

# Emergency Dump Extension Project

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	Kendal Power Station (Ash Dump)		Scope Of Work: (Emergency Dump Extension)			Next Review Date (every 2 years):	Template identifier:
Date: 25-Jan-22			<b>Authorised by</b> Name: Nelisiwe Nhlapo Designation: Senior Adv. Project Management  Sign Date: 25/01/2022	Name: Nelisiwe Nhlapo Document identifier			
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				 Revision date: 31-May-24			
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. <b>Note:</b> 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: - <b>Preventative Controls</b> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - <b>Reactive Controls</b> (controls implemented to reduce the immediate impact of the risk occurring)	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.
<b>Performing construction activities and plant work at Ash Dump</b>	Ash Dust	Inhalation of excessive ash dust and coming in to contact with ash a result of not wearing full PPE including respiratory, safety goggles and overalls	Health	Respiratory infections and/or eye/ skin irritation	Provide dust masks (FFP2/FFP3) to employees working at ash plant. Dust suppression with water from the clean and dirty water dam to reduce the level of ash dust on the plant. Conduct risk assessment, awareness/toolbox talk/Induction	Contractor Manager/Supervisor	OHSAct, Hazardous Chemical Substance Regulation Annexure 1 S36
	Moving machinery	Coming into contact with moving machinery, walking too close to machines and plant while wearing loose clothing, hair and belt, jeweler could lead to serious incidents.	Safety	Caught between, Run over, entangled, stuck in and bump against moving machinery could result in fatal injuries	Correct use of PPE, awareness/toolbox talk/induction, safety signs are posted. Induction conducted. Machine guarding in place. Inspections are carried out. Provide barricade for temporary closer to prohibit movements, Provide banks man to control moving of machinery.	Contractor Manager/Supervisor	OHSAct, General Safety Regulation S5
	Noise	Exposure to high level of noise as a result of incorrect use of hearing protection devices.	Health	Noise induced hearing loss	Correct hearing protection which include custom made type are provided to employees working at the ash plant. Medical surveillance is carried out to screen employees accordingly.	Contractor Manager/Supervisor	OHSAct, Noise Induced Hearing loss Regulation S7
	Dangerous insects and reptiles	Presence of snakes and reptiles at the ash disposal dam as a result of presence of tall grass and natural vegetation and poor house keeping.	Safety	Bites and stings by either snakes and/or insects that will lead to injuries, unconsciousness, eye diseases and/or fatalities.	Ensure the grass is short, hazard awareness, Evacuation procedure, emergency preparedness, Vegetation control, provide PPE.	Contractor Manager/Supervisor	OHSAct, National Environmental Management Act , Biodiversity Act
	Live electrical plant	Coming into contact with electrical components due to failure to follow life saving rules could lead to electric shock. Not wearing proper PPE Arc flash suit,	Safety	Electrocution that could result in injuries and/or fatality.	Permit To Work system, wearing of PPE (Arc Flash suits) Observe life saving rules, insulated tools, insulated rubber mats and gloves. Awareness/Toolbox talk/Induction. Conduct Risk assessment, provide planned job observations.	Contractor Manager/Supervisor	OHSAct; Eskom's Plant Safety Regulations,Eskom's Life Saving Rules.
	Elevated heights	Exposure to working at heights could result in falling from heights, failure to adhere to fall protection plan, not wearing safety harness/fall arrest equipment, failure to have a rescue plan in place and failure to conduct a risk assessment, working on unsecured scaffolding platform	Safety	Fracture, multiple injuries and fatalities.	Working at a platform. PTW system. Wearing of PPE. Apply Eskom life saving rules, pre job briefs, Training is provided. Provide Fall protection plan developer, risk assessment, fall arrest equipment, rescue plan and rescue technician. Scaffolding inspector. Provide safe working procedure, planned job observations.	Contractor Manager/Supervisor	OHS Act, General Safety Regulation S6
<b>Excavation Activities</b>	Biological agents (COVID 19)	Exposure to person infected by COVID19, not observing social distancing, failure to maintain personal hygiene	Health	Infection to COVID19 could result to lung infection diseases or severe case/fatality	Observe COVID19 Regulations i.e. provide PPE (Face masks), Compliance officer for Covid, Screening, Sanitizers, Awareness/toolbox talk on maintaining social distancing, not allowing more than 50 personnel per shift, split people to allow shifts, Provide Covid19 Compliance officer, Conduct Risk Assessment	Contractor Manager/Supervisor	OHS Act, COVID19 Government Regulation
	Driven machinery	Collapsing of walls which may result in machinery capsizing	Safety	Injury and/or fatality	Competent operator, equipment maintenance record , Risk assessment, equipment inspection sheet, toolbox talk, three way communication (Radio), Correct PPE, Life saving rule, maintain safety operating distance, flag man	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S13
	Slip and fall into the pit of the excavation	Tripping and fall resulting in injuries and possible fatality.	Safety	Tripping and fall resulting in injuries and/or injuries.	Toolbox talks (Awareness) are held. Barricading the manhole, warning signs, PPE,	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S13
	Dust	Respiratory and Inhalation lungs infections due to exposure to dust. Infections and irritation of the eye	Health	Lung infection that could result with silicosis, eye infection, nasal infection, skin infection	Provision of sprinkling truck to suppress the dust, Provide dust mask FFP2/FFP3. Awareness (toolbox talk), put up warning signs	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S13
	Noise	Noise induced hearing loss	Health	Noise induced hearing loss	Custom made as well as disposable hearing protections are provided.	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S13
<b>Temporary Works</b>	Vibrations	Musculoskeletal disorder : Muscle sprains and strains resulting in back, knee, and ankle pains.	Health	Musculoskeletal disorder : Muscle sprains and strains resulting in back, knee, and ankle pains.	Ergonomics awareness, Applying the STAR principle, Task observations	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S13, Ergonomics Regulation
	Unstable structure	Collapsing of temporary works structures or scaffolding platforms	Safety	Severe Injuries and fatalities	Competent designer to ensure compliance regarding temporary works, Scaffolding inspector, Risk assessment to be conducted. Appropriate PPE to be issued, Permit to work or authorisation to be obtained,	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S12
	Erecting and dismantling	Failure to wear gloves could cause cut from sharp object or struck by object	Safety	Severe injuries	Induction and risk assessment to be conducted before commencing work, awareness and toolbox talk to be held daily, appropriate ppe to be issued, safe working procedure to be shared,	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S12
<b>Manual handling</b>	using incorrect techniques to manual lift or handling material could cause Muscle sprains and strains	Health	Musculoskeletal disorder : Muscle sprains and strains resulting in back, knee, and ankle pains.	Induction and risk assessment to be conducted before commencing work, awareness and toolbox talk to be held daily, appropriate ppe to be issued, safe working procedure to be shared,	Contractor Site Manager/Supervisor	OHS Act, Construction Regulation, General Safety Regulation S12, ergonomics Regulation	