	T==								Oc	cupational Hea	Ith and Safety Baseline	risk assessment template		_						In the second	Transmer.		
Business/Operating unit:	PEAKING Department:																Next Review Date (every 2 years):	18/01/2025	Template identifier:	240-70044602 Rev 5			
Date	Date: 0506/2023								Prepared by	Small Hydro Team		Aut	thorised by	Name: Shaw	m Hurling							Document identifier	562/50
														ds. /					Revision number:	1			
												Designation: Plant Manager Signed:			AND CONTRACTOR OF THE PARTY OF					Revision date:	2027/04/30		
								Refer to Occupation	nal Health and Safety Risk :	issessment procedure 32-520		Date: 2023/06/21											
List activity	Activity type (Routine/Non- routine)	Hazard or	Hazard Identification	Risk No	ir Associated risk	Risk type	Cause(s) of the risk	Exposed group imployees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls					Additional Controls or Tasks Aired at improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Risk Management (IRM) reference number
List questic activities to be performed taking into consideration the equipment to be used, the personnel insolved in the task.	Indicate R or N 1. Routine activities and situations create shazords 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 hern. Note: A hexand can pose more than one risk.		A chance that isjury, it health or derrape could occur as a result of uncontrolled heaved.	Safety or healt	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 control and monitors - in place, - implemented, - negative reviewed for effectiveness.	In The frequency and duration the person/group is exposed to the huzar r e.g. Daily for 3 hrs.	Consider the worse case scenario without controls?	Includes Control of Co	Consequence	Lhathood	Risk Priority Rasing	RCE Risk Control Dischlarsess	Include: - Present price and a device to the country of the country, and country of the country, and country of the country o	How we know if we are succeeding, Include comments on affect-frameur. This may include it. measurements, inspections, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Estons requirements that prescribe the control.	Once a date has been agreed to, this can not be changed	Pending, In Progress, Complete	When applicable, add IRM system setemon number for tracking of beginning and the set of
Use of handhook & power tools	R	1	Defective/broken tools	1	Hand injuries, cuts and bruises , electrical shock, fractures, injuries,	Safety	Not wearing PPE, incorrect methods, accessive use of equipment and tools, lack of continuous risk disessiment, insidequals inspections, Use of unapproved homerisate tools. Not wearing PPE, incorrect methods, lack of continuous risk assessment, Defective		O&M Manager	Daily for 2hrs	LTI	Work Packages, Hand toots training, Tools box talks, routine inspections PPE- eye protection, apron, overall, safety boots	4	В		Mostly effective	Send communication to all employees and contractors that the use of unapproved home made tools is not allowed	Behaviounal safety observations, inspections, incident records	OSM Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	44834	In-progress	NA NA
	R	2	Welding	2	Burro, flash-burrs(arc eye), electrical shock, respiratory disease, fire, welding furne fever		and incorrect earthing insidequate inspections, tack of monitoring	Maintainance employees	O&M Manager	Once a month	LTI	Rower tools training. Tools box talks, routes suspections, bot work monitor, fire fighting equipment Welding visor, welding ayron, air monitoring every two pains.	4	С		Mosty effecti	Planned job observation to be conducted on the use of power tools.	Behavioural safety observations, inspections, incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	44634	In-programs	NA.
	R	3	Grinding	3	Cox. Noise, Burns, shocks, grinder blades breakage, vibrations, manual handling, stipping on cables. Engalfmentipe destal grinder), respiritory disease,	Safety	Not wearing proper PPE, incorrect methods, misuse of the equipment, lack or confinuous fisk assessment, not performing Pre inspections, Damaged power cords and incorrect saffring, nadequise inspections,	maintainance employees	O&M Manager	Once a month	LTI	Hand and power tools training, Tools box talks, routine inspections. Safety goggles, overall, eye protection, safety boots, safety gloves.	4	С	п	Mostly effective	Planned job observation to be conducted on the use of power tools.	Behavioural safety observations, inspections, incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	44834	In-progress	NA NA
	К	4	Compressed air	4	Eye and body injuries (blood clots)	Safety	Fitting coming adrift, Using compressed air to clean PPE	maintainance employees	O&M Manager	3 monthly	LII	Depressurize system, Training, Tool box talks, behavoural observations, Safety goggles	4	В		Mostly effective	Planned job observation to be conducted on the use of compressor.	Behavioural safety observations, inspections, incident records Behavioural safety observations, inspections,	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	44834	In-progress	NA
	rt.	5	Tools falling from heights	5	Possible property damage Jinjury	Safety	Tools not secured, improper handling of tools	Maintainance employees	O&M Manager	18 monthly	1" studity	Training, Tool box take, behavoural observations, risk assessment, safety hat, safety boots	5	С	П	Fully effective	None	Behavioural safety observations, inspections, incident records Behavioural and planned task	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Working at heights	None	None	NA
Working at heights	R	6	Falling from height	6	Workers could fall from elevated position and or full from the same level	Safety	No proper guard raits around working platforms, Not using Salety harness or not hooking up, not medically fit, not trained or ladder salety! working at heights training, Not adhering to or no fall protection plan	Employees / contractors	O&M Manager	Daily	Fatality	Safety guard rails, Medical surveillance, working at height and rescue training, induction training, bothor talks, Risk Assassment, Work Permit, impactions, safety clearance for working at heights, Life saving rules, safety harness	5	С	=	Mostly effective	Train and appoint fall protection development planner, Develop Fall protection plan,	observations, incident records, inspections, Training needs analysis and matrix	O&M Manager	procedure(32-418), CR 8, 9 &10, Section 8 and 14 of OHS Act, Life-saving Rules 240- 62196227, Revision 6,	30/09/2022	In-progress	NA NA
Cleaning	R	7	Wet and slippery surface	7	Slip & Fall	Safety	Wet floors, spiliage of oil (plant checks)	Employees / contractors	O&M Manager	Daily	LTI	Slipery floor Signs, Spill sob/ material, Safety boots	4	В		Fully effective	None	Behavioural observations, incident records, inspections	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	N/A
	R	8	Cleaning chemical agents	8	Absorption through skin, absorbtion through inhalation, Ingestion	Health	Not wearing PPE, not referring to SDS's	Employees / contractors	O&M Manager	Daily	Medical	SDS's, Toolbox talks, behavoiural observations, dust mask, safety gloves	3	В	-	Fully effective	None	Behavioural observations, incident records inspections	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
Perform Operating Activities	R	10	Live apparatus/circuits	10	Electrocution, flash burns	Safety	Incorrect switching , linking and isolating	Employees/Contractors	O&M Manager	Monthly	Fatality	Permit to work system, isolation, test before touch, risk assessment, tool box talks, task observations, Life saving rules, Arch flash PPE	5	В	IV	Fully effective	None	Authorisations, Behaviours and planned tisk observation, incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), Live saving rule	None	None	NA NA
	R	"	Heavy equipment(handling breakers)	11	Work related upperlimb disorder, back injuries	Health	Incorrect posture, lifting and interaction with heavy equipment	Employees/Contractors	O&M Manager	3 Morthly	LTI	Training, toolbox talks, taking breaks, two man rule, PPE	4	В		Fully effective	None	Authorisations, Behavioura and planned task observation, incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	13	Loading and offloading equipment	13	Equipment falling on employees or other equipment, Machanical failure	Safety	Capacity not checked, Unserviced cranes, Iradequate inspection of lifting equipment incorrect rigging, Not following Safe working procedures, shalf not trained properly, unsethorised personal, defective warning sitem.	Employees/contractors	O&M Manager	Weekly	Lost time injury	Warning Siren, Rosk assessment, Competent crare Oparater Joid tested crimes, Training and legal appointments, Indpactions, Siles conditions, capacity checks/ SWL, pre-job brist, Planned tesk Observations, PPE (gloves, hard hits, safety, boots)	4	В		Fully effective	None	Incident records, ispections,Behavioura and planned task observation, Internal audits	O&M Manager	MDR 18,	None	None	NA NA
	R	14	Noise	14	NHL, tinitus	Health	warning siten Not using hearing protection, lack of training, operation of the machine, Noise level survey not conducted	Employees/contractors	O&M Manager	Weekly	Medical	Awareness training, PPE, toolbox talk, pre-job brief, NHL awareness, Noise survey, ear protection	4	В		Fully effective	None	Surveys, incidents records	O&M Manager	NHL regulations	None	None	NA NA
Working with mobile equipment (Folklifts, Over-head mobile crane, Diesel generator)	R	15	Unauthorised personnel operating mobile equipment	15	Properlylifting equipment damage, Serious injuries	Safety	No training, Unauthorised personel, No Supervision, Not following Safe work	Employees/contractors	O&M Manager	Weekly	Fatality	Training/authorisation.Supervision, Observations, toolbox talks.	5	В		Fully effective	None	Incident records, ispections,Behavioura and planned task observation	O&M Manager	MDR 18,	None	None	NA NA
Diesel generator)	R	16	Diesel Fumes	16	Respiratory diseases	Health	Inadequate PPE, lack of supervion, lack of	Employees/contractors	O&M Manager	Weekly	Medical	Supervision and regular breaks, proper training and authorisation, medical surveillance, pre-job brief, dust mask.	3	С	-	Fully effective	None	Incident records, ispections, Behaviours and planned task observation Incident records,	O&M Manager	MDR 18,	None	None	NA
	R	17	Poor visibility	17	Crushing, property damage	Safety	machine that is not serviced. Raised load obscuring the visibility, not using Banksman.	Employees/contractors	O&M Manager	Weekly	Fatality	mask, Use of Berkeman, toolbox talk, training and appointments, sinen, reverse alarm, rotating light, pre-trip inspections	5	А	-	Fully effective	None	Incident records, ispections, Behavioura and planned task observation	O&M Manager	MDR 18,	None	None	NA NA
	R	18	Moving under suspended loads	18	Head injuries	Safety	lack of risk assessment, unauthorised personel	Employees/contractors	O&M Manager	Weekly	Fatality	Inspections Supervision by responsible person, Hard hat, safety signages for use of hard hat	5	В		Fully effective	None	Incident records, ispections, Behaviours and planned task observation	O&M Manager	MDR 18, OHS Act 8.2(i)	None	None	NA NA
	R	19	Defective lifting equipment and tackles	19	Struck by, caught in between, lifting tackle could snap and break	Safety	Inadequate inspection of lifting equipment Incorrect rigging	Employees/contractors	O&M Manager	Weekly	Fatality	Routine inspections, training, supervision	5	В	-	Fully	Nane	ispections,Behavioura and	O&M Manager	MDR 18, OHS Act 8.2(i)	None	None	NA NA
	R	20	Oxygen deficiency	20	Unconsciousness, asphysiation	Health	Incompetency, lack of emergency drills, lack of risk sessessment, lack of atmospheric testing, Absence of BA	Employees/Contractors	O&M Manager	18 monthly	Faculty	Permit to work, Risk Assessment, Training, Oxygen moreholing arrangements, safe means of access and egress, Emergency drill exercises, safety harness	5	А		Mostly effective	Confined Space and Gas Testing Training	planned task observation Incident records, Behaviours and planned task observation	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993),	30/09/2022	In-progress	NA NA
	R	21	Heat	21	Heat stress, heat stroke, dehydration, unconsciousness	Health	(breathing apparatus) Lack/improper ventilation, not allowing cool-off time	Employees/Contractors	O&M Manager	18 monthly	Medical	Medical surveillance, openings to allow ventilation, training, mechanical ventilation permit to work system	3	А	IV	Fully	None	Incident records, Behaviours and planned task observation	O&M Manager	GSR 5, 32-123 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA NA
Working in confined spaces	R	22	Water	22	Drowning	Health	Lack of training , lack of emergency drills, lack of risk assessment.	Employees/Contractors	Supervisor	18 monthly	Medical	Emergency plan procedure, risk assessment, adequate PPE (chin strap hard hat, breathing apparatus, safety)	3	A	IV	Fully effective	None	Incident records, Behaviours and planned task observation	Supervisor/Manager	(Act No. 85 of 1993) Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), GSR 5, 32-123	None	None	NA NA
	R	23	Restricted space	23	struck against or body strain	Health	Not physically or medically fit lack of training, lack of emergency drills, lack of risk assessment, Poor ergonomics,	Employees/Contractors	O&M Manager	18 monthly	Medical	boots) permit to work system, Medical survaillance, conduct emergency drill exercise Medical survaillance, permit to work system, Emergency preparedriess procedures, (chin strep hard hat, breathing apparatus, safety boots), mock drills.	3	A	N	Fully effective	None	Incident records, Behavioura and planned task observation	OSM Manager	(Act No. 85 of 1993), GSR 5, 52-123 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), GSR 5, 32-123	None	None	NA NA
	R	24	Toxic,explosive,flammable atmosphere	24	Fire, Unconsiduanesa	SafetyHealth	Incompetency, lack of emergency drills, lack of risk assessment, lack of	Employees/Contractors	O&M Manager	18 monthly	LTI	Gas testing, training, permit to work system, fire exting listers. Fragments propagations are propagations.	4	А	IV	Fully	None	Incident records, Behaviours and planned task observation	O&M Manager	and Safety Act, 1993	None	None	NA NA
	R	25	Snakes	25	Snake bites	Health	atmospheric testing, inadequate PPE Lack of awareness, Lack of attention/ Inappropriate PPE/ Unaware of danger in the vicinity	Employees/Contractors	O&M Manager	Monthly	Fatality	breating appoints a Snake Awanness training, toolbox talk, be aware of your surroundings, overall and safety gloves, safety goggliss and safety boots/ closed shoes	6	В	•	Fully effective	None	Incident records	O&M Manager	(Act No. 85 of 1993) Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), Sec 8, 14, GSR 2	None	None	NA NA
	R	26	Wet or slippery or uneven surfaces	26	Stip, trip and fall	Safety	Lack of focus, unaware of the risk	Employees/Contractors	O&M Manager	Monthly	Medical	Be aware of where you are stepping, clean up spills immediately, toolbox takes, Safety boots, overalls.	3	В		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), OHS Act Sec 8, 14	None	None	NA
Working in the field	R	27	Extreme temperatures/thermal environments	27	Heat and cold stress, dehydration	Health	Lack of awareness, improper PPE (sun screen, Sun hats and winter jackets), long working hours	Employees/Contractors	O&M Manager	Monthly	Medical	Take breaks, clean drinking water,toolbox talk, PPE (sun screen, Sun hats and winter jackets)	3	В		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) OHS Act Sec 8, 14	None	None	NA NA
	R	28	Insects (Scorpion, Spiders, Bees, Wasp.etc)	28	Allergic reaction, Experience burning, pain, ltching, rediress, headache, rash, nauses, vorniting, possible fatality.	Health	Lack of awareness, Lack of attention/ No allergy declaration with OHP, Unaware of danger in the vicinity	Employees/Contractors	O&M Manager	Monthly	Medical	Awareness training pre-job briefs	3	В		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
Office work(use of computers, office layout, printer)	R	29	Inadequate/ Excessive lighting levels Wet or slippery or uneven surfaces	29	Straining and or interior of the eyes, eye damage, headaches Sip, trip & Fall	Health Safety	Working in areas with poor/excessive lighting	Employees Employees	O&M Manager O&M Manager	Daly, 8hrs Daly, 8hrs	Medical Medical	Illumination Surveys, blinds Be aware of where you are stepping, clean up soils	2	С		Fully effective	None	Incident records, surveys Incident records	O&M Manager O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993),	None	None	NA NA
				21		Outur.	Poor housekeeping,lack of focus/ no sign indicating wet floor, lack of awarness Lack of concentration to the task at hand.	Employees	O&M Manager	Doly the	Cina Aid	Be aware of where you are stepping, clean up spills immediately, too'box take. Greet over histe. Trophys talk: Safety awareness.	4	В		Fully effective	None	landar monto	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	32	Removing paper jams Sitting in awkward positions, Poor ergonomics at workstations	32	Cuts, engulfment, shearing,crushing injuries Work related upper limb disorders, repeterive strain syndrome, capal tunnel	Health	No Regular breaks, Incorrect posture	Employees	O&M Manager O&M Manager	Daily, Strs	rese and Medical	Guard over blade, Toolbox talk, Safety awareness Toolbox talks, Awareness, Avoid long working sessions, Esponomic survey	3	В		Fully effective Fully effective	None None	Incident records	OSM Manager OSM Manager	Occupational Health and Safety Act, 1993 (Art No. 35 of 1993 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None None	None None	NA NA
	R	33	Overspeeding	33	syndrome Vehicle accident	Safety	Not adhering to the speed limit, pressed for time	Employees/contractors	O&M Manager	Daily	Fatalities	Mix telematics reporting, drive camera	5	С	÷	Mostly effective	Consider conducting driver observation on each driver and leep records	Driver risk profile, incident records	O&M Manager		None	On-going	NA NA
													5	С		effective	each driver and keep records			and Safety Act, 1993 (Act No. 85 of 1993),	None	Un-going	NA

	R	34	Driving while intoxicated	34	Vehicle accident	Safety	Not Adhereing to rules of the road and Eskom life saving rules	Employees/contractors	O&M Manager	Daily	Fatalities	Driver risk Profile Awareness training ,Eskom life saving rules acknowledgement	5	c		Mostly	Consider conducting driver observation on	Driver risk profile, incident records	O&M Manager	Occupational Health and Safety Act, 1993	None	On-going	NA NA
Driving	R	34	Driving on public roads and or private roads	34	Vehicle accident	Safety	Not adhering to the speed limit. Not pairing attention, not familiar with the road.	Employees/contractors/	O&M Manager	Daily	Fatalities	Mix telematics and coaching, Pre and post trip inspections. Life saving rules. Ensure to keep safe			•	effectiv	each driver and keep records	Driver risk profile, incident	O&M Manager	(Act No. 85 of 1993), Occupational Health and Safety Act, 1993	No.	Grigality	inn.
							miking use of cellphone, distractions, congested nods, pedestriens and live stock, Tsei and Truck on the road, Civil unsast. Negligent dinking, Not achieving to the saving rales, failure to check blind spots when overtaking					imspections, Les salving traits, Emarte to reap saint tollowing distance, Driver's licence, Driver six profile, Eakern drivers permit, Erisure to adhase to all road traffic rules.	5	С	٠	Mostly effective	None	NECOFOS.		and Salety Act, 1993 (Act No. 85 of 1993) NRT Act	None	On-going	NA
Weed trimmer	R	35	Diesel fumes, Saw dust	35	Respiratory diseases, eye initation		Not using PPE (dust mask and safety goggles), lack of risk assessment, lack of training.	Contractor	O&M Manager	3 monthly	LTI	Proper training ,medical surveillance, PPE (dust mask and safety goggles)	4	В		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	None	NA
	R	36	Manual handling	38	Fatigue, Back, shoulder, neck, foot injuries injuries	Health	Not taking breaks, incorrect lifting technique, failure to wear proper PPE, burns	Contractor	O&M Manager	3 monthly	LTI	Training, toolbox talks, taking breaks, eye protection, dust mask, hard hat, overalls, safety apron	4	В		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) GSR Section 2	None	None	NA
	R	37	Vibration	37	Musculosketal		Operation of the machine, maintanance/cleaning of the machine, lack of supervision, lack of training,	Contractor	O&M Manager	3 monthly	Medical	Rotation of operator, training, medical surveillances	3	В		Fully	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	38	Noise	38	NHL, trittus	Health	No training, failure to wear PPE (ear protection)	Contractor	O&M Manager	3 monthly	Medical	Training, Medical Surveillance Measurements, Noise Surveys, PPE(ear protection)	3	В		Fully	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
Ī	R	39	Flying Dabris	39	Cuts, bruises, particles could get into the eye		Incorrect operation of the machine, not using PPE (eye protection, safety gloves), lack of machine guarding	Contractor	O&M Manager	3 monthly	First Aid	Machine guarding, toolbox talks, PPE (eye protection, safety gloves)	2	С		Fully	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) GSR Sec 2	None	None	NA
Erecting and dismantling scaffold	R	40	Awkward Position, Heavy equipment	40	Scalfold could fall onto employees, Work- Related Upper Limb Disorder (WRULD)		Incorrect lifting technique, lack of continuous risk assessment, lack of training	Employees/contractors	O&M Manager	18 Monthly	Faculty	Continuous risk assessment, two man rule, toolbox talks, training, scaffolding erector appointment.	5	A	п	Fully	None	Incident records, inspections	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 Section 8 and 14	None	None	NA
Working with batteries	R	41	Acid	41	Burns, explosions, respiratory related discomforts	Health	Explosive furnes build up, not using correct PPE (Rubber safety gloves, acid- repellant overalls, apror, face shield, dust mask), Lack of continous risk assessment	Employees	O & M Manager	Monthly	LTI	Fine edinguisher, permit to work system, risk assessment, Eye safety shower, PPE (Rubber safety gloves, acid-repetiant overalls, apron, face shield, dust mask). Test both safety showers if they work before working in the buttery room.	4	В		Fully effective	None	Incident records, inspections	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R			43	Get stucked or trapped inside, unconsciousness, trauma, Body parts could get caught between lift doors		Faulty lifts, lack of maintainance, rushing into the lift without checking doors	Employees / contractors	O&M Manager	Daily, 2hrs	LTI	Service, routine inspections, EAP, Ensure to check doors are properly opened before entering	4	С	- 1	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
Use of lifts		43	Lifts	44		,	Using a wrong technique to keep the lift door open	, ,,	O&M Manager	Daily, 2hrs	First Aid	Awarreness training	2	В	IV	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	44	Floods	45	Drowning, triuma, production loss, damage to property	Safety	Plant failure, system/equipment failure, adverse weather conditions(heavy rains)	Employees / contractors	O&M Manager	Upon Occurrence	Fatalities	Emergency plan/preparedness, risk assessment, emergency drill routines	6	А	- 1	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	45	Bomb threat	46	Explosions,trauma	Safety	Unknown, terrorist attack	Employees / contractors/Security guards	O&M Manager	Upon Occurrence	Fatalities	Emergency plan/preparedness, risk assessment, emergency drill routines, configency plans	6	А	- 1	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	к	46	Community riots/ Civil unrest	47	Injuries, Demage to property		Unsatisfied customers (Delays in responding to faults, re-occurance of similar faults and any other motives, load shedding)	Employees / contractors/Security guards	O&M Manager	Upon Occurrence	Medical	Emergency plan/preparedness, risk assessment, emergency drill routines,corrigency plans, Contact SAPS	3	С	п	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) 32-123	None	None	NA
Daily general tasks performed in the plant.	R	47	Explosions	48	Property damage, injuries	Safety	fuel tanks, batteries exploding, plant failure, human error	Employees / contractors/Security guards	O&M Manager	Upon Occurrence	Fatalities	Emergency plan/preparedness, risk assessment, emergency drill routines, contigency plans	6	A		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	48	Blackouts/Loss of power supply	49	Property damage, civil unrest, injuries	Safety	power supply, cable theft	Employees / contractors/Security guards	O&M Manager	Upon Occurrence	Medical	Emergency plan procedural/preparedness, risk assessment, emergency drill routines, cortigency plans, emergency lighting, stand-by dissell generator, battery power supply	3	С	п	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	40	Hostage situations	50	Injuries, Demage to premises	Safety	Unknown, load shedding	Employees / contractora/Security guards	O&M Manager	Years to decades	LTI	Emergency plan procedure/preparedness, risk assessment, emergency drill routines, contigency plans, Consect SAPS	4	В	п	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	50	rise	51	Smoke inhalation, burns		Poor houselesping, combusible materials kept with fuel where there is oxygen, oily rags stored close to heat envir	Employees / contractors/Security guards	O&M Manager	Years to decades	LII	Emergency plan procedure/preparedress, risk assessment, emergency drill routines, contigency plans, fine extinguishers, fine hydrants, smoke detectors	4	В		Fully	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	51	slippery/wet floors	52	Slip,trip, and falls		Leaks	Employees	O&M Manager	Daily, 2hrs	Medical	Toolbox talk,be aware of your surroundings, cleaning. PPE (safety boots), wet floor signages, barricading where possible	3	В		Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
	R	52	Ergonomics	53	Twisting,bending	Health	Checking for leaks under equipment, poor ergonomics	Employees	O&M Manager	Daily, 2hrs	LTI	Toolbox talk,be aware of your surroundings, practice good ergonomic techniques	4	С	1	Fully effective	None	Incident records	O&M Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	None	NA
Perfoming daily plant checks	R	53	Noise	54	NHL, fridus		Operation of the plant(Pumping, generation)	Employees	O&M Manager	Daily, 2hrs	Medical	NIHL awarenesses, toolbox talks, Noise surveys, PPE (ear protection), noise safety signage	3	С		Fully effective	None	Incident records, medical surveillance, surveys		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 section 8 and 14, NHL regulations 3, 4, 5, 6, 7 and 8	None	None	NA
Exposure to COVID-19 in the reception area, operating room, station area, office space, kitchen & ablution facilities	R		COVID-19 Exposure	55	III- health of employseo, Fatality		Contact with people who might be exposed to COVID-19 or touching of surfaces	Employees/Contractors	Busines Enablement Manager	Daily-Shrs	Psychlogical stress, acute respiratory distress syndrome(ARDS), it can negatively affect other organs like, the heart, brain, kidney and permanent lung damage or fibrosis		5	С		Mostly	Direct printing to be implemented	report	Compliance Officer	Disseter Management Act No. 57 of 2003 & OHS Act 85 of 1995	None	None	NA
Alcohol test	R		most siles are using alcohol testing instruments and these instruments pose a risk to cross contamination with a previous infected user and to the person	56	Cross contamination through: touching or inhaling where an infected person droplets fell or touching contaminated surface, not viscoinated	Health	Employees, Visitors, Contractors	Employees, Visitors, Contractors	Covid-19 Manager, Compliance Officer, Security Personnel	Daily	Fatality or Hospitalisation	Use disposable strees. Wipe the tester after every individual his tested. Used straws to be clasified as health care itals, waste and dispose accordingly	5	С		Mostly	Managers and super-laces to be conversant with the Edition Management of Substance Abuse in the Workplace Procedure to ensure the well-being and safety of all persons at our siles.	19 Compliance checkfat	O&M Manager& COVID-19 Compliance Officer	Disaster Management Act No. 57 of 2003 & OHS Act 85 of 1996	None	None	NA
Operational or Station Activities	R	55	Psychosocial factors	56	Suicide, Stress, Depression , Bullying, Harrassment	Health	Divorce, Work Pressure, Personal Problems, Fanancial Issues, Loss of Invedices	Employees, contractors, Visitors, Suppliers	O&M Manager	Daily for 8 hours	Fatality, Injuries, Poor work performance	Eskom Assistant Program	4	В		Mostly effective	Training and awareness, employee engagement	Incident Analysis	O&M Manager	ISO 45001	44805	Ongoing	NA