Occupational Health and Safety Baseline risk assessment template Rev 5 Gariep

Business/Operating unit:	**Gariep Power Station**	**Department:**	Risk & Assurance	**Next Review Date (every 2 years):**	**10/02/2028**
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Date:	**10/02/2026**	**Prepared by:**	GARIEP TEAM	**Authorised by:**	Name: Nimrold Sadiki Designation: Snr Supervisor Date: 2025/03/10
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Refer to Occupational Health and Safety Risk assessment procedure 32-620

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*
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	**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 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** **Engineering controls** **Administrative controls** **Personal protective equipment (PPE)**				**RCE** Risk Control Effectiveness	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** **Engineering controls** **Administrative controls** **Personal protective equipment (PPE)** **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 guards	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 performing Pre-	Employees/contractors	Supervisor/Manager/Employees	Once a month	Cuts, Burns, shocks, grinder blades breakage, tripping on cables, incident that could lead to LTI, NIHL, Tinnitus, Fatalaire	PPE, supervision, Tools box talks, routine inspections, Planned task Observations, OHS surveys, machine guards	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, maintanance/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.**	**N/A**	**N/A**	N/A
	N	7	Noise Pollution	7	Exposure to excessive noise above exposure limit	Health	Operation of the machine, maintanance 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	5	C	II	**Mostly effective**	Planned task observation	Incident records	Supervisor/Manager	**Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)**	**31/08/2020**	**Completed**	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.**	**N/A**	**N/A**	N/A
	R	10	Compressed air	10	High pressure air when connecting to tools and equipement	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, behavouiral 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	11	Unsecured tools	11	Tools falling from elevated positions	Safety	Tools not secured, improper handling of tools	Employees/contractors	Supervisor/Manager/Employees	18 monthly	Head injuries, fatal injuries.	Supervision, Tool box talks, behavouiral 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)**	**31/08/2020**	**Completed**	N/A
Housekeeping	R	12	Wet and slippery surface	12	Slipping on wet, slipery 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	Slipery floor Signs, Daily Inspections	4	B	III	**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,behavouiral observations	3	B	III	**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 GRP	R	14	Live apparatus/circuts	14	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, ORHVS training	5	C	II	**Mostly effective**	Panned task observations	Authorisations, Behavioural observation, incident records	Supervisor/Manager	**Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)**	**31/08/2020**	**Completed**	N/A
	N	15	Heavy equipment(handling breakers)	15	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	III	**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	16	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 personel	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	III	**Fully effective**	Maintain existing controls	Incident records, ispections,Behavioural observation	Supervisor/Manager	**MDR 18,**	**N/A**	**N/A**	N/A
	N	17	Noise	17	Excessive noise exposure> 85dB	Health	Not using hearing protection, lack of training, operation of the machine	Employees/contractors	Supervisor/Manager/Employees	Weekly	NiHL, tinittus	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**	**31/08/2020**	**Completed**	N/A
	N	18	Unauthorised personnel operating mobile equipment	18	Overturning,falls of material,crushing hazards	Safety	No training, Unauthorised personel, 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	III	**Fully effective**	Maintain existing controls	Incident records, ispections,Behavioural observation	Supervisor/Manager	**MDR 18,**	**N/A**	**N/A**	N/A
	N	19	Diesel Fumes	19	inhalation of fumes	Health	Inadequate PPE, lack of supervion, 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 authorisation, medical surveillance, pre-job brief	3	C	II	**Fully effective**	Maintain existing controls	Incident records, ispections,Behavioural observation	Supervisor/Manager	**MDR 18,**	**N/A**	**N/A**	N/A
	N	20	Poor visibility	20	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, ispections,Behavioural observation	Supervisor/Manager	**MDR 18,**	**N/A**	**N/A**	N/A
	N	21	Suspended loads	21	Moving under suspended loads	Safety	Risk assessment not conducted, induction training not done,unauthorised personel	Employees/contractors	Supervisor/Manager/Employees	Monthly	Head injuries	Induction training, PPE, signage	5	B	II	**Mostly effective**	Planned task observations	Incident records, ispections,Behavioural observation	Supervisor/Manager	**MDR 18,**	**31/08/2020**	**Completed**	
	R	22	Defective lifting equipment	22	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, LOTO	5	B	II	**Mostly effective**	Planned task observations	Incident records, ispections,Behavioural observation	Supervisor/Manager	**MDR 18,**	**31/08/2020**	**Completed**	
Confined spaces	R	23	Oxygen deficiency	23	inability to acquire oxygen	Health	Incompetency, lack of emergency drills, lack of risk assessment, lack of atmospheric testing, inadequete PPE	Employees/Contractors	Supervisor/Manager/Employees	3 monthly	Unconsciousness	Permit to work, Risk Assessment, Training, PPE, Monitoring arrangements, means of access ,hygiene surveys	3	B	III	**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	24	Heat	24	Exposure to exessessive 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,hygiene 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	25	Polluted Water	25	Access to polluted water	Health	lack of training , lack of emergency drills, lack of risk assessment,lack of surveys, inadequete PPE	Employees/Contractors	Supervisor/Manager/Employees	36 monthly	Hepatitis A or B, Weil's disease, gastroenterities	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	26	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,hygiene 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	27	inhalation of fumes, welding activities, smoking	Safety/Health	Incompetency, lack of emergency drills, lack of risk assessment, lack of atmospheric testing, inadequete PPE	Employees/Contractors	Supervisor/Manager/Employees	36 monthly	burns from fire, Unconsiousness	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	28	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 difficultes and fatality.	Awareness training, PPE, toolbox talk, be aware of your surroundings	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	29	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 stepping, 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	30	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	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	31	Insects bites	31	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 ,pest control	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	32	Slipping on wet, slipery 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 surroundngs, cleaning	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	33	Bird droppings	33	Exposure to bird droppings		Lack of awareness, Lack of attention/ Unaware of danger in the vicinity	Employees/contractors	Supervisor/Manager/Employees	Daily	Contacting Avian influenza or Cryptococcosis infections	Regular inspecton and cleaning schedule ,PPE, waste removal Awareness on housekeeping and safe clean up , install bird proofing systems	4	C	II	**Fully effective**	Maintain existing controls	Incident records, medical surveillance, inspections	Supervisor/Manager	**Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)**	**31/03/2027**	**In progress**	N/A
	R	34	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, hygiene sureveys	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	35	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 , Hepatitus A&B Injections given to employees	3	B	III	**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	36	Excessive noise	36	Exposure to excessive noise above exposure limit	Health	Ear plugs 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, tinittus	Use of earplugs, NIHL 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	37	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	Illumination Surveys,Inspections,	2	C	III	**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	38	Wet or slippery or uneven surfaces	38	Slipping on wet floors or uneven surfaces	Safety	Poor housekeeping,lack of foucs/ no sign indicating wet floor, lack of awarness	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	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	39	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	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	40	Poor ergonomics at workstations	40	Siting in awkward positions,repetitive movement(using mouse)	Health	No Regular breaks, Incorrect posture	Employees	Supervisor/Manager/Employees	Daily, 6hrs	Work related upper limb disorders, repetetive strain syndrome, capal tunnel syndrome	Toolbox talks,Awareness, Correct work station layout, Avoid long working sessions, Ergonomically designed chairs, hygiene surveys	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
Driving on site and public roads	N	41	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 or fatality	Mix telematics, toolbox talks, awareness training, KS3, Vehicle driver safety procedure, driver permit, Pre and post trip inspections, Life saving rules	5	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**	**30/03/2021**	**Completed**	N/A
	N	42	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	43	Animals on the road	43	Animals crossing/on the road	Safety	Speeding, driving at night	Employees/contractors	Supervisor/Manager/Employees	Daily	Injuries that could result in seekig medical attention	Toolbox talks, awareness training, induction	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	44	Driving on gravel road	44	Speeding on gravel road	Safety	road not tarred/ 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**	**29/05/2022**	**Completed**	N/A
	N	45	Driving on public roads	45	Speeding on public road, unforseen 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, KS3, 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**	**30/03/2021**	**Completed**	N/A
Scaffold,Stairs, Cat ladders(working at a fall risk position)	N	46	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)**	**30/03/2021**	**Completed**	N/A
	N	47	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	III	**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
	R	48	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, behavouiral 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)**	**31/08/2020**	**Completed**	N/A
Battery Room	R	49	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 assesment, lack of training	Employees/contractors	Supervisor/Manager/Employees	Monthly	Burns,explosions	Fire extinguisher, PPE, permit to work system, risk assesment, training,inspection	4	B	III	**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	50	Hydrogen, Diesel vapors, Paint fumes, Electrical cleaner vapors etc.	50	inhaling fumes, explosives build up	Health	Explosive fumes build up, not using correct PPE, lack of risk assesment	Employees/contractors	O&M Manager	Monthly	Fire, Explosions, injuries that could lead to LTI	Fire extinguisher, PPE, permit to work system, risk assesment,	4	B	III	**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	51	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 assesment, emergency drill routines	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	52	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 assesment, emergency drill routines, contigency plans	4	A	III	**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	Community riots/ Civil unrest	53	Getting beaten or stabbed	Safety	Unsatisfied customers (Delays in responding to faults, re-occurance of similar faults and any other motives, load shedding)	Employees / contractors/Security guards/Employees / contractors/ visitors	Manager/ Risk & Assurance	5 times a year	Injuiries that could result in medical attention	Emergency plan/preparedness, risk assesment, emergency drill routines,contigency plans	3	C	III	**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	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 fatality	Emergency plan/preparedness, risk assesment, emergency drill routines,contigency plans	5	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	55	Blackouts/Loss of power supply	55	Extreme weather condition(lightning)	Safety	Weather conditions, insufficiant 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 assesment, emergency drill routines,contigency plans, emergency lighting	3	C	III	**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	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 assesment, emergency drill routines,contigency plans,	4	B	III	**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	57	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 assesment, emergency drill routines,contigency 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	III	**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	58	Psychosocial factors	58	Suicide, Stress, Depression , Bullying, Harrassment	Safety	Divorce, Work Pressure, Personal Problems, Fanancial Issues, Loss of loved one	Employees / contractors	O&M Manager	Daily	Fatality, Poor work performance	Eskom Assistant Program (EAP), Team talks and building	5	B	II	**Mostly effective**	Training and awareness, employee engagement	Incident Analysis	O&M Manager	**ISO 45001 (Clause 6.1.2**	**N/A**	**N/A**	N/A
Structural Intergrity Inspection by DWS	R	59	Water	59	Flooding of station	Safety	Department of Water Affairs not inspecting dam wall 5 yearly as per statutory requirments	Employees / contractors	O&M Manager	Daily	Damage to the station , Fatality	Civil engineering department conduct annual inspections of the dam wall	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	60	Coughing and high body temperature	60	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 Madical incidents	Continuously sanitizing work areas /hands and follow all covid 19 related Eskom practices.	2	B	III	**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