

Occupational Health and Safety Baseline risk assessment template Rev 5 Vanderkloof																									
Business/Operating unit:				Vanderkloof Power Station					Department:		Risk & Assurance								Next Review Date (every 2 years):		13/03/2027	Template identifier:	240-70044602		
Date: 13/03/2025									Prepared by:		VANDERKLOOF TEAM				Authorised by:		Gerrit Terret						Document identifier	151A/2837	
															Designation: O&M Manager						Revision number:	6			
															Date: 2025/03/13						Revision date:	30-Apr-27			
Refer to Occupational Health and Safety Risk assessment procedure 32-420																									
List activity	Activity type (Routine/Non-routine)	Hazard nr	Hazard Identification	Risk Nr	Associated risk	Risk type	Cause(s) of the risk	Exposed group/employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls	Consequence	Likelihood	Risk Priority Rating	Additional Controls or Tasks Aimed at improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Risk Management (IRM) reference number			
Indicate R or N  1. Routine activities and situations create hazards through day-to-day operations and normal work activities; 2. Non-routine activities and situations are occasional or unplanned.		#	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	What causes the risk to come into effect?	Who is exposed to the hazard i.e. visitors, members of the public, etc.	Who is accountable for making sure the controls and monitors are in place, implemented, regularly reviewed for effectiveness.	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	Consider the worst 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) <b>Elimination</b> <b>Substitution</b> <b>Engineering controls</b> <b>Administrative controls</b> <b>Personal protective equipment (PPE)</b> NB: The risk shall be evaluated, assessed and rated again once additional controls have been implemented and those				- <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) <b>Elimination</b> <b>Substitution</b> <b>Engineering controls</b> <b>Administrative controls</b> <b>Personal protective equipment (PPE)</b> NB: The risk shall be evaluated, assessed and rated again once additional controls have been implemented and those	How we know if we are succeeding, include comments on effectiveness. This may include i.e. measurements, inspections, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls (if applicable)	Where relevant, list the relevant legislative and/or Eskom requirements that prescribe the control.	Once a date has been agreed to, this can not be changed (if applicable)	Pending, In Progress, Complete (if applicable)	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)			
The use of handtools, Powertools	N	1	Defective/broken tools	1	Use of defective/broken tools	Safety	Not wearing PPE, incorrect methods of use, excessive use of equipment and tools, lack of continuous risk assessment, inadequate inspections	Employees/contractors	Supervisor/Manager/Employees	Daily for 2hrs	Hand injuries, cuts and bruises, electrical shock, fractures, incidents which could lead to loss time.	PPE,supervision, Tools box talks,routine inspections	4	A	III	Fully effective	Maintain existing controls	Inspections, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	2	Welding machine	2	Use of defective, uninspected welding machine,	Safety	Not wearing PPE, incorrect methods of use, lack of continuous risk assessment, Defective welding machines,Damaged power leads and incorrect earthing,inadequate inspections, lack of monitoring	Employees/contractors	Supervisor/Manager/Employees	Once a month	Burns, flash burns(arc eye), electrical shock, fire, incident that could lead to LTI	PPE, supervision, Tools box talks, routine inspections, hot work monitor, fire fighting equipment, machine guarding	5	A	II	Fully effective	Maintain existing controls	Behavioural safety observations, inspections, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	3	Grinding machine	3	Use of defective, uninspected grinding machine, exposure to excessive noise	Safety	Not wearing proper PPE, incorrect methods of use, misuse of the equipment, lack of continuous risk assessment, not wearing PPE	Employees/contractors	Supervisor/Manager/Employees	Once a month	Cuts, Burns, shocks, grinder blades breakage, tripping on cables, incident that could lead to LTI, Injuri, Trauma.	PPE, supervision, Tools box talks, routine inspections, Planned task Observations, OHS surveys,machine guarding	5	B	II	Fully effective	Maintain existing controls	Behavioural safety observations, inspections, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	4	Petrol fumes, dust	4	Inhalation of petrol and dust fumes	Health	Not using PPE, lack of risk assessment, lack of training, Operation of the machine	Employees/contractors	Supervisor/Manager/Employees	3 monthly	Respiratory diseases	Regular breaks, dust mask, PPE, supervision and , medical surveillance	4	B	III	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	5	Manual handling	5	incorrect lifting/Hand lifting heavy objects from the floor	Health	Not taking breaks, incorrect lifting technique	Employees/contractors	Supervisor/Manager/Employees	Monthly	Fatigue, Back, shoulder, neck, foot injuries injuries	Supervision, toolbox talks, PPE, taking breaks,	4	B	III	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	6	Vibration	6	Exposure to excessive vibration	Health	Operation of the machine, maintenance/cleaning of the machine, lack of supervision	Employees/contractors	Supervisor/Manager/Employees	6 monthly	Hand arm vibration syndrome, whole body vibration syndrome	Rotation of operator,supervision, medical surveillances	3	B	III	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	7	Noise Pollution	7	Exposure to excessive noise above exposure limit	Health	Operation of the machine, maintenance of the machine, No supervision, No training, exposure to excessive noise	Employees/contractors	Supervisor/Manager/Employees	Daily	NIHL, Tinnitus	Medical Surveillance Measurements, Noise Surveys, Ear plugs	4	C	II	Mostly effective	Planned task observation	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	8	Dangerous Moving parts	8	Use of unguarded machines	Safety	Inadequate guards	Employees/contractors	Supervisor/Manager/Employees	3 monthly	Cuts,crush and burns	Supervision, toolbox talks, PPE,inspection	2	C	III	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	9	Flying Debris	9	Use of unguarded machines	Safety	Operation of the machine, not using PPE	Employees/contractors	Supervisor/Manager/Employees	3 monthly	Eye, head, and ear injuries	PPE,machine guarding, toolbox talks	2	C	III	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	10	Compressed air	10	High pressure air when connecting to tools and equipment	Safety	Inadequate training	Employees/contractors	Supervisor/Manager/Employees	3 monthly	Air embolism, ruptured ear drums or organs, and dislodged eye balls	Training, Tool box talks, behavioural observations,depressurize system	4	B	III	Fully effective	Maintain existing controls	Behavioural safety observations, inspections, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N					Safety	Tools not secured, improper handling of tools	Employees/contractors	Supervisor/Manager/Employees	18 monthly	Head injuries, fatal injuries.	Supervision, Tool box talks, behavioural observations, risk assessment,	5	C	II	Mostly effective	Planned task observations,	Behavioural observations, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
Housekeeping	R	12	Wet and slippery surface	12	Slipping on wet, slippery floors	Safety	Floor wet from cleaning water, spillage of oil (plant checks)	Employees / contractors	Supervisor/Manager/Employees	Monthly	Head injuries, Back, neck, and spine injuries, Torn tendons and ligaments	Slippery floor Signs	4	B	II	Fully effective	Maintain existing controls	Behavioural observations, incident records, inspections	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	13	Cleaning chemical agents	13	Ingestion, inhalation, direct contact with skin	Health	Not wearing PPE, not referring to MSDS's	Employees / contractors	Supervisor/Manager/Employees	3 Monthly	Respiratory diseases	PPE, MSDS's, Toolbox talks,behavioural observations	3	B	II	Fully effective	Maintain existing controls	Behavioural observations, incident records inspections	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
Operational activities at VDK	R	14	Live apparatus/circuits	15	Incorrect switching , linking and isolating	Safety	Lack of training, inadequate risk assessment	Employees/contractors	Supervisor/Manager/Employees	Weekly	flash burns,electric shock,electrical fires,	Arch Flash PPE, Permit to work system,Isolation, test before touch, risk assessment, tool box talks, Life saving rules, PSR, Authorisation, OSH/HS training	5	C	II	Mostly effective	Planned task observations	Authorisations, Behavioural observation, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	N	15	Heavy equipment(handling breakers)	16	Incorrect lifting technique	Health	Incorrect posture, lifting and interaction with heavy equipment	Employees/contractors	Supervisor/Manager/Employees	3 monthly	Work related upperlimb disorder, back injuries	Toolbox talks, PPE, taking breaks, two man rule	4	B	II	Fully effective	Maintain existing controls	Authorisations, Behavioural observation, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
Operating of mobile equipment(crane, forklift truck)	R	16	Loading and offloading equipment	17	Equipment falling on staff, other equipment	Safety	Capacity not checked, Unserviced cranes, inadequate inspection of lifting equipment, Incorrect rigging, Not following SWP, staff not trained properly, unauthorised personnel	Employees/contractors	Supervisor/Manager/Employees	3 monthly	Crushing, property damage, serious head injuries	Training and appointments, Inspections, PPE, Site conditions,capacity checks, pre-job brief, Observations	4	B	II	Fully effective	Maintain existing controls	Incident records, inspections,Behavioural observation	Supervisor/Manager	MDR 18,	N/A	N/A	N/A		
	N	17	Noise	18	Excessive noise exposure> 85dB	Health	Not using hearing protection, lack of training, operation of the machine	Employees/contractors	Supervisor/Manager/Employees	Weekly	NIHL, tinnitus	Awareness training, PPE, toolbox talk, pre-job brief, NIHL awareness	4	C	II	Mostly effective	Planned task observations	Incident records, medical surveillance, surveys, behavioural observations	Supervisor/Manager	MDR 18,NIHL regulations	N/A	N/A	N/A		
	N	18	Unauthorised personnel operating mobile equipment	19	Overturning,falls of material,crushing hazards	Safety	No training, Unauthorised personnel, No Supervision, Not following Safe work procedures	Employees/contractors	Supervisor/Manager/Employees	Weekly	Property/lifting equipment damage, Serious injuries	Training, Supervision, Observations, toolbox talks, permit to work	4	B	II	Fully effective	Maintain existing controls	Incident records, inspections, Behavioural observation	Supervisor/Manager	MDR 18,	N/A	N/A	N/A		
	N	19	Diesel Fumes	20	inhalation of fumes	Health	Inadequate PPE, lack of supervision, lack of risk assessment, lack of service, using machine that is not serviced,operation of the machine	Employees/contractors	Supervisor/Manager/Employees	Weekly	Respiratory diseases	Supervision and regular breaks, dust mask, Proper PPE, proper training and authorization, medical surveillance, pre-job brief	3	C	III	Fully effective	Maintain existing controls	Incident records, inspections, Behavioural observation	Supervisor/Manager	MDR 18,	N/A	N/A	N/A		
	N	20	Poor visibility	21	crushing hazard	Safety	Raised load obscuring the visibility, not using Banksman	Employees/contractors	Supervisor/Manager/Employees	Weekly	Crushing injuries, property damage	Use of Banksman, toolbox talk, training and appointments, audible warnings	2	A	IV	Fully effective	Maintain existing controls	Incident records, inspections, Behavioural observation	Supervisor/Manager	MDR 18,	N/A	N/A	N/A		
	N	21	Suspended loads	22	Moving under suspended loads	Safety	Risk assessment not conducted, induction training not done,unauthorised personnel	Employees/contractors	Supervisor/Manager/Employees	Monthly	Head injuries	Induction training, PPE,	5	B	II	Mostly effective	Planned task observations	Incident records, inspections, Behavioural observation	Supervisor/Manager	MDR 18,	N/A	N/A	N/A		
	R	22	Defective lifting equipment	23	Struck by, caught in between	Safety	Inadequate inspection of lifting equipment, Incorrect rigging	Employees/contractors	Supervisor/Manager/Employees	Weekly	crushing injuries, head injuries	Routine inspections, training	5	B	II	Mostly effective	Planned task observations	Incident records, inspections, Behavioural observation	Supervisor/Manager	MDR 18,	N/A	N/A	N/A		
	R	23	Oxygen deficiency	24	inability to acquire oxygen	Health	Incompetency, lack of emergency drills, lack of risk assessment, lack of atmospheric testing, inadequate PPE	Employees/Contractors	Supervisor/Manager/Employees	3 monthly	Unconsciousness	Permit to work, Risk Assessment, Training, PPE, Monitoring arrangements, means of access	3	B	II	Fully effective	Maintain existing controls	Incident records, Behavioural observation	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
Confined spaces	R	24	Heat	25	Exposure to excessive thermal environment	Health	Lack/improper ventilation, not allowing cool-off time	Employees/Contractors	Supervisor/Manager/Employees	36 monthly	Heat stress, dehydration, unconsciousness	Openings to allow ventilation, training, mechanical ventilation,permit to work system	3	A	IV	Fully effective	Maintain existing controls	Incident records, Behavioural observation	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	25	Polluted Water	26	Access to polluted water	Health	lack of training, lack of emergency drills, lack of risk assessment,lack of surveys, inadequate PPE	Employees/Contractors	Supervisor/Manager/Employees	36 monthly	Hepatitis A or B, Weil's disease, gastroenteritis	Medical Surveillance, Adequate PPE,permit to work system	3	A	IV	Fully effective	Maintain existing controls	Incident records, Behavioural observation	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	26	Restrict and dark space	27	struck against or body strain	Health	Not physically or medically fit,lack of training, lack of emergency drills, lack of risk assessment,Poor ergonomics, insufficient lighting	Employees/Contractors	Supervisor/Manager/Employees	36 monthly	work related upperlimb disorder, back injuries, crushing injuries	Medical surveillance, permit to work system,Emergency preparedness procedures, inspections, surveys	3	A	IV	Fully effective	Maintain existing controls	Incident records, Behavioural observation	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	27	Toxic,explosive,flammable atmosphere	28	Inhalation of fumes, welding activities, smoking	Safety/health	Incompetency, lack of emergency drills, lack of risk assessment, lack of atmospheric testing, inadequate PPE	Employees/Contractors	Supervisor/Manager/Employees	36 monthly	burns from fire, Unconsciousness	Gas testing, training, permit to work system, fire extinguishers, Emergency preparedness procedures	3	A	IV	Fully effective	Maintain existing controls	Incident records, Behavioural observation	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
Exposure to the field(outside area)	R	28	Snakes bite	29	coming into contact with a deadly snake	Health	Lack of awareness, Lack of attention/inappropriate PPE/ Unaware of danger in the vicinity	Employees/Contractors	Supervisor/Manager/Employees	Monthly	Shock, fever, fainting, rapid pulse and breathing difficulties and fatality.	Snake Awareness training, toolbox talk, be aware of workplace and surroundings overall and safety shoes, gloves, and goggles	5	B	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	29	Wet ,slippery or uneven surfaces	30	Slipping on wet floors or uneven surfaces	Safety	Lack of focus, unaware of the risk	Employees/Contractors	Supervisor/Manager/Employees	Weekly	Head injuries, Back, neck, and spine injuries, Torn tendons and ligaments	PPE to be worn, be aware of where you are sleeping, clean up spills immediately, toolbox talks	3	B	III	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	30	Extreme temperatures/ thermal environments	31	Exposure to excessive thermal conditions	Health	Lack of awareness, improper PPE, long working hours	Employees/Contractors	Supervisor/Manager/Employees	Monthly	Heat and cold stress, dehydration	Suitable PPE, take breaks, clean drinking water,toolbox talk	4	B	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		
	R	31	Insects bites	32	coming into contact with dangerous insects	Health	Lack of awareness, Lack of attention/inappropriate PPE/ Unaware of danger in the vicinity	Employees/Contractors	Supervisor/Manager/Employees	Weekly	Allergic reaction, Experience burning, pain, itching, redness, headache, rash, nausea, vomiting, possible fatality	Awareness training, PPE, toolbox talk, be aware of your surroundings	4	C	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A		

Workplace environment(Plant) and facilities	R	32	Slippery/wet floors	33	Slipping on wet, slippery floors	Safety	Leaks	Employees/Contractors	Supervisor/Manager/Employees	Daily, 2hrs	Head injuries, Back, neck, and spine injuries, Torn tendons and ligaments	Awareness training, PPE, toolbox talk, be aware of your surroundings, cleaning	3	B	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	R	33	Ergonomics	34	Incorrect posture	Health	Poor ergonomics when checking for leaks under equipment	Employees/Contractors	Supervisor/Manager/Employees	Daily, 2hrs	Work related upperlimb disorder, back injuries	Awareness training, toolbox talk	2	C	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	R	34	Biological hazardous substance	35	Inhalation of biological fumes	Health	Contact with biological hazardous substance, ground water ingress	Employees/contractors	Supervisor/Manager/Employees	Monthly	Contracting hepatitis A or B disease infections	PPE, toolbox talks , Hepatitis A&B injections given to employees	3	B	II	Fully effective	Maintain existing controls	Behavioural observations, Incident records, inspections	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	35	Excessive noise	36	Exposure to excessive noise above exposure limit	Health	Ear plug not work when working in areas where noise exceeds the exposure limit/ Ear plugs not worn correctly	Employees/Contractors	Supervisor/Manager/Employees	Daily, 2hrs	NIHL, tinnitus	Use of earplugs, NIH, awareness, toolbox talks, Noise surveys,	3	C	II	Fully effective	Planned task observations	Incident records, medical surveillance, surveys, behavioural observations	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	31/08/2020	Completed	N/A
Working with Computers, office layout, printer	N	36	Inadequate/ Excessive lighting levels	37	Poor visibility	Health	Working in areas with poor/ excessive lighting	Employees	Supervisor/Manager/Employees	Daily, 6hrs	Straining and or irritation of the eyes, eye damage	Burdening Surveys	2	C	II	Fully effective	Maintain existing controls	Incident records, surveys	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	37	Wet or slippery or uneven surfaces	38	Slipping on wet floors or uneven surfaces	Safety	Poor housekeeping,lack of focus/ no sign indicating wet floor, lack of awareness	Employees	Supervisor/Manager/Employees	Daily, 6hrs	Head injuries, Back, neck, and spine injuries, Torn tendons and ligaments	PPE to be worn, be aware of where you are stepping, clean up spills immediately, toolbox talks	3	B	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	38	Paper jams	39	Removing paper jams	Safety	Lack of concentration	Employees	Supervisor/Manager/Employees	Daily, 6hrs	Cuts, entanglement, shearing,crushing injuries	Guard over blade, Toolbox talk, Training	3	B	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	39	Poor ergonomics at workstations	40	Sitting in awkward positions,repetitive movement(using mouse)	Health	No Regular breaks, Incorrect posture	Employees	Supervisor/Manager/Employees	Daily, 6hrs	Work related upper limb disorder, repetitive strain syndrome, carpal tunnel syndrome	Toolbox talks,Awareness, Correct work station layout, Avoid long working sessions, Ergonomically designed chairs	3	B	II	Fully effective	Maintain existing controls	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
Driving on site and public roads	N	40	Overspeeding	41	Losing control of vehicle	Safety	Not adhering to the speed limit, pressed for time,Not adhering to life saving rules	Employees/contractors	Supervisor/Manager/Employees	Daily	Serious injuries that could lead to lost time injury	Mix telematics, toolbox talks, awareness training, K33, Vehicle driver safety procedure, driver permit, Pre and post trip inspections, Life saving rules	4	C	II	Fully effective	Planned driver observations,	Driver risk profile, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), vehicle driver safety procedure	N/A	N/A	N/A
	N	41	Fatigue	42	Driving long hours,overtime	Safety	Outages, Operational	Employees/contractors	Supervisor/Manager/Employees	Once a month	Serious injuries that could lead to lost time injury	toolbox talks, awareness training, Vehicle driver safety procedure, driver observations, SHE Policy	4	B	II	Fully effective	Maintain existing controls	Driver risk profile, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), vehicle driver safety procedure	N/A	N/A	N/A
	N					Safety						Toolbox talks, awareness training	3	C	II	Fully effective	Maintain existing controls	Driver risk profile, incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), vehicle driver safety procedure	N/A	N/A	N/A
	N	43	Driving on gravel road	44	Speeding on gravel road	Safety	road not tared/ private road, not adhering to the speed limit, uneven ground	Employees/contractors	Supervisor/Manager/Employees	Once a month	Serious injuries that could lead to lost time injury	Toolbox talks, awareness training, Vehicle driver safety procedure, driver observations, Life saving rules,	4	C	II	Fully effective	Planned driver observations,	Driver risk profile, incident records,	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), vehicle driver safety procedure	N/A	N/A	N/A
	N	44	Driving on public roads	45	Speeding on public road, unforeseen circumstances e.g third party at fault	Safety	Not adhering to the speed limit. Not paying attention, not familiar with the road, making use of cellphone, distractions, exposed to unsafe behaviours, congested roads, pedestrians and live stock, Taxi and Truck on the road, Civil unrest, Negligent driving,, Not adhering to life saving rules	Employees/contractors	Supervisor/Manager/Employees	Daily	Serious injuries that could lead to lost time injury	Mix telematics, toolbox talks, awareness training, K33, Vehicle driver safety procedure,driver permit, Pre and post trip inspections, PDP, Life saving rules	4	C	II	Fully effective	Planned driver observations,	Driver risk profile, incident records,	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), vehicle driver safety procedure	N/A	N/A	N/A
	N	45	Ascending, descending and working at elevated positions	46	Slip, trip and fall	Safety	Wear and tear, lack of concentration, misjudging height, not applying three point contact, not hooking up at height	Employees / contractors	Supervisor/Manager/Employees	Daily, 2hrs	Head injuries, Back, neck, and spine injuries, Torn tendons and ligaments	Apply three point contact, safety inspections, awareness training, Maintenance when necessary, working at height rescue drill	4	C	II	Mostly effective	Planned driver observations,	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	46	Awkward Position, Heavy equipment	47	Incorrect posture	Safety	Not taking breaks, incorrect lifting technique, lack of risk assessment, lack of training	Employees/contractors	Supervisor/Manager/Employees	18 Monthly	Crushing, WRULD	taking breaks, pre-job brief, two man rule, toolbox talks	4	A	II	Fully effective	Maintain existing controls	Incident records, inspections	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	47	Falling objects	48	Tools falling from elevated positions	Safety	Objects not secured,dropping zone not identified	Employees/contractors	Supervisor/Manager/Employees	18 Monthly	Head injuries,Injuries that could lead to lost time injury	Tool box talks, behavioural observations, risk assessment	4	C	II	Fully effective	Planned task observation	Incident records	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
Battery Room	R	48	Acid, hydrogen fumes	49	Coming into contact with acid, inhaling fumes, explosives build up	Health	lack of proper ventilation, not using correct PPE, lack of risk assessment, lack of training	Employees/contractors	Supervisor/Manager/Employees	Monthly	Burns,explosions	Fire extinguisher, PPE, permit to work system, risk assessment, training	4	B	II	Fully effective	Maintain existing controls	Incident records, inspections	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
Hazardous Locations	R	49	Hydrogen, Diesel vapors, Paint fumes, Electrical cleaner vapors, Asbestos etc.	50	inhaling fumes, explosives build up, exposure to asbestos	Health	Explosive fumes build up, not using correct PPE, lack of risk assessment	Employees/contractors	O&M Manager/Project Manager	Monthly	Fire, Explosions, injuries that could lead to LTI	Fire extinguisher, PPE, permit to work system, risk assessment, Asbestos identification, removal and handling contract, Eskom managers asbestos using the contract.	4	B	II	Fully effective	Maintain existing controls	Incident records, inspections	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
Emergency Risks	N	50	Floods	51	uncontrolled flooding	Safety	Plant failure, system/equipment failure, adverse weather conditions	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	Years to decades	drowning,trauma, production loss, damage to property	Emergency plan/preparedness, risk assessment, emergency drill routines,activate water alarms and limit switches activation	5	A	II	Mostly effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	51	Bomb threat	52	Explosions	Safety	Unknown	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	Years to decades	Trauma, Injuries that could lead to LTI	Emergency plan/preparedness, risk assessment, emergency drill routines, contingency plans	4	A	II	Fully effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	52	Community riots/ Civil unrest	53	Getting beaten or stabbed	Safety	Unsatisfied customers (Delays in responding to faults, re-occurrence of similar faults and any other motives, load shedding)	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	5 times a year	Injuries that could result in medical attention	Emergency plan/preparedness, risk assessment, emergency drill routines,contingency plans contact the local SAPS	3	C	II	Fully effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	53	Explosions	54	Explosions	Safety	fuel tanks, batteries exploding, plant failure, human error, conditions	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	Years to decades	Injuries that could lead to LTI	Emergency plan/preparedness, risk assessment, emergency drill routines,contingency plans	4	A	II	Fully effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	54	Blackouts/Loss of power supply	55	Extreme weather condition(lightning)	Safety	Weather conditions, insufficient power supply	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	5 times a year	Property damage, injuries that results to medical attention	Emergency plan procedure/preparedness, risk assessment, emergency drill routines,contingency plans, emergency lighting, diesel generator back up	3	C	II	Fully effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	55	Hostage situations	56	Getting shot, beaten or stabbed	Safety	Unknown, load shedding	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	Years to decades	Injuries, Damage to premises	Emergency plan procedure/preparedness, risk assessment, emergency drill routines,contingency plans,	4	B	II	Fully effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
	N	56	Fire	57	Inhalation, irritation from the cartridges chemical fumes and dust	Safety/Health	Poor housekeeping, Solids such as paper, wood, plastic etc. Flammable liquids such as paraffin, petrol, oil etc. Fires involving electrical apparatus, Materials with low ignition temperatures.	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	Years to decades	Respiratory diseases, burns, injuries that could lead to LTI	Emergency plan procedure/preparedness, risk assessment, emergency drill routines,contingency plans Smoke detectors, Deluge fire prevention system, Sprinkler fire suppression system, Fire alarm system, Fire Extinguishers, Fire Hoses, Fire Hydrants and dampers. Servicing of fire control and detection systems. Keeping control of quantities in flammable store. Flammable storage permit.	4	B	II	Fully effective	Maintain existing controls	Incident records,emergency drill routines	Supervisor/Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	N/A	N/A	N/A
Site operational activities	R	57	Psychosocial factors	57	Suicide, Stress, Depression , Bullying, Harassment	Safety	Divorce, Work Pressure, Personal Problems, Financial Issues, Loss of loved one	Employees / contractors	O&M Manager	Daily	Fatality, Poor work performance	Eskom Assistant Program (EAP)	5	B	II	Mostly effective	Training and awareness, employee engagement	Incident Analysis	O&M Manager	ISO 45001 (Clause 5.1.2)	N/A	N/A	N/A
Structural Integrity Inspection by DWS	R	58	Water	58	Flooding of station	Safety	Department of Water Affairs not inspecting dam wall 5 yearly as per statutory requirements	Employees / contractors	O&M Manager	Daily	Damage to the station , Fatality	Civil engineering department conduct annual inspections of the dam wall we level warns by DWS	5	B	II	Mostly effective	Have continuous engagement with department of water affairs	DSW 5 yearly Report, Engineering annual inspection	O&M Manager	Section 8 of OHS Act, CR 11	N/A	N/A	N/A
Covid 19 management	R	61	Coughing and high body temperature	57	Exposure to covid 19 related infections and symptoms	Health	Poor hygiene practices ,failure to continually sanitise and failure to seek proper medical advice.	Employees, contractors, Visitors, Suppliers	Manager/Supervisor	Daily	Fatality and Medical incidents	Continuously sanitizing work areas ,hands and follow all covid 19 related Eskom practices.	2	B	II	Mostly effective	Training and awareness, employee engagement	Covid 19 Incident Analysis ,Proper site access control policy.	Manager/Supervisor	The Disaster Management Act 57 of 2002	None	None	N/A
																							N/A

