

Risk Assessment

Business Unit:

Location:

Unit:

Date:

Undertaken by:

Task/Process/Plant: Diesel Generator Operation

Likelihood	Consequence				
	1 - Negligible	2 - Minor	3 - Moderate	4 - Major	5 - Catastrophic
A - Almost Certain	Low	Moderate	High	Extreme	Extreme
B - Likely	Low	Low	Moderate	High	Extreme
C - Possible	Very Low	Low	Moderate	High	Extreme
D - Unlikely	Very Low	Low	Low	Moderate	Extreme
E - Rare	Very Low	Very Low	Very Low	Moderate	High

Risk Rating Table: - Risk Rating (RR) = Likelihood (L) x Consequence (C)

Hazard	Potential Incident	Uncontrolled Risk Score	Current Controls	Controlled Risk Score	Further controls recommended	Due Date
Electrocution	Persons or tooling coming into contact (either direct or indirect) with "Live" electrical componentry.	Extreme Major	Ensure all doors, covers & panels are fitted and secured before starting the generator. Do not open any doors, covers or panels while the generator is running, other than to access the control panel. Test the RCDs before use. If "hardwired" (not connected via plug & socket) the generator must be connected and tested by a licensed electrician	Low Minor	Only licenced, qualified and experienced electricians should work on these machines and this should only occur under direct supervision with the authority from the owner of the machine. If there is any doubt all work must desist an experienced, qualified professional contacted.	
Pinching, Crushing or Severe Laceration	Injury caused from coming into either direct or indirect contact with rotating components within machinery cabinet..	Extreme Major	Ensure guards are securely fitted over rotating parts. Ensure all doors, covers & panels are fitted and secured before starting the generator. Do not open any doors, covers or panels while the generator is running, other than to access the control panel. Refer to operator's manual for more information if required.	Low Minor	Ensure correct PPE is worn when working on diesel generators, be sure to avoid any loose fitting clothing or jewellery that may become entangled amongst moving parts. Where possible all work should be carried out whilst the unit is turned off and isolated. All work should only be carried out by a competent, qualified and licensed diesel mechanic.	

Hazard	Potential Incident	Uncontrolled Risk Score	Current Controls	Controlled Risk Score	Further controls recommended	Due Date
Potential For Severe Burns	Persons making contact either directly or indirectly may suffer from burns due to contact with hot & pressurized radiator coolant and/or hot engine & or exhaust components or fluids.	High Major	Ensure all doors, covers & panels are fitted and secured before starting the generator. Do not open any doors, covers or panels while the generator is running, other than to access the control panel. Keep away from the exhaust discharge. Refer to operator's manual for more information if required.	Low Minor	Only qualified, experienced, licenced and competent persons shall undertake work on the genset and only after a risk assessment relevant to the task at hand is undertaken.	
Respiratory aggravation	Possible respiratory aggravation from inhaling excessive exhaust fumes and/or dust.	Moderate	Only operate the generator in a well ventilated area. Refer to operator's manual for more information if required.	Low	All work should only be carried out by a competent, qualified and licensed diesel mechanic.	
Explosion and or burns as a result of incorrect refuelling procedures.	Fire/ burns/ explosion could result if the correct refuelling procedures are not followed	Moderate	No smoking or ignition sources. Ensure adequate ventilation. Refer to operator's manual for more information if required. Always ensure that the unit is turned off and allowed to cool before refuelling	Low	Only qualified, experienced, licenced and competent persons shall undertake work on the genset and only after a risk assessment relevant to the task at hand is undertaken.	
Person inhaling or coming into direct contact with diesel fuel	Persons becoming overcome with fumes from diesel fuel and or coming into direct contact with diesel fuel	Moderate	Users to read and understand diesel fuel MSDS. Always use appropriate PPE. Ensure adequate ventilation. Refer to operator's manual for more information if required.	Low Minor	All work should only be carried out by a competent, qualified and licensed diesel mechanic.	



When recommending corrective action always use the Hierarchy of Control:-

ELIMINATION - The primary objective for controlling risks is to remove the cause of the risks at the source - Is the plant, equipment, work process necessary to produce the required outcome?

SUBSTITUTION- Is there a less hazardous alternative to the process, substance etc that will eliminate or minimise the risk?

ISOLATION – Can the hazard be shielded or isolated from people e.g. enclose a noisy machine.

ENGINEERING CONTROLS - Can the hazard be controlled through modifications to design, machine guarding, ventilation etc?

ADMINISTRATIVE CONTROLS - Can the work activities and/or the work place in which the hazard exists be modified to minimise the risk? Can the hazard be controlled by the adoption of safe work practices, training, supervision etc?

PERSONAL PROTECTIVE EQUIPMENT - PPE should be considered as a last resort where other methods of control may prove ineffective or not feasible. It may be necessary to use PPE in the short term, when other control methods are under consideration or awaiting resources or to supplement control methods that do not fully eliminate risk. PPE may be the only practical means of control and therefore will be required on a long-term basis. In all circumstances, the use, care and maintenance of PPE should be in accordance with Australian Standards.