

OPENSORE

Risk Assessment 125KVA Generator



Hazards Requiring Attention:

0

AS AT

Wednesday, 11 February 2026

Next Review

Thursday, 11 February 2027

Total Hazards Recorded

18

Critical Risk Hazards

0

High Risk Hazards

0

Moderate Risk Hazards

4

Low Risk Hazards

14

Risk Matrix - Refer Procedure Risk Management

Probability	Low	Minor	Moderate	Major	Critical
Negligible	L2	L3	L4	M5	M6
Unlikely	L3	L4	M5	M6	H7
Possible	L4	M5	M6	H7	H8
Likely	M5	M6	H7	H8	E9
Almost Certain	M6	H7	H8	E9	E10

125KVA Generator

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Not understanding the specific hazard and control methods used	3	4	H7	Only trained, competent and authorised persons are allowed to operate the equipment. DO NOT operate the equipment if you are under the influence of drugs or alcohol. Read the risk assessment and ensure you understand the specific hazards. Read the operators manual. Fan & belts guarded.	2	2	L4
Operation	Entanglement	3	4	H7	DO NOT wear loose or torn clothing when operating completing maintenance of the generator. Beware of hand and finger placement. Sever injury can occur. When inspecting the equipment ensure the keys are removed from the ignition.	2	2	L4
Operation	Removal of Guards	4	4	H8	Complete daily plant inspection check for faults. Record any faults and report the issues to your supervisor. Complete the following check daily. 1. Lights – turn ignition key to the ON position and check for the warning lights and buzzer. Check operation of emergency lights. 2. Instruments – Check all instruments. 3. Check the fire extinguisher, spill kit and emergency kit are in good order. 4. Fuel – Check fuel gauge and tanks	3	1	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Slips and trips Tie down points	3	4	H7	All safety guards must be in place and in good condition. Beware of your surrounding when operating the generator. Replace any damaged or faded safety decals.	2	2	L4
Operation	Radiator high temperature water	3	5	H8	Do not remove radiator cap when engine is hot. Daily Pre start Checklist must be completed to identify any faults with the equipment before commencing work. Only trained, competent and authorised persons are allowed to complete maintenance on the equipment. All maintenance completed on the vehicle must be documented using the service history form.	2	2	L4
Operation	Electric shock from 12/24 Volt System on Machine Electrical shock from generator output	3	4	H7	Only trained, competent and authorised persons are allowed to perform maintenance on the vehicle. Before commencing maintenance on the equipment ensure the isolation process has been completed. Ensure all connection points/plugs are in a taskworthy condition Ensure equipment has earth stake installed Check all circuit breaker systems to ensure operation in accordance with Operation manual Only qualified and competent personnel to conduct repair work on electrical system	2	4	M6

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Re fuelling on site Fuel Tanks Storage Tanks	3	4	H7	No smoking while fuelling. Re fuel at a service station. Only use Australian Standard approved Tanks/ Containers to store fuel. Re-fuel when engine is cold preferred at work start. Use funnels or syphons hoses to fill fuel tanks. Store away from ignition source. Preferred transfer device 12 volt pump with trigger handle. Prestart operator Checks. Spill Kit. Re-fuel as per manual.	2	2	L4
Operation	Exhaust Pipe Motors Engine Hot or cold Day	3	3	M6	When inspecting the engine bay ensure the keys are in the inspectors pocket and isolation switch locked and the engine is cold. Check all hoses are within the protective sleeves are in good condition. <u>Refer to the operator's manual.</u>	1	1	L2
Operation	Exhaust Fumes	5	3	H8	Do not operate in confined space. Daily Pre start Checklist must be completed to identify any faults with the equipment before commencing work.	3	2	M5
Operation	Noise levels above 85dba when in operation when doors open	3	#####	#N/A	Hearing protection to be worn when equipment operating and personnel working in the vicinity If conducting work on equipment switch off and isolate unless engine required for repairs	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Poorly Trained operators Unfamiliar with operation of different Machine	4	4	H8	Verification of Competency (VOC's) must be completed. Only trained, competent, licensed and authorised persons are allowed to conduct repairs to equipment	3	1	L4
Operation	Shearing – between two parts of the plant, or between a part and a work piece or structure	3	4	H7	Be aware of fractured or broken drill rods. Inspect drill rods every 500 hrs	3	1	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Equipment Design	Design compliance - Manufacturers Instructions	4	4	H8	Read and understand all of the safety precautions and warnings before performing any repair. This list contains the general safety precautions that must be followed to provide personal safety. Special safety precautions are included in the procedures when they apply. Work in an area surrounding the generator that is dry, well lit, ventilated, and free from clutter, loose tools, parts, ignition sources and hazardous substances. Be aware of hazardous conditions that can exist. Always wear protective glasses and protective shoes when working. Rotating parts can cause cuts, mutilation or strangulation. Do not wear loose-fitting or torn clothing. Remove all jewellery when working. Disconnect the battery (negative [-] cable first) and discharge any capacitors before beginning any repair work. To reduce the possibility of personal injury, use a hoist or get assistance when lifting components. Make sure all lifting devices such as chains, hooks, or slings are in good condition and are of the correct capacity. Make sure hooks are positioned correctly. Always use a spreader bar when necessary	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Equipment Design	Design compliance - Manufacturers Instructions	4	4	H8	Corrosion inhibitor, a component of SCA and lubricating oil, contains alkali. Do not get the substance in eyes. Avoid prolonged or repeated contact with skin. Do not swallow internally. In case of contact, immediately wash skin with soap and water. In case of contact, immediately flood eyes with large amounts of water for a minimum of 15 minutes. IMMEDIATELY CALL A PHYSICIAN. KEEPOUT OF REACH OF CHILDREN Naphtha and Methyl Ethyl Ketone (MEK) are flammable materials and must be used with caution. Follow the manufacturer's instructions to provide complete safety when using these materials. KEEP OUT OF REACH OF CHILDREN. To reduce the possibility of burns, be alert for hot parts on products that have just been turned off, exhaust gas flow, and hot fluids in lines, tubes, and compartments. Always use tools that are in good condition. Make sure you understand how to use the tools before performing any service work. Use ONLY genuine replacement parts.	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Equipment Design	Design compliance - Manufacturers Instructions	4	4	H8	Always use the same fastener part number (or equivalent) when replacing fasteners. Do not use a fastener of lesser quality if replacements are necessary. Do not perform any repair when fatigued or after consuming alcohol or drugs that can impair your functioning. Used engine oil can be carcinogenic and can cause reproductive toxicity. Avoid inhalation of vapours, ingestion, and prolonged contact with used engine oil. Coolant is toxic. If not reused, dispose of in accordance with local environmental regulations. Beware of electrical points Do not conduct repairs to electrical system whilst equipment operating Ensure circuit breakers are in operation before connecting leads Diesel engine exhaust and some of its constituents are to cause cancer, birth defects, and other reproductive harm.	2	2	L4
Equipment Maintenance	Maintenance – operational malfunction	3	4	H7	Maintain service and maintenance records. Conduct regular inspections	3	1	L4
Transport	Transport - Crushing injury or body injury from working near plant or machinery	3	5	H8	Ensure correct machinery unloading process is followed and that it is undertaken by a competent person.	1	5	M6

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Transport	Transport - generator falling off transporter	3	5	H8	Inspect transporting lugs for wear and tear. Check chains are tight and dog secured whenever loading machinery onto transporter	1	5	M6