

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	Boiler and Turbine Cut Out Valves Refurbishment				Next Review Date (every 2 years):	Template identifier: 240-70044602	
Date: 21.02.2021	Authorised by:			Name: Moshe Mmowa	Document identifier		
				Designation: Outage Controller	Revision number:	1	
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				Date: 21.02.2021			
Refer to Occupational Health and Safety Risk assessment procedure 32-520							
List activity	Hazard Identification	Associated risk	Risk type	What are the possible consequences?	Existing Controls	Control Owner	Legal and Other Requirements
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	Anything with potential to cause of harm. Note: A hazard can pose more than one risk.	A chance that injury, ill health or damage could occur as a result of uncontrolled hazard.	Safety or health	Consider the worse case scenario without controls?	Include: - <u>Preventative Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - <u>Reactive Controls</u> (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.
Loading and off-loading of cut Out valves	Ash Dust	Employees may be exposed to ash dust from the nearing plants or during windy season	Health	Respiratory and lung infections and/or eye irritation	Provide the dust masks FFP2 & FFP3, hazard awareness and induction	Contractor/ client	OHS Act sec 13, Hazardous Chemical Substance Regulations, Annexure1,36
		Employees may be exposed to ash dust from the nearing plants or during windy season while driving around the station	Safety	Poor visibility , leading vehicle accidents, also pedestrian incident	Adhere to safe driving speed limits, hazard awareness and safety induction	Contractor/ client	OHS Act sec 13, Hazardous Chemical Substance Regulations, Annexure1,36
	Coal Dust	Employees may be exposed to coal dust from the nearing plants mainly coal plant	Health	Lung infection that could result with silicosis, eye infection, nasal infection, skin infection	Provide the dust masks FFP2 & FFP3 (mandatory sign posted)	Contractor/ client	OHS Act sec 13, Hazardous Chemical Substance Regulations, Annexure1,36

	Use of lifting equipment	Employees may be exposed to falling loads , struck by moving machinery	Safety	Fracture, injuries	fork lift to be operated only by Eskom appointed Contractor trained personnel, maintenance of the equipment, hazard awareness and communication during operation	Contractor/ client	OHS Act sec 13,Environmental Regulations in workplaces, Driven Machinery Regulations
	Hot work	Exposure to hot work activities in the workshop ,welding sparks , fire	Safety	Arc eye/eye injuries, Burn injuries	Drivers to keep safe distance from the hot work activities and wear appropriate PPE when entering the workshop. Work only done by competent personnel/ welders, Risk assessment, fire screens, PPE including welding helmets, respirators aprons, skullcaps, boots and fire resistant overalls amongst others.		OHSA s8(2)(b,c,d,e), OHSA s13, GSR 2, GSR 9, Eskom PSR ,Hot work permit system
		Exposure to work activities in the workshop, Inhalation of welding fumes	Health	Nasal irritation, Respiratory infection with flu like symptoms	Drivers to keep safe distance from the hot work activities and wear appropriate PPE including a respiratory when entering the workshop. Work only done by competent personnel/ welders, Risk assessment, fire screens, PPE including welding helmets, respirators aprons, skullcaps, boots and fire resistant overalls amongst others.	Client/ Contractor	OHSA s8(2)(b,c,d,e), OHSA s13, GSR 2, GSR 9, Eskom PSR ,Hot work permit system
	Emergencies	Exposure to life threatening situations, riots , strikes	Safety	Injuries , Fatalities	Hazard awareness and communication , Emergency preparedness procedures route risk assessment , security management	Contractor/ client	OHS Act sec 13, Access control procedures, National key point act
		Employees exposed to emergency situation, such as fire, medical emergency etc.	Safety	Injuries , Fatalities	Emergency preparedness plan, Communication (hazard awareness) , EPP safety training	Client/ Contractor	OHS Act s13,OHSA s8(2)(b,c,d,e,f), ERW ,Kendal EP Plan *1015702, SHE specification

	Manual handling	Lifting of heavy equipment by hands , falling loads, struck by incident	Safety	Back injuries, sprains and strains, soft-tissue injuries to wrists, arms, shoulders, neck or legs.	Mechanical lifting should be used, no lifting by hands should be done on heavy equipment. Hazard awareness. Only Eskom appointed contractor to carry out the task	Contractor/ client	OHS Act sec 13,Environmental Regulations in workplaces, Driven Machinery Regulations 18, Work instruction * 1029635, Ergonomics regulations 2019
Driving on site and offsite	Night time driving	Poor visibility, fatigue, poor road surfaces including potholes	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Medical fitness,Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training , fatigue management/ rest periods/ route risk assessment	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Weather conditions , Mist/Fog/heavy rain	Poor visibility and loss of control to the vehicle	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Medical fitness, Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training, wait up until the mist is clear. Use alternative routes, route risk assessment	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Road users, pedestrians and/or stray animals	Struck by, struck against incidents, Loss of control of the vehicles. Driver is negligent or not trained.	Safety	Collision that result in accidents with multiple injuries and/or fatalities.	Medical fitness, Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training ,route risk assessment	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Road conditions, potholes, curves, road construction, road works, bends, steep heels, rail crossings, wet roads	Loss of control of the vehicle. Not observant of the surroundings. Unfamiliar with the road. Speeding	Safety	Vehicle accidents which will result in multiple injuries and/or fatalities as well as property damage.	Adherence to road rules and signage on site and off site. Medical fitness, Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training. Pre inspections, Trip Risk Assessment	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.

Delivery and collection of valves	COVID 19	Contracting COVID. Contact with persons that may be infected with the virus	Health	psychological impact,COVID Illness, death	COVID Risk assessment. Social distancing when performing the activities, COVID 19 awareness and training hand hygiene, sanitizers, and Incident management procedures. Record keeping register for all visitors. PPE including appropriate masks, hand gloves.	Contractor/ client	OHS Act sec 8,13, Disaster Management Act, 2022 (Act No.57 of 2002), COVID 19 Regulations. Procedure 32-95
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