

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	Kendal Power Station	SOW: Diesel generators Control system upgrade			Next Review Date (every 2 years):	Template identifier: 240-70044602	
Date:	Authorised by:			Name: Gugulethu Xhanti		Document identifier	
				Designation: Snr Advisor		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: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Reactive Controls (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)
Plant Inspections in the Switchgear Room	Ash Dust	Exposed to excessive: to Ash Dust	Health	Respiratory and lung infections and/or skin and eye irritation	Planned plant maintenance schedule, use of PPE, Fixing of defects, Toolbox Talks	Contractor	OHSAct, Regulations for HCS
	Coal Dust	Exposed to excessive to Coal Dust	Health	Respiratory and lung infections and/or skin and eye irritation	Planned plant maintenance schedule, use of PPE, Fixing of defects, Toolbox Talks	Contractor	OHSAct, Regulations for HCS
	Slippery Surfaces	Slip and fall	Safety	Falls that will result in injuries and fatalities	Floor slippery signs are posted in some of the plant areas. Some areas are barricaded.	Contractor	OHSAct
	Chemical vapours i.e. Sulphur, SO ₂ and SO ₃	Inhalation of chemical vapours coming from water treatment plant	Health	Respiratory ailments and skin irritation and corrosion	Notification of the Chemical potential exposure, work stoppage required if there is exposure	Contractor	OHSAct ,hcs
	Falling objects	Struck by objects	Safety	Struck by objects resulting in injuries and/or fatalities.	Being observant while on the plant. Barricade Area.	Contractor	OHSAct
	Cold weather	Working on cold weather	Health	Shivering, Frost bite, cold and flu and hypothermia.	Warm jackets and other warm clothing are issued to employees.	Contractor	OHSAct, ERW 2
	Dangerous Insects and Reptiles	bitten by the bees	Health	Bee stings and snake bites - Injuries and/or fatality	Fumigation is carried out. There are trained snake catchers on site. Awareness provided to employees. Report to EOD if dangerous reptiles are spotted, Emergency number is communicated to employees on site.	Contractor	OHSAct
	Insufficient lighting	knocking against structures due to poor visibility	Safety	Slips, trips and knocking against structures because of poor visibility that will result in injuries.	Repair and replace lighting. Special/Temporary lighting is provided.	Contractor	OHSAct
	Opening and Closing of Breakers	Release of pressure	Safety	Release of pressure resulting in injury/fatality or property damage.	Risk assessments, Wear appropriate rated arch flash PPE (Category 4).	Contractor	OHSAct
	Defective Lifts	Stuck in the lifts resulting in being trapped and suffocating because of insufficient ventilation.	Health	suffocating because of insufficient ventilation.	Lifts are on a planned maintenance.	Contractor	OHSAct
	Defective Lifts	Excessive walking on stairs because of inoperative lifts resulting in Musculoskeletal disorder; pain on ankles, calf muscles etc.	Health	Excessive walking on stairs because of inoperative lift resulting in Musculoskeletal disorder; pain on ankles, calf muscles etc.	Lifts are on a planned maintenance.	Contractor	OHS Act, Environmental Regulations in workplaces Reg 6
	Use of lifting equipment	Defective equipment which might result in falling of lifted equipment	Safety	Fall resulting in injuries and/or injuries.	Lifting equipment are on a planned maintenance.		
	Staircases	Tripping and fall resulting in injuries.	Safety	Tripping and fall resulting in injuries and/or injuries.	Hand rails along the stairs. Toolbox talks are held. Sharing of lessons learned on incidents that occurred in other business units in Eskom.	Contractor	OHS Act, Environmental Regulations in workplaces Reg 6
	Criminal Activity	Attack by criminals that could result in injuries and/or fatalities.	Safety	Attack by criminals that could result in injuries and/or fatalities.	Being vigilant while at the cable tunnel. Security assist with the patrol of plant areas.	Contractor	OHS Act
Driving, Transport Employees to and from Site.	Road conditions : curves, road construction, road works, bends, steep heels, rail crossings	Unfavourable road conditions , curves, road construction, road works, bends, steep heels, rail crossings causing loss of control of the vehicle	Safety	Loss of control to the vehicle. Not observant of the surroundings. Unfamiliar with the road. Speeding	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	Road traffic act, OHS Act, Vehicle Safety 240- 69946, LSR
	Weather conditions , Mist/Fog/heavy rain	Unfavourable weather conditions due to Mist/Fog/heavy rain	Safety	Poor visibility and loss of control to the vehicle	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.	Contractor	Road traffic act, OHS Act, Vehicle Safety 240- 69946, LSR
	Road users, pedestrians and/or stray animals	Unfit road users , vehicles Colliding with pedestrians and/or stray animals	Safety	Loss of control to the vehicles. Driver is negligent or not trained.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Driver risk evaluation/Defensive & advance driving training	Contractor	Road traffic act, OHS Act, Vehicle Safety 240- 69946, LSR
	Driving vehicle while tired	Fatigue	Safety	Loss of control to the vehicle due to fatigue.	Awareness during SHEQ meetings/ tool box talks/ lessons learned/ road safety campaigns/ Defensive & advance driving training	Contractor	Road traffic act, OHS Act, Vehicle Safety 240- 69946, LSR
Decommissioning Old System.	Ash Dust	Respiratory and lung infections and/or skin and eye irritation	Health	Respiratory and lung infections and/or skin and eye irritation	Planned plant maintenance schedule, use of PPE, Fixing of defects, Toolbox Talks	Contractor	OHSAct, Regulations for HCS
	Coal Dust	Respiratory and lung infections and/or skin and eye irritation	Health	Respiratory and lung infections and/or skin and eye irritation	Planned plant maintenance schedule, use of PPE, Fixing of defects, Toolbox Talks	Contractor	OHSAct, Regulations for HCS
	Live Plant	electrocution, shocks, burns	Safety	Electrocution that will result in burns	Testing before Touch principle, Isolation Permit to be in place, Signs of Live plant display.	Contractor	OHS Act.
Installation and Commissioning of the New System.	Ash Dust	Respiratory and lung infections and/or skin and eye irritation	Health	Respiratory and lung infections and/or skin and eye irritation	Planned plant maintenance schedule, use of PPE, Fixing of defects, Toolbox Talks	Contractor	OHSAct, Regulations for HCS
	Coal Dust	Respiratory and lung infections and/or skin and eye irritation	Health	Respiratory and lung infections and/or skin and eye irritation	Planned plant maintenance schedule, use of PPE, Fixing of defects, Toolbox Talks	Contractor	OHSAct, Regulations for HCS
	Live Plant	electrocution, shocks, burns	Safety	Electrocution that will result in burns	Testing before Touch principle, Isolation or Plant alive Permit, Signs of Live plant display.	Contractor	OHS Act.
Inspection and Installation work on site	Covid-19	coming into contact with affected personnel, contracting the virus	Health	Presenting with covid-19 symptoms, testing positive	Self-screening prior to coming to work is encouraged, report sick if not feeling well, testing for covid, maintaining social distancing when on site and at work, wearing of 3-layered mask s mandated.	Contractor	OHSAct, Regulations for HCS

R	Safety	1	A	Fully effective	I
N	Health	2	B	Mostly effective	II
		3	C	Mostly ineffective	III
		5	E		
		6			

