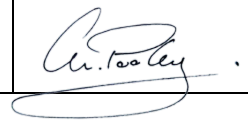


SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Equipment Location:	Hired From All Master Hire Stores	Equipment:	Diesel Dust Suppression Unit		Approved By:	Ben Pooley
				Signature:		
		Manufacturer Details	Generac, Various			
Hazard		Action Required Yes/No	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treatment (Complete Hazard Report Form)	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement						
Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Ensure guards and covers are fitted over all moving parts (e.g., belts, fans). Do not operate unit with guards removed or damaged. Keep hands, hair, clothing, and tools clear of moving parts. Tie back long hair and avoid loose clothing and jewelry. Ensure warning decals are visible and legible. Use PPE including snug-fitting clothing and gloves where necessary. Lock out/tag out before maintenance or cleaning. 	LOW
Crushing						
Can anyone be crushed due to: <ul style="list-style-type: none"> Material falling off the plant? Uncontrolled or unexpected movement of the plant or its load? Lack of capacity for the plant to be slowed, stopped or immobilized? The plant tipping or rolling over? Parts of the plant collapsing? 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Use wheel chocks and parking brakes when unit is stationary. Ensure equipment is operated on flat, stable ground. Keep bystanders clear during operation and transport. 	LOW
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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

<ul style="list-style-type: none"> Coming in contact with moving parts of the plant during testing, inspection, use, maintenance, cleaning or repair? Being thrown off or under the plant? Being trapped between the plant and materials or fixed structures? Other factors? 				<ul style="list-style-type: none"> Inspect hydraulic arms/supports before use. Use proper lifting techniques during loading/unloading. Maintain exclusion zones during operation and maintenance. Install barriers or cones to delineate work area. Regularly inspect for mechanical faults or instability. 	
Cutting, Stabbing and Puncturing					
Can anyone be cut, stabbed or punctured due to? <ul style="list-style-type: none"> Coming in contact with sharp or flying objects? Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LOW	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Ensure all sharp edges and fittings are covered or smoothed. Use gloves during handling and maintenance. Prevent contact with pressurized spray nozzles or hose failures. Keep safe distance from nozzle outlets during use. Ensure unit is depressurized before maintenance. Use manufacturer-approved hoses and fittings. Conduct pre-start inspections for damaged components. 	LOW
Shearing					
Can anyone's body parts be: <ul style="list-style-type: none"> Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Fit guards around rotating and reciprocating parts. Avoid placing body parts near moving components. Ensure maintenance is only conducted when equipment is off and isolated. Wear appropriate gloves and PPE. 	LOW
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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Friction					
Can anyone be burnt, gain abrasions etc. due to: <ul style="list-style-type: none"> Contact with moving parts or surfaces of the plant, or material handled by the plant? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Use gloves to avoid abrasions when handling parts or hose connections. Allow components to cool before handling. Avoid contact with rotating or rubbing parts. Ensure regular maintenance to prevent component overheating. 	LOW
Striking					
Can anyone be struck by moving objects due to: <ul style="list-style-type: none"> Uncontrolled or unexpected movement of the plant or material handled by the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? Mobility of the plant? Other factors? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Maintain a clear exclusion zone during operation. Secure loose materials and parts before starting. Ensure no loose fittings or unsecured attachments. Check stability of equipment before activation. Provide visual/audible alerts when in use. Wear high-visibility clothing and hard hats in operational zones. Use locking pins or clamps on mobile parts. 	LOW
High Pressure Fluid					
Can anyone come into contact with? <ul style="list-style-type: none"> Fluids under high pressure in normal use, in the instance of plant failure? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Inspect hoses and fittings before each use. Never place hands or body near leaks or jetting fluids. Depressurize system before maintenance or hose changes. 	LOW
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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

				<ul style="list-style-type: none"> Use rated hoses and pressure components. Wear pressure-rated PPE, including gloves and face protection. 	
Electrical					
Can anyone be injured by electrical shock or burnt due to: <ul style="list-style-type: none"> The plant contacting live electrical conductors? Plant working close to electrical conductors? Overload of electrical circuits? Damaged or poorly maintenance electrical leads or cables? Damaged electrical switches? Water near electrical equipment? Lack of isolation procedures? Other factors 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LOW	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Inspect cables and plugs for damage. Ensure all electrical components are IP rated for outdoor use. Use RCD-protected outlets. Do not operate in wet conditions unless equipment is waterproof-rated. Tag and test all leads and equipment regularly. Avoid overloading circuits. Ensure electricals are maintained and always checked by a qualified electrician. 	LOW
Explosion					
Can anyone be injured by fuels such as gases, vapors, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LOW	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Refuel only when engine is off and cool. Store fuel in approved containers away from ignition sources. Do not smoke near fuel or during refueling. Keep a fire extinguisher nearby. Conduct regular leak checks on fuel system. Maintain adequate ventilation when operating near enclosed areas. 	LOW
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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Slipping, tripping and Falling

Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:

- Uneven or slippery work surfaces?
- Poor housekeeping, such as shavings in the vicinity of the plant, spillage not cleaned up?
- Obstacles being placed in the vicinity of the plant?
- Other factors?

☒ Yes
☐ No

LOW

☐ Elimination
☐ Substitution
☐ Isolation
☒ Engineering
☒ Administration
☒ PPE

- Follow manufacturers' instructions
- Obey all warning decals
- Keep work area clean and free from obstructions.
- Clean up fluid spills immediately.
- Route hoses to avoid walkways or use cable ramps.
- Use non-slip mats where needed.
- Ensure proper lighting in the work area.
- Provide proper training on housekeeping expectations.
- Wear non-slip footwear.

LOW

High Temperature

Can anyone:

- Come into contact with objects at high temperature?
- Come into contact with hot fluids?
- Be injured by fire?

☒ Yes
☐ No

MEDIUM

☐ Elimination
☐ Substitution
☒ Isolation
☒ Engineering
☒ Administration
☒ PPE

- Follow manufacturers' instructions.
- Obey all warning decals.
- Allow engine/motor to cool before refueling or maintenance.
- Post warning decals near hot surfaces.
- Use thermal gloves when handling heated parts.
- Conduct hot work away from flammable materials.
- Ensure adequate fire control measures nearby.

LOW

Temperature and Thermal Comfort

Can anyone suffer ill-health due to:

- Exposure to high or low temperatures?
- Failure of air conditioning equipment?

☒ Yes
☐ No

LOW

☐ Elimination
☐ Substitution
☐ Isolation
☐ Engineering
☒ Administration
☒ PPE

- Follow manufacturers' instructions.
- Obey all warning decals.
- Be aware of body responses to adverse/ extreme weather conditions (hot/cold).
- Provide shade and hydration in hot environments.
- Rotate operators in extreme heat.

LOW

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

				<ul style="list-style-type: none"> Allow rest breaks in cool or sheltered areas. Provide cooling PPE or fans if applicable. Cease work during extreme weather events. 	
Suffocation					
Can anyone be suffocated due to: <ul style="list-style-type: none"> Lack of oxygen, or atmospheric contamination? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Do not operate diesel engine in confined or poorly ventilated areas. Ensure adequate ventilation around the equipment. Monitor for signs of fume buildup. 	LOW
Ergonomics					
Can anyone be injured due to: <ul style="list-style-type: none"> Poorly designed seating? Repetitive body movements? Constrained body posture or the need for excessive effort? Design deficiency causing physical or personal stress? Inadequate or poorly placed lighting? Lack of consideration given to human error or human behavior? Mismatch of the plant with human traits and natural limitations? Other factors? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<ul style="list-style-type: none"> Follow manufacturers' instructions. Obey all warning decals. Take regular breaks/rests. Exercise/stretch regularly. Do not operate beyond operators personal capabilities. Use suitably designed and secured loading/unloading procedures including crane, hoist, ramps other mechanical aids etc. Observe and use proper manual handling techniques Adjust work heights or use platforms where needed. Rotate tasks to reduce repetitive motion injuries. Design work layout to reduce awkward postures. 	LOW
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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Transportation

Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?

☒ Yes
☐ No

HIGH

☒ Elimination
☐ Substitution
☐ Isolation
☐ Engineering
☒ Administration
☐ PPE

- Follow manufacturers' instructions.
- Obey all warning decals.
- Secure unit using compliant tie-down methods (e.g., chains, ratchet straps).
- Follow NHVR load restraint guidelines.
- Inspect tie-downs and anchor points for wear or damage.
- Use ramps and trolleys with locking wheels during loading/unloading.
- Engage brakes or chocks when stationary.
- Check vehicle rating and compliance with load capacity.
- Do not travel with loose parts or accessories unsecured. Maintain equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to plant/vehicle.

LOW

Operational

Can anyone be injured by this equipment

☒ Yes
☐ No

MEDIUM

☐ Elimination
☐ Substitution
☐ Isolation
☒ Engineering
☒ Administration
☒ PPE

- Follow manufacturers' instructions.
- Obey all warning decals.
- Perform pre-start checks.
- Never leave equipment running unattended.
- Maintain exclusion zones during operation.
- Position and operate in well-ventilated area to prevent inhaling vapours or fumes
- Ensure gears, levers, switches etc. are engaged/disengaged

LOW

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

				<i>appropriately before starting/operating.</i> <ul style="list-style-type: none"> • <i>Ensure all guards and fixtures are in place.</i> • <i>Ensure appropriate PPEs are used (e.g. eye protection, hearing and footwear)</i> • <i>Ensure plant/vehicle is switched off before making any adjustments.</i> • <i>Ensure hold-to-run controls provided for machine are working properly.</i> 	
Other Hazards					
Can anyone be injured or suffer ill-health from exposure to: <ul style="list-style-type: none"> • Chemicals? • Toxic gases or vapors? • Fumes? • Dust? • Noise? • Vibration? • Radiation? • Other Factors? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<ul style="list-style-type: none"> • <i>Follow manufacturers' instructions.</i> • <i>Obey all warning decals.</i> • <i>Wear respiratory protection when working near dust.</i> • <i>Use hearing protection when noise levels exceed safe limits.</i> • <i>Conduct noise and vibration assessments as required.</i> • <i>Keep equipment well-maintained to minimise vibration.</i> • <i>Operate only in well-ventilated areas to reduce fume exposure.</i> • <i>Use SDS and follow chemical handling procedures if additives or cleaners are used.</i> • <i>Avoid long-term exposure to vibration by rotating tasks.</i> • <i>Maintain plant in good working order - report any malfunction or damage to Master Hire immediately and stop using plant where it is reasonable to foresee further risk to persons or damage to equipment.</i> 	LOW

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Further Comments:	A Specific Risk Assessment on site must been undertaken prior to plant operation?
	This equipment must only be driven/operated by competent persons and holders of the appropriate license
Checklist:	<input checked="" type="checkbox"/> <i>Manufacturers' manuals referenced</i> <input checked="" type="checkbox"/> <i>Copy kept in Master Hires' Risk Management File</i>

Hazard / Risk Matrix

Reference: Workplace Health and Safety Queensland - Risk Assessment - Supplement 2
 Risk Management Code of Practice 2007

Step 1 Determine Likelihood – What is the possibility of the event happening?

	Criteria	Description
Almost certain	Expected in most circumstances.	Event is a common problem
Likely	Will probably occur in most circumstances.	Event is known to have occurred at this site or it has happened
Possible	Might occur at some time	Event could occur at the site or I've heard of it happening
Unlikely	Could occur at some time	Event is not likely to occur at the site or I have not heard of it happening
Rare	May occur only in exceptional circumstances	Event is practically impossible.

Step 2 Determine Consequence - What will be the result if it happens?

Classification	Example detail description
Insignificant	No injuries
Minor	First aid treatment only; spillage contained at site.
Moderate	Medical treatment; spillage contained but with outside help.
Major	Extensive injuries; loss of production
Catastrophic	Death; toxic release of chemicals

Step 3 Determine the risk score

LIKELIHOOD	CONSEQUENCE				
	Insignificant	Minor	Moderate	Major	Catastrophic
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute
Rare	1 Low	1 Low	2 Medium	3 High	3 High

Step 4 Record risk score against the job sequence steps

(Note – Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

Score	Action
4 A: Acute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.
3 H: High	Highest management decision is required urgently.
2 M: Medium	Follow management instructions.
1 L: Low	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.