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	Occupational Health and Safety Baseline risk assessment Komati Power Station-Industrial Cleaning								l	Next Review Date	Template identifier:
Business/Operating unit:										(every 2 years):	,
Date:	2023/03/23			Authorised by:			Malesela	Nyamane	Document identifier		
						Designation:SnrAdvisor OHS			Revision number:	5	
		Pofor to	Occupat	ional Health and Safety Pi	sk assessment procedure 32-520		Signed:MN			Revision date:	30-Apr-25
List activity	Hazard Identification	Associated risk	Risk type	What are the possible consequences?	Existing Controls		Bu			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	Consequence	Likelihood	Risk Priority Rating	RCE Risk Control Effectivenes s	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.
Commuting to and from work(Daily) -Routine Activity	Vehicle usage on public Road (face with poor road conditions; trucks)	Possibility for involving in motor vehicle accident with third party	Safety	Fatal injuries	Awareness of the hazard; Competent operators with clean bill of health to operate Employer vehicle; strict application and conformance to Fatigue management procedure; Vehicle Safety Procedure; Only road worthy vehicle to be utilised; Vehicle maintenance program in place; Pre and post trip vehicle inspection	6	С	ı	Mostly effective	Employer or Site Manager	Occupational Health and Safety Act; General Administrative Reguation; Compensation for Occupational injuries and Disease Act, National Road Traffic Act; Administrative Adjudication of Road Act, Inquest Act;Road Accident Fund Act;ISO 45001:2018
				Serious injuries (Broken limbs or damaged spinal cord)		4	С	п	Mostly effective		
	Exposure to hazardous chemical Agents (Diesel fumes/Petrol)	Possible inhalation of fuel fumes while conducting inspection particularly within confine space such close garage	Health	Possible Lung Cancer	Awareness and Training; Vehicles to be inspected in the open space to allow natural air flow to dilute particulates; Vehicle maintenance programs to be adhered to	4	С	П	Fully effective	Site manager or Supervisor	Ocupational Health and Safety Act, General Administrative Reguation; Compensatio in for Ocupational injuries and Disease Act, National Road Traffic Act, Hardinal Road Traffic Act, Inquest Act, Road Accident Fund Act, SIO Society Regulation, Agents Regulation, Hazardous Chemical Agents Regulation.
Physical Vehicle inspection - Routine Activity	Rolling over of the vehicle while conducting inspection		Safety	Could result in fatal injuries	Awareness and training: Competent driver - ; wheel movement choke block usage; Road worthy vehicles	5	В	II	Fully effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Reguation; Compensatio n for Occupational injuries and Disease Act, National Road Traffic Act; Administrative Adjudication of Road Act; Inquest Act;Road Accident Fund Act;ISO 45001:2018
				serious injuries (Fractures)		3	С	II	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Regualtion; Compensatio n for Ocupational injuries and Disease Act, National Road Traffic Act; Administrative Adjudication of Road Act; Inquest Act; Road Accident Fund Act; ISO 45001:2018
		Possibility of either involving in		Fatal injuries	Awareness of the hazard; Competent operators with clean bill of health to operate Employer vehicle; strict application and conformance to Fatigue management procedure; Vehicle Safety Procedure; Only road worthy vehicle to be utilised; Vehicle maintenance program in place; Pre and post trip vehicle inspection procedure; No Employer vehicle is allowed to operate in unfavourable	5	С	П	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Regualition;Compensatio n for Ocupational injuries and Disease Act,National Road Traffic Act; Administrative Adjudication of Road Act, Alguest Act;Road Accident Fund Act;ISO 45001:2018
Driving in unfavourable weather conditions (Wet, Mist/flog/heavy rain)-Non Routine activities (depending on season of the year)	Vehicle usage on poor road conditions	lone accident or with other vehicles		Injuries (amputations or disabling injuries)		4	С	П	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Reguation; Compensatio n for Occupational injuries and Disease Act, National Road Traffic Act; Administrative Adjudication of Road Act; Inquest Act;Road Accident Fund Act;ISO 45001:2018
		Knocking down pedestrian(s)		Fatal Injuries	conditions (Heavy rain/misty/fog conditions)	5	В	П	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Regualtion; Compensatio in for Occupational injuries and Disease Act, National Road Traffic Act; Administrative Adjudication of Road Act; Inquest Act;Road Accident Fund Act;ISO 45001:2018
		possibly exposed to viruses		Fatality	Awareness and training; Prophylaxis (Vaccination); Personal Hygiene-washing hands or sanitising; avoiding large number	5	В	Ш	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Regualtion; Compensatio n for Occupational injuries and Disease
	Poor Indoor air quality due number of personal in	(SARS-COV-2)	Health	COVID-19	meetings; wearing of respirator(s); Wellness program. Make use either of	3	С	II	Mostly effective	Site manager or Supervisor	Act, Hazrdous Biological Agents Regulation;

office/meeting space with possible exposure to biological			Psychological impact	Mechanical ventilation (HVAC System) or natural ventilation(Opening of windows	3	С	II	Mostly effective	Site manager or Supervisor	Employment and Labour Code of Practice: Managing COVID-19
agent			Long term COVID-19	and doors); Combination of Air- conditioning system and natural	3	С	ш	Mostly effective	Site manager or Supervisor	virus at workplace; ISO 45001:2018; Environmetal
	Possibly exposed to Tuberculosis bacterium	Health	Tuberculosis (TB)	ventilation; Limitation to meeting time frame (as short as possible)	3	С	=	Mostly effective	Site manager or Supervisor	Regulations for Workplace ;Facilities Regulation;ASHRAE guidelines,

	Poor illumination level	Exposed to proof lighting level	Health	Eye strains or myopia	Awareness of the hazard; Lighting maintenance in place; Defect system for out of service conditions	4	С	II	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulationss; COID Act; ISO 45001:2018;Environmne tal Regulation for Workplace; SANS 10400 A; SANS 10114
Conducting meetings, including morning briefs of any sort of meeting-Routine onsite		Poor Indoor Air Quality due to Legionella in the Ventilation or Air conditioning system	Health		Awareness and training in respect to the hazard; Make use either of Mechanical ventilation (HVAC System) or natural ventilation(Opening of windows and	3	С	п	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Regular Occupational injuries and Desase Act; ISO 45001/2018; ISO 45001/2018; Environmental Regulations for Workplace : Hazardous Biological Agents Regulation. ASHRAE guidelines,
	Poor Indoor Air quality	Exposure to indoor air contaminants such VOC's	Health	Irritation to chronic obstructive pulmonary diseases	doors); Combination of Air-conditioning system and natural ventilation; Limitation to meeting time frame (as short as possible)	3	С	п	Mostly effective	Site manager or Supervisor	Ocuupational Health and Safety Act; General Administrative Reguation; Compensation for Occupational injuries and Disease Act, Islo 45001:2018; Environmetal Regulations for Workplace; Facilities Regulation; ASHRAE guidelines,
		Possible Ergonomics risks due to work space setting with bad posture	Health	Musculoskeletal impact- muscle strains	Awareness and training about the risk;	3	С	п	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General
	Exposed to ergonomics risk - Working space not	Possible prolong standing	Health	Cardiovascular health related conditions	Correct posture to maintain while seating and standing; Ergonomically designed	4	С	II	Mostly effective	Site manager or Supervisor	Administrative Regulationss;COID Act; ISO
	Ergonomically designed	Exposure to Occupational stress either due to workload, ventilation, lighting, indoor air quality	Health	Ergonomics related stress	chairs, workspace design to be ergonomically friendly; Prohibition on long standing	2	С	Ш	Mostly effective	Site manager or Supervisor	45001:2018;Environmne tal Regulation for Workplace; SANS 10400 A; SANS 10114
	Cleaning, Sweeping and dusting arountid the pelant pasy pist to dust, including respirable crystalline silica, Ergonomics risks, Noise, slipd and trips	possible exposure to noise	Health	Noise induced hearing loss; Tinnitus;	Training and awareness, Provision of hearing protection devices,	4	С	П	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulation; Compensatio n for Occupational Injuries and Disease Act; Facilities Regulations; SANS 1186;Noise Induced hearing loss regulation, SANS 10083-2021
		High possibility of exposing to dust	Health	Chronic obstructive pulmonary related illnesses	Training and awareness, Provision of respiratory protective devices, Wet sweeping	4	С	п	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act, General Administrative Regulation Compensation in for Occupational Injuries and Disease Act, Facilities Regulation SANS 11 85-18-acrous chemical agents Regulation Environmental Regulations for Workplace Regulations
		Ergonomics-Awkward positioning of the body either overreaching when reaching for equipment in the vehicle	Health	Musculoskeletal issues (Back muscle strain)	Ergonomic training and awareness; Usage buddy system when offloading equipment	3	С	п	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act, General Administrative Regulation;Compensatio n for Occupational Injuries and Disease Act;Ergonomics Regulationss; Facilities Regulations; SANS 1186
		Uneven surface leading to trip and fall	Safety	Muscle strains(ankle or wrist)	Wearing of anti-static safety boots; Application of STAR principles in all activities; Maintenance contract to fix common facilities such as potholes, Training and awareness about the hazard; Signage to indicate possible hazards	3	С	П	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulation; Compensatio n for Occupational Injuries and Disease Act; Ergonomics Regulationss; Facilities Regulations; SANS 1186
		wet/muddy surface leading slip and fall	Safety	Muscle strains(ankle or wrist)	Wearing of anti-static safety boots; Application of STAR principles in all activities; Maintenance contract to fix common facilities such as potholes, Training and awareness about the hazard; Signage to indicate possible hazards	3	С	Ш	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulation; Compensatio n for Occupational Injuries and Disease Act; Ergonomics Regulationss; ISO 45001:2018; Facilities Regs; SANS 1186
	Contact with electrical	Possible exposure to electricity	Safety	Electrocution-Fatal injuries	Training and Awareness; Usage of	5	С	п	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulation; Compensatio n for Occupational
	connections	r ussible exposure to electricity	Safety	Third degree burns (Electrical or thermal)	Competent Technicians; Eskom Permit to be enforced at all times	4	С	П	Mostly effective	Site manager or Supervisor	Injuries and Disease Act; Electrical nstallation Regulations,Inquest Act;
			Health	Electrical shock(Heart		3	С	П	Mostly	Site manager or Supervisor	Eskom Plant Safety Regulation; Inquest Act
			Health	problems) Frost bite	Conducting dam cleaning during summer, awareness of the hazard, work rest regime during work, Encourage intake of warm liquids, Usage of waterproof and	3	С	II	Mostly effective	Managing director	Occupational Health and Safety Act; , General Administrative Regulation; COID Act; ISO 45001:2018; Environmental
		Expsoure to cold water	Health	Hypothermia		3	С	Ш	Mostly effective	and Site Manger	Regulations for Workplaces, Facilities
Industrial Cleaning -Routine Maintenance and non-Routine Servicing			Health	Chilblains	- insulated	3	С	II	Mostly effective		Regulation; SANS 1186, Diving Regulations
		Working on or near water body (Dam)	Safety	Drowning (Fatality)		5	С	П	Mostly effective	Site manager or Supervisor	

	Working next to water body	Exposed to cold water	Health	Cold related stress	Training on the risks, designated supervisor to perform rescue tasks, Use of Life Buoy, Boat hook, life line, life jackets audible alarm, training on swimming, Conducting dam cleaning during summer, awareness of the hazard, work rest regime during work, Encourage intake of warm liquids, Usage of waterproof and insulated	3	С	11	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act, General Administrative Regulation; COID Act;1SO 45001;2018; Environmental Regulation; SANS 1186, Diving Regulation; Hazardous Chemical Regulation
		Possible skin contact with hydrocarbons in the water	Health	Contact skin dermatitis		3	С	=	Mostly effective	Site manager or Supervisor	
			Safety	Fatal Injuries	Training of the risk of working at height;	5	С	=	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; , General Administrative Regulation; Compensat ion for Occupational Injuries and Disease
	Probability of falling into water	possible risk of falling into water	Safety	Injuries-broken limbs	Fall Protection plan and fall protection devices; usage of A-frame ladder and inspection checklist	3	С	=	Mostly effective	Site manager or Supervisor	Act;ISO 45001:2018; Environmental Regulations for Workplaces, Facilities Regulation; SANS 1186, Diving Regulations,
	or overreaching while sweeping or dusting will sweeping or dusting taken and extending standing time Possible hose whipping Sweeping with brooms	Possible ergonomics risks factor due to unnatural position being	Health	Musculoskeletal impact- muscle strains	Awareness and training about Ergonomic	3	С	=	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulations; Compensati on for Occupational
		taken and extending standing	Health	Cardiovascular health related conditions	risk; Avoiding standing long time; work rest regime to be applied	3	С	=	Mostly effective	Site manager or Supervisor	Injuries and Disease Act,Ergonomic Regulations; ISO 45001:2018;
		Possible hose whipping	Safety	whiplash injuries	Permit to work system; Competent and experience personal for the project; usage	3	С	=	Mostly effective	Site manager or Supervisor	Occupational Health and Safety Act; General Administrative Regulations; Compensati
		Possible cuts by high pressurised air	Safety	Deep cuts injuries	of whipchecks together with couplings, usage of hearing prection devices; Permit to work system	3	С	=	Mostly effective	Site manager or Supervisor	on for Occupational Injuries and Disease Act,Noise Induced Hearing Loss Regulations; Pressure Equipment Regulations

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