

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	maintenance services on electrical actuators and gearboxes during Outage periods and running units at Kendal Power Station from Unit 1 to Unit 6				Next Review Date (every 2 years):	Template identifier: 240-70044602	
Date:	22-Jun-23			Authorised by:			
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				Designation: C & I Units Manager		Revision number:	5
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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 applicable, add IRM system reference number for tracking of treatment actions. (applicable to risks that have an impact on business objectives or require intervention from Senior or Executive management such as implementing major engineering projects as a control)
Loading and Offloading of Electrical Actuators	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	Wearing of dust masks FFP2 & FFP3 is mandatory, hazard awareness and induction	Contractor/ client	OHSAct 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 with the window down	Safety	Poor visibility , leading vehicle accidents, also pedestrian incident	Adhere to safe driving speed limits, hazard awareness and safety induction, Windows to be closed should there be visible dust whilst driving.	Contractor/ client	OHSAct sec 13, Hazardous Chemical Substance Regulations, Annexure1,36
	Coal Dust	Employees may be exposed to coal dust from the nearing plants mainly terrace bin	Health	Lung infection that could result with silicosis, eye infection, nasal irritation, skin irritation	Wearing of dust masks FFP2 & FFP3 is mandatory, hazard awareness and induction	Contractor/ client	OHSAct sec 13, Hazardous Chemical Substance Regulations, Annexure1,36
	Moving machinery (forklift)	The operator might collide with material at stores or people	Safety	Damage to equipment, crushed by or caught between injuries.	Only competent operators are allowed to operate the fork lift, Supervision and risk assessment	Contractor/ client	OHSAct sec 13,Environmental Regulations in workplaces, Driven Machinery Regulations
	Use of lifting equipment (fork lifts)	Employees may be exposed to falling loads , struck by moving machinery	Safety	Fracture, injuries	fork lift to be operated only by Eskom trained personnel, maintenance of the equipment, hazard awareness and communication during operation	Contractor/ client	OHSAct sec 13,Environmental Regulations in workplaces, Driven Machinery Regulations
	Falling objects	Struck by	Safety	Fracture, injuries	Required PPE to be worn i.e hard hat, safety shoes. Risk assessment, Supervision.	Contractor/ client	OHSAct sec 13
	COVID 19	contracting the Corona Virus, infecting others if already infected.	Health	Infection, displaying flu-like symptoms and fever, death.	COVID 19 infection awareness, wearing of masks, Sanitising. Observing Covid 19 protocols	Contractor/ client	Disaster Management Act, 2002 (Act 57 of 2002)
	Pinch and nip points	Caught in between,	Safety	Injuries	Required PPE i.e gloves, Risk assessment, Supervision.	Contractor/ client	OHSAct sec 13
Manual handling	Lifting of heavy equipment by hands , falling loads	Safety	Back injuries, sprains and strains,soft-tissue injuries to wrists, arms, shoulders, neck or legs.	Mechanical lifting should be used if items are too heavy to lift/carry manually,Hazard awareness, employing correct handling techniques	Contractor/ client	OHSAct 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 would result in multiple injuries and/or fatalities as well as property damage.	Valid driver's licence, Medical fitness,Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns. Postponing trip until its safe to travel	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Unfavourable Weather conditions , Mist/Fog/heavy rain	Poor visibility and loss of control to the vehicle	Safety	Vehicle accidents which would result in multiple injuries and/or fatalities as well as property damage.	Valid driver's licence, Medical fitness,Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns. Postponing trip until its safe to travel	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.	Safety	Collision that result in accidents with multiple injuries and/or fatalities.	Valid driver's licence, Medical fitness,Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns. Postponing trip until its safe to travel	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.
	Poor Road conditions, potholes, curves, road construction, road works, bends, steep hills, rail crossings	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.	Valid driver's licence, Medical fitness,Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns. Postponing trip until its safe to travel	Contractor/ client	Road traffic act, OHS Act. Vehicle Safety 240-69946.
Stroking	Actuator / valves	contact with moving equipment , plant inoperation	safety	injuries, damage to equipment or plant	Eskom maintenance work instruction to be followed , pre task risk assessment, work performed by competent personnel Cleaning of plant. Communication (hazard awareness),Guarding/barriers/rails ,Training: General Safety,PPE, signage	Client/ Contractor	FFFR/ PSR, OHS act , Pressure Equipment Reg. Maintenance work instruction ?????
Walking to the plant Area	Wet or slippery floor conditions	slips and fall	safety	injury, contusion	Communication (hazard awareness),Guarding/barriers/rails ,Training: General Safety,PPE, signage	Client/ Contractor	OHSAct s8(2)(b,d,e,f), ERW 6,SANS 10400, GRS 2,procedure 32-136
Signal checking	Electricity	possible electrical contact	Safety	Electrical Shock, Fatality	Permit to work, Risk Assessment. Communication (hazard awareness),Training: General Safety. Signage and notices	Client/ Contractor	PSR 32-681 EIR (2-9), EMR (2-10),OHSAct s8(2)(b,d,e),procedure 32-136
Removing an Actuator on Steam line	Heat , hot surfaces	exposure to heat & hot surfaces in the plant	safety / health	Thermal Burns, injuries, heat stroke	Communication (hazard awareness),Guarding/barriers/rails , notices and signage, PPE . Consumption of liquid, job rotation, rest breaks	Client/ Contractor	OHS Act s13,ERW,GSR 2,OHSAct s8(2)(b,c,d,e),f, procedure 32-136
Faultfinding on actuators	High pressure systems	Exposure to high pressure systems e.g sooth blower and spray water system	safety	injuries, Fatalities	Mechanical Isolation, FFFR training, Risk assessment, hazards awareness	Client/ Contractor	FFFR/ PSR 36-681, OHS act , Pressure Equipment Reg
Accessing Actuators	Uneven surfaces, gratings,trenches	slip trip and fall, falling into the trench	Safety	Fracture, injuries, fatality	Plant maintenance,Communication (hazard awareness),Guarding/barriers/rails ,Training: General Safety,PPE, signage and notices	Client/ Contractor	OHS Act s13,OHSAct s8(2)(b,c,d,e,f),GMR 3, DMR 2,GSR 2 , procedure 32-136