is operating • Lockable cab to prevent unauthorised access • Machine fitted with Spot lights for working in low of no natural light 	

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>High Pressure Fluid: Contact with high pressure fluids during operation or maintenance</p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Operator Manual Located in Cab of Machine at all times • Machine controls have their functions labelled • Machines fitted with pattern changes have warning signage to advise operator to check before moving • Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • All fluid lines are relieved on any pressure before they are disconnected and/or repaired • Isolation Procedures are undertaken before any maintenance activity • Regular job briefing take place between all relevant stakeholders when machine is operating • Lockable cab to prevent unauthorised access • Driver only permitted in cab during operation 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Electrical:</p> <p>Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</p>	23	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP101 to be read and understood by all operators • Operator Manual Located in Cab of Machine at all times • All obstacles that may be in the path of a machine are removed before work commences • Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Machine is fitted with circuit breakers and fuses • Warning signage inside machine to warn of contact with overhead powerlines • Machine fitted with movement alarm • Machine fitted with UHF Radio • Machine fitted with Spot lights for working in low of no natural light • Machine fitted with rear view mirrors 	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Explosion: Explosion of onboard fuel supply or other substances</p>	16	<ul style="list-style-type: none"> Operator Manual Located in Cab of Machine at all times All obstacles that may be in the path of a machine are removed before work commences Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist All fluid lines are relieved on any pressure before they are disconnected and/or repaired Isolation Procedures are undertaken before any maintenance activity Machine is fitted with circuit breakers and fuses Regular job briefing take place between all relevant stakeholders when machine is operating 	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Slipping, Tripping, Falling:</p> <p>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</p>	17	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP101 to be read and understood by all operators • Operator Manual Located in Cab of Machine at all times • Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity • Handrails in place to allow for safe access and egress • All personnel accessing and greasing machine must always maintain a 3 point contact • Slip resistant ladder rails and foot wells are fitted • Machine fitted with Spot lights for working in low of no natural light 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Ergonomic:</p> <p><i>Seating, repetitive body movements, inadequate lighting, poor vision from normal operating position</i></p>	13	<ul style="list-style-type: none"> • Licensed and Competent Operators • Handrails in place to allow for safe access and egress • All personnel accessing and greasing machine must always maintain a 3 point contact • Slip resistant ladder rails and foot wells are fitted • Machine is fitted with a seat belt and warning signage • Machine fitted with movement alarm • Machine fitted with warning lights • Machine fitted with UHF Radio • Machine fitted with Spot lights for working in low of no natural light • Ergonomically designed , fully adjustable operator seat in stalled • Machine fitted with rear view mirrors • Lockable cab to prevent unauthorised access • Windscreen wipers fitted • Driver only permitted in cab during operation 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Suffocation: <i>Exhaust Gases, atmospheric contamination, other fume sources</i></p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP101 to be read and understood by all operators • Operator Manual Located in Cab of Machine at all times • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • All fluid lines are relieved on any pressure before they are disconnected and/or repaired • Isolation Procedures are undertaken before any maintenance activity 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>High Temperature: Engine or exhausts, fluids or other exposure to high temperatures</p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP101 to be read and understood by all operators • Operator Manual Located in Cab of Machine at all times • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • Isolation Procedures are undertaken before any maintenance activity 	5

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Plant Specific Control Measures	Control Measure Description

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