

Risk Assessment Supply and Delivery of MCW Nitrogen Protection Filling

Occupational Health and Safety Baseline risk assessment template							
Business/Operating unit:	Kendal Power Station	SOW: Supply and delivery of MCW Nitrogen protection filling on an “as and when” required basis			Next Review Date (every 2 years):	Template identifier: 240-70044602	
Date:	11-Jul-22	Authorised by:	Name: Tebogo Mojela			Document identifier	
			Designation: Outage Controller/ Project manager			Revision number:	1
			Signed: 			Revision date:	31-May-24
			Date: 19.07.2022				
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.
Nitrogen Delivery	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 terrace bin	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
	high level of N2 gas	Employees may be exposed to leaking N2 during filling due to leaking pipes	Health	dizziness, lightheaded, and loss of consciousness.	properly tighten connections and ensure pipework is in good condition	Contractor/ client	OHS Act sec 13, Hazardous Chemical Substance Regulations, Annexure1,36
	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.	proper lifting methods should be used. Hazard awareness	Contractor/ client	OHS Act sec 13,Environmental Regulations in workplaces, Driven Machinery Regulations 18, Work instruction * 1029635, Ergonomics regulations 2019
	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, Social distancing, provide sanitizers, provide cloth face masks, Covid compliance officer, provide Covid19 risk assessment, policy and procedure	Contractor/ client	OHS Act, Disaster Management act & government gazette
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 fitnesss,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 fitnesss,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 fitnesss, 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	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.	Medical fitnesss, 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.