

Project Base Risk Assessment for Ash and Emergency Dump Cleaning

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	Kendal Power Station		SOW: Ash Dump and E Dump Cleaning			Next Review Date (every 2 years):	Template identifier: 240-70044602
Date:	12-Oct-21		Authorised by:		Name: Simphiwe Mazibuko	Document identifier	
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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 relevant, list the relevant legislative and or Eskom requirements that prescribe the control.
Entering Kendal site	Stray animals, pedestrians, Negligent and reckless driving, failure to observe road safety rules, drive under the influence of alcohol drugs, Covid19	Failure to observe road safety rules could lead to Motor vehicle accident which will result in severe injuries, lung diseases and fatalities	Safety	Severe injuries, lung diseases and fatalities	Ensure Medical fitness, Awareness/ tool box talks, provide competent driver or machinery operator, allow rest periods, conduct route risk assessment, provide road worthy vehicle, Provide daily inspection and maintenance records, Adherence to Covid19 Requirements on vehicles	Site Manager/Site Supervisor	Road traffic act, OHS Act, Vehicle Safety 240-69946., National Disaster Management Act
	Covid19	Exposure or coming into contact with infected person, failing to adhere to Covid 19 regulation, may result in lung disease or death	Health	Lung diseases or fatality	Adherence to covid 19 regulation including, the provision of Policy statement on covid19, Risk Assessment for Covid19, Appointment of Covid19 Compliance Officer, provide PPE (cloth face masks), maintain social distancing, provide sanitizers,	Site Manager/Site Supervisor	OHS Act, National Disaster Management act & government gazette
Supply and Monitor	Ash heaps, uneven and slippery surfaces	Slips, trips and falls	Safety	Injury to personnel i.e fractures, soft tissue injuries	Housekeeping regime to be adhered to, Warning signs posted for slippery and uneven surfaces, awareness through tool box talks, Defect system for reporting water leaks resulting in slippery areas.	Site Manager/Site Supervisor	OHS Act sec 13, Environmental Regulations in workplaces Reg 6
	Noise	Exposure to noise for 8hrs above permissible level of 85dBA.	Health	Noise Induced Hearing Loss	Provision of PPE (Ear Plugs, medical screening) and area is demarcated as a noise zone	Site Manager/Site Supervisor	OHS Act, PSR, Noise-Induced Hearing Loss Regulation
	Fugitive Ash dust	Exposure to and Inhalation of fine ash dust	Health	Respiratory system infection and disorders. Eye and skin irritation	PPE requirements to be adhered to e.g. dust masks, goggles and appropriate overalls, defect leaks immediately when identified, Hazloc compliance	Site Manager/Site Supervisor	OHS Act s13, OHSAS 8(2)(b,c,d,e), GSR 2, procedure 32-136
		Poor visibility caused by presence of dust may lead to bumping into equipment and trips and falls	Safety	Injury to personnel i.e fractures, soft tissue injuries	Defect system in place for reporting water leaks that might affect dust suppression, no work permitted under unsafe conditions. Sprinklers in service continuously, water cannons in service only during the day, monitoring dust fallout exceeded using dust bucket as part of the AEL and X4 water tankers suppressing dust throughout.	Site Manager/Site Supervisor	
	Inadequate or poor lighting	Slips, trips and knocking against structures because of poor visibility	Safety	Headaches, eye strain, fatigue, discomfort, stress and injuries	There is a planned maintenance system for lights, Defect system in place to report defective lights, Artificial lighting is required when working at night and in dark spaces. PPE requirements to be adhered to	Site Manager/Site Supervisor	OHS Act, Environmental Regulation for workplace S3
	Moving machinery/equipment	Exposure to Unguarded rotating parts, entanglement and/or caught between moving parts	Safety	Entanglement, fracture injuries, loss of limbs and/or Fatality	Machine guards on equipment. Warning signs are posted. Loose clothing is discouraged while on the plant. Wearing of the correct PPE. Permit to work system, PSR.	Site Manager/Site Supervisor	OHS Act, General Safety Regulation S5
	Electrically energised plant equipment	Exposure to Live electrical plant, electrical cables	Safety	Electrocution, arcing, burns explosion, toxic gases, fire,	COC available for electrical plant, Warning signs posted, Adherence to life saving- Test before touch, PTW system PPE requirements adhered to (i.e. Flash suits), Only insulated tools permitted	Site Manager/Site Supervisor	Life saving rules. OHS Act, PSR
	Working at slopy areas	Slips and Falling due to uneven surfaces	Safety	Bruises, Fractures and/or Fatality	Be your brother's keeper, pre-task risk assessment, supervision, tool box talks, hazard awareness and PPE requirements adhered to.	Site Manager/Site Supervisor	OHS Act sec 13, Environmental Regulations in workplaces Reg 6
	Manual Handling	Manual lifting of heavy equipment or chemical bags/drums	Safety	Back injuries, sprains and strains, soft-tissue injuries to wrists, arms, shoulders, neck or legs.	Ergonomics standard, hazard awareness and training on safe lifting techniques, Risk assessment, Supervision	Site Manager/Site Supervisor	OHS Act, Construction Regulation, General Safety Regulation S12, ergonomics Regulation
	Construction Vehicle/Mobile Plant Operation (Bobcats)	Incompetent Person operating can cause injuries and property damage	Safety	Collision that result in accidents with multiple injuries and/or fatalities.	Competency for bobcat operators and truck drivers. project manager Road traffic act, OHS Act. Driven Machinery Regulation	Site Manager/Supervisor	Road traffic act, OHS Act. Driven Machinery Regulation
	Use of Hand tools	Struck by or pinched by handtools	Safety	Hand injuries, laceration, pinched injuries	Use correct tool for the job, inspections and maintenance, pre-task risk assessment, supervision, tool box talks, hazard awareness, good housekeeping, PPE including gloves	Site Manager/Site Supervisor	OHS Act, General Safety Regulation 8,
	Hazardous Chemical Handling	Exposure/Chemical contact, Fumes/gases inhalation, Chemical spillages	Safety, Health and environment	Injuries, Burns, Fatality and Environmental contravention	Trained and authorised personnel to handle Hazardous Chemical Substances, inspection of chemical containers/bags, 16 point MSDS readily available, Appropriate Proper PPE, Risk assessment and communication, Supervision barriers/ barricading, signage and notices.	Site Manager/Site Supervisor	HCSR (2-15), OHSAS 8(2)(b,c,d,e), OHSAS 13,
	Walking on staircases	Tripping, slipping and falling over	Health	minor to serious injuries i.e. cuts, bruises, twisting of ankle/knees/hands and fractures	Use of lifts that are available, three-point contact rule is applied, running up and down stairs is prohibited. Warning signs posted, hazard awareness. Provide appropriate PPE	Site Manager/Supervisor	OHS Act, Environmental Regulation of workplace S9(d)
	Heat	Exposure to hot environment that may result in discomfort	Safety and Health	Dehydration, heat stroke, Fatality	Appropriate PPE requirements adhered to Staff rotation or regular water breaks for employees is employed. Hazard awareness and risk assessment.	Site Manager/Site Supervisor	OHS Act, Environmental Regulation for workplace S2
Covid19	Coming into contact with an infected person, not adhering to Covid19 Requirements	Health	Lung diseases / fatalities	Adherence to covid 19 regulation including, the provision of Policy statement on covid19, Risk Assessment for Covid19, Appointment of Covid19 Compliance Officer, provide PPE (cloth face masks), maintain social distancing, provide sanitizers,	Site Manager/Site Supervisor	OHS Act, National Disaster Management act & government gazette	