Business / Operating unit: Drakensberg Pumped Storage Scheme					Department / A	rea: Trans	sformer Hall		Occupation	al Health and	Safety Baseline	Risk Assessi	ment						Next Review Date (every 2	2 years):	1	Templa	Template identifier: 240-70044602							
Date:	01-Mar-22																			Document id	24/03/01			240-700-44002						
1-1-1111				1	Prepared by	Sthemi	Mbanjwa, Ritta Zimu, bile Rahlao, Zandile a, Zama Mkhize,			Authorised by:	Name: Designation:	Maremane To Plant Manage see 'revision'	sotetsi er worksheet for signature	}						Documentia	entiner.	Revisi	Rev: 8 evision number: 1 Revision date: 31-May-24							
				Phumlani Ntombela, Andro Van Tonder, Jeff Phungula, Steven Malatsi, Kwanele Nkosi, Tholisile Mijlio, Sifiso Diamini, Sinbamandia Kuepnae, Charles																										
						Siphan	e Mjilo, Sifiso Dlamini, nandla Kuenene, Charles e. Mukesh Goorhoo																							
List activity	Activity type (Routine/Non-	Hazard nr	Hazard Identification	Risk Nr	Associated risk	Risk type	Refer t	OCcupational Health and OHS opportunities	Safety Risk ass Exposed group/ employees		ure 32-520 Exposure patterns	What are the possible	Existing Controls					Additional Controls or Tasks Aimed at improving Existing Controls	Monitoring Mechanisms	Control Owner										
	routine)											consequences?						Controls			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	Indicate R or N 1. Routine	#	Anything with potential to cause of harm.	#	A chance that injury, ill health o	Safety or health	What causes the risk to come into effect?	OH&S opportunities that can enhance OH&S performance and	Who is exposed to the hazard i.e.	accountable for	The frequency and duration the	Consider the worse case	Include: - Preventative Controls				RCE Risk Control	Include: - Preventative Controls	How we know if we are succeeding. Include	Person allocated the										
to be used, the personnel involved in the task.	activities and situations create hazards through day-to-day operations and		Note: A hazard can pose more than one risk.		damage could occur as a result o uncontrolled hazard.	of		lead to hazard elimination and risk reduction.	visitors, members of the public, etc.	making sure the controls and monitors are: - in place,	person/group is exposed to the hazard e.g. Daily for 3 hrs.	scenario without controls?	(controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and			Rating	Effectiveness	(controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and	comments on effectiveness.  This may include i.e. measurements, inspections, supervision where necessary.	responsibility for implementing the agreed controls										
	normal work activities; 2. Non-routine									implemented,     regularly reviewed for effectiveness.			<ul> <li>Reactive Controls         (controls implemented to reduce the immediate impact of the risk occurring)     </li> </ul>	8		k Priority R		Reactive Controls. (controls implemented to reduce the immediate impact of the risk occurring)		controls	Where relevant,	Once a date		Where applicable, add						
	activities and situations are occasional or unplanned;												Elimination Substitution Engineering controls Administrative controls	Consequen	Likelihood	Ris		Elimination Substitution Engineering controls			legislative and or Eskom requirements that prescribe	has been agreed to, this can not be changed	Pending, In Progress, Complete	IRM system reference number for tracking of						
													Personal protective equipment (PPE)					Administrative controls Personal protective equipment (PPE) NB: The risk shall be evaluated, assessed and rated again			the control.			treatment actions.						
																		assessed and rated again once additional controls have been implemented.												
	N	1	Noise	1	Noise Induced hearing loss	Health	High noise level from running units	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	Daily for 2 hrs	LTI	Wearing hearing protection, signage, awareness	4	2	III	F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993	None	Complete	None						
																					(Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations									
		2	Ascending or Descending stairs	1	Falling from stair case	Safety	Missing or misjudging steps	None	Employee/ Contractor/ Visitors	Supervisor/ Manager	Daily for 2 hrs	LTI	Use of handrails, 3 point contact, STAR principle & signage	4	2	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993	None	Complete	None						
																					(Act No. 85 of 1993) - GN R1031 -GSR, 1986									
		3	Use of cat ladders	1	Falling from heigh	t Safety	Losing balance/slipping	Working at heights rescue training	Employees/Contr actors	Supervisor/ Manager	Weekly, 1hr	LTI	Working at heights training, two man rule, hook up at heights	4	В	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None						
Working/Inspections , walking, climbing stairs and climbing cat ladders in the transformer hall																					1993) - GN R1031 -GSR, 1986									
	R	1	Earth straps routed on the floor	1	Trip and fall	Safety	Trip from earth straps	None	Employees/ Contractors	Supervisor/ Manager	Daily for 20 minutes	Medical	Demarcation	3	В		F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None						
																					1993 - National Bulding Regulations and Building Standards Act									
	R	1	Working at heights	1	Falling from heigh	t Safety	Missing a step while climbing up	Working at heights rescue training	Employees/	Supervisor/	18 monthly, 3 days	LTI	Working at heights training,	4	В		F	Task specific risk assessment	Behavioural safety	Supervisor/	103 of 1977	None	Complete	None						
		ľ	Trong at raight	ĺ	raining item magn	Callety	or down, Not hooked up at height, Equipment failing while climbing up or down	Working at ranging reacted daming	Contractors	Manager	To monthly, o days		Hook up at height, Scaffold/ladder training, inspections, safety clearance for working at heights	,				Than appoint the manuality	observations, inspections	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) - GN	NOTE:	Compute	None						
		2	Working with live circuits	1	Electrocution	Safety	Contact with live circuits	None	Employees/	Supervisor/	18 monthly, 3 days	Fatality	Work Permit, isolations, test	5	В	II	F	Task specific risk assessment	Access control, Behavioural	Supervisor/	R1031 -GSR, 1986 Occupational	None	Complete	None						
									Contractors	Manager			before touch, follow correct procedure, barricade work area						safety observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant									
		3	Slippery surface white changing the oil	1	Slipping and falling	g Safety	Oil dripping during oil transfer	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 3 days	First Aid	Use of containers to contain dripping oil	2	В	IV	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Safety Regulations Occupational Health and	None	Complete	None						
																					Safety Act, 1993 (Act No. 85 of 1993 - National Bulding									
																					Regulations and Building Standards Act 103 of 1977									
		4	Test equipment and cables on the floor	1	Tripping and falling	Safety	Test equipment and cables on the walkway	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 3 days	First Aid	Barricading	2	В	IV	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993	None	Complete	None						
																					(Act No. 85 of 1993 - Environmental regulation of									
																					Workplaces, 1987&Facilities Regulations, 2004& National									
																					Bulding Regulations and Building Standards Act									
		5	Carrying heavy equipment	1	Back injury	Health	Incorrect position while lifting	Ergonomics risk assessment to	Employees/	Supervisor/	18 monthly, 3 days	LTI	Use of trolleys, following the	4	В	III	F	Task specific risk assessment	Behavioural safety	Supervisor/	103 of 1977 Basic Conditions	None	Complete	None						
								be done	Contractors	Manager			correct procedure for lifting						observations	Manager	of Employment Act & Occupational Health and									
																					Safety Act, 1993 (Act No. 85 of 1993; GN R1031 GSR 1986; Excities									
		6	Bunded area	1	Tripping and falling	Safety	Misjudging the height of the bund	None	Employees/	Supervisor/	18 monthly, 3 days	Medical	Risk assessment	3	В		E	Task specific risk assessment	Rehavioural safety	Supervisor/	Facilities Regulation 2004 Occupational	None	Complete	None						
				ĺ	Tripping and alling	Junety	wall		Employees/ Contractors	Manager	to morally, o days	medical.							observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993 -		oompiete	110110						
																					Environmental regulation of Workplaces, 1987&Facilities									
																					Regulations, 2004& National Bulding Regulations and									
Transformer maintenance																					Building Standards Act 103 of 1977									
	R	1	Silica gel	1	Skin contact	Safety	Improper handling	None	Employees/ Contractors	Supervisor/ Manager	Quarterly, 1 hr	Medical	PPE, use of SDS	3	В		F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993.	None	Complete	None						
Silica gel replacement	R	1	Working with oil	1	Coming into contact with oil	Safety	Inappropriate operation of sampling valves	None	Employees/ Contractors	Supervisor/ Manager	6 monthly, 8 hrs	Medical	PPE, oil sampling training	3	В	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993	None	Complete	None						
<u>Oil Sampling</u>	R	1	Working at heights	1	Falling from heigh	t Safety	Missing a step while climbing up or down, Not hooked up at height,	Working at heights rescue training	Employees	Supervisor/ Manager	Quarterly, 1 hr	LTI	Working at heights training, Hook up at height,	4	В		F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	(Act No. 85 of 1993 Occupational Health and	None	Complete	None						
							Equipment failing while climbing up or down						Scaffold/ladder training, inspections, safety clearance for working at heights								Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986									
		2	Working on live circuits	1	Electric shock	Safety	Contact	None	Employees	Supervisor/ Manager	Monthly, 1hr	LTI	Isolation, test before touch	4	В		F	Task specific risk assessment	Behavioural safety observations, training records	Supervisor/ Manager	Occupational Health and Safety Act, 1993	None	Complete	None						
Lighting maintenance																					(Act No. 85 of 1993) & Plant Safety Regulations									
Cigniting maintenance	N	1	Position of the rigger	1	Inadvertent movement of the load	Safety	Poor coordination between the crane driver and the rigger	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8 hrs	LTI	Rigging Training, crane inspections	4	В	III	F	Task specific risk assessment, Declaration of fitness	Inspections, training records,OE's and Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None						
																					1993; GN R84 Construction Regulation 2014; Driven									
																					Machinery Regulation 2015									
		2	Poor condition of the lifting equipment	1	Load falling	Safety	Lifting equipment failure	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8 hrs	LTI	Load testing, inspections, use of correct lifting methods	4	В		F	Task specific risk assessment	Inspections, training records,OE's and Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None						
																					1993; GN R84 Construction Regulation 2014: Driven									
		2	Poor Communication with		Inadvertent	Cofety	Poor coordination between the	None	Employees/	Supervisor/	18 monthly, 8 hrs	LT.	Planing Training Authorised	4	P		-	Task specific risk	Behavioural safety	Supervisor/	Machinery Regulation 2015	Mono	Complete	None						
			Poor Communication with crane driver		movement of the load	Safety	Poor coordination between the crane driver and the rigger		Employees/ Contractors	Supervisor/ Manager			Rigging Training, Authorised riggers					lask specific risk assessment, Use of two way radios when required	behavioural safety observations	Manager Manager	Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84		presed	None						
																					Construction Regulation 2014; Driven Machinery									
Rigging and lifting	R	1	Live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees/	Supervisor/	18 monthly, 8hrs	LTI	Arc Flash PPE, Permit to work,	4	В	III	F	Task specific risk assessment	Safety behavioural	Supervisor/	Regulation 2015 Occupational	None	Complete	None						
									Contractors	Manager			test before touch, Follow correct procedure						observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety									
		2	Working with electrical cleaner	1	Contact with the	Safety	Chemical splash	None	Employees/	Supervisor/	18 monthly, 8hrs	Medical	PPE, following the correct	3	В	III	F	Task specific risk assessment	Safety behavioural	Supervisor/	Regulations	None	Complete	None						
					chemical				Contractors	Manager			procedure, Consult SDS						observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993									
				2	Inhaling fumes	Health	Chemical fumes	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	Medical	Wearing of the respirator, following the correct procedure, Consult SDS	3	В		F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None						
Marshalling kiosk maintenance	R	1	Foam	1	Coming into contact with foam	Safety	Malfunctioning of the system	None	Employees	Supervisor/ Manager	Yearly for 4 hours	First Aid	Use of SDS	2	В	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act. 1993	None	Complete	None						
		2	Water spraying on live	1	Electrocution	Safety	Incorrect operation of valves	None	Employees	Supervisor/ Manager	Yearly for 4 hours	Fatality	Isolation	5	В		F	Task specific risk assessment		Supervisor/ Manager	(Act No. 85 of 1993	None	Complete	To be registered on IRM						
			Water spraying on live conductors/circuits causing a short circuit							Manager									observations	manager	Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety			OH IROM						
Fire system - testing and maintena	R	1	SF6 ducting	1	Bumping against ducting	Safety	Space constraints	Ergonomics risk assessment to be done	Employees/ Contractors	Supervisor/ Manager	52 weekly for 5 hours	First Aid	Risk Assessment & 2-Man rule	2	В	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Safety Regulations Occupational Health and Safety Act, 1993	None	Complete	None						
		2	Working with live circuits	1	Electrocution	Safety	Contact with live circuits	None		Supervisor/	52 weekly for 5 hours	LTI	Arc Flash PPE, Permit to work	4	В		F	Task specific risk assessment	Safety behavioural	Supervisor/	(Act No. 85 of 1993 Occupational	None	Complete	None						
						/			Employees/ Contractors	Manager	, 110419		Arc Flash PPE, Permit to work, test before touch, Follow correct procedure						observations	Supervisor/ Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant									
		3	Working with electrical cleaner	1	Contact with the	Safety	Chemical splash	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	Medical	PPE, following the correct procedure, Consult SDS	3	В		F	Task specific risk assessment	Safety behavioural	Supervisor/ Manager	Safety Regulations Occupational Health and	None	Complete	None						
					and the distance of the same o		Observation				40								_outer value is		Safety Act, 1993 (Act No. 85 of 1993			N						
2004				_	Inhaling fumes	Health	Chemical fumes	rvone	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	Medical	Wearing of the respirator, following the correct procedure, Consult SDS	3	la la		_	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Complete	None						
380V Non-essential 3A&3B boards						1		ı	1					1	_					1	1	-								

R	1	Live	circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees	Supervisor/ Manager	Six monthly, 8hrs	LTI	Permit to work, test before touch	4 B	·	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant	None	Complete	None
Maintenance of DB's	1	Live	circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees	Supervisor/ Manager	Six monthly, 8hrs	LTI	Permit to work, test before touch	4 B		F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Safety Regulations Occupational Health and Safety Act. 1993	None	Complete	None
Maintenance of Plugs	1	Clim	tbing the stairs	1	Falling	Safety	Missing a step while climbing	None	Employees	Supervisor/ Manager	Monthly for 2 hrs	LTI	Face the stairs while climbing and use handrails	4 B	- 111	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	(Act No. 85 of 1993) & Plant Safety Regulations Occupational Health and	None	Complete	None
																				Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and			
	2	Low	ering submersible pump g the rope	1	Struck by	Safety	Slipping of the rope	None	Employees	Supervisor/ Manager	Monthly for 2 hrs	LTI	Wearing hand gloves, and risk assessment	4 B	Ш	F	Task specific risk assessment, Tie the rope around the handrails	Safety behavioural observations	Supervisor/ Manager	Building Standards Act 103 of 1077 Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
	3	Slim	ry sludge on the floor	1	Slip and fall	Safety	Muddy water	None	Employees	Supervisor/ Manager	Monthly for 2 hrs	LTI	Cleaning the floor with high pressure water	4 B		F	Task specific risk assessment	Plant inspections	Supervisor/ Manager	1993) - GN R84 Construction Regulations 2014 Occupational Health and	None	Complete	None
Draining fire pit.	1	Wor	king on portable ladders	1	Falling from heig	ht Safety	Incorrect use of the ladder	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly for 2 hours	LTI	Ladder inspection, Working at heights training, safety clearance for working at height, two man rule	4 B	·	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Safety Act, 1993 (Act No. 85 of Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
PA System testing and repairs N	1	Driv	er competency	1	Injury	Safety	Key not controlled	None	Employees	Supervisor/ Manager	Daily, 1hr	LTI	Key to be controlled by OPS	4 B		P	Key controlled using the key book	Monitor key is only issued to authorised craned drivers	Supervisor/ Manager	1993) - GN R1031 -GSR, 1986 Occupational Health and	None	Complete	None
			-	2	Damage of equipment	Safety	Incompetent person driving the crane and bumping the equipme	None nt	Employees	Supervisor/ Manager	Daily, 1hr	Cost to repair	Crane driving training and Appointment	1 C		F	Refresher training	Training records	Supervisor/ Manager	Safety Act, 1993 (Act No. 85 of 1993 Occupational Health and Safety Act, 1993	None	Complete	None
	2	Sus	pended load	1	Load falling	Safety	Crane failure, load improperly secured	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	Weekly, 8 hrs	Fatality, LTI, equipment damage	Load testing, inspections, rigging safety clearance	5 B		F	Task specific risk assessment, pre-work inspections	Load testing certificates, rigging safety clearance and inspection records	Supervisor/ Manager	(Act No. 85 of 1993 Occupational Health and Safety Act, 1993	None	Complete	To be registered on IRM
																				(Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery			
			3	2	Struck by	Safety	People around the area where crane movement is taking place	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	Weekly, 8 hrs	LTI	Crane driver and the rigger to ensure the area is safe to move the load	4 B		F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Regulation 2015  Occupational Health and Safety Act, 1993	None	Complete	None
Crane Driving																				(Act No. 85 of 1993) - GN R84 Construction Regulations 2014			
R	1	Dam	pers located in awkward	1	Trip and fall	Safety	Trip from bund walls and stairs	None	Employees/ Contractors	Supervisor/ Manager	Yearly, 4hrs	LTI	Hand rails, risk assessment, two man rule	4 B	Ш	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building	None	Complete	None
																				Bulding Regulations and Building Standards Act 103 of 1977			
	2		vertent closing of the per while working	1	Caught in between		System fault	None	Employees/ Contractors	Supervisor/ Manager	Yearly, 4hrs	Fist Aid	Risk Assessment	2 B	IV	F	Task specific risk assessment		Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Complete	None
	3	Live	circuits		Electrical shock	Safety	Contact with live circuits	None	Employees	Supervisor/ Manager	Yearly, 4hrs	LII	Permit to work, test before touch	4 B		F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	reone	Complete	rvone
	4	Wor	king at heights	1	Falling from heig	ht Safety	Incorrect use of the scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly, 4hrs	LTI	Scaffold inspection, working at heights training, safety clearance for working at height, two man rule	4 B	111	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN	None	Complete	None
Fire dampers - testing and mainter  N  Stacking and storage of spares -EN	1	Stac	ked items	1	Struck by	Safety	Struck by falling spares	None	Employees	Supervisor/ Manager	Monthly for 2 hrs	Medical	Limited access to storage areas & proper stacking and storage. Stacking and storage training	3 B	III.	F	Routine inspections, training	Inspections, training records and Behavioural safety observations	Supervisor/ Manager	R1031 -GSR, Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
Stacking and storage of spares -EN N	1	Wor	king on portable ladders	1	Falling from heig	ht Safety	Incorrect use of the ladder	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hours	LTI	Ladder inspection, working at heights training, safety clearance for working at height, two man rule	4 B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	1993) - GN R84 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN	None	Complete	None
	2	Rigg	ing	1	Struck by	Safety	incorrect rigging or rigging equipment failure	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hours	LTI	Rigging training, Safety clearance for rigging	4 B	ш	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	R1031 -GSR, 1986 Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
																				1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015			
	3	Dus	t ·	1	Inhalation of accumulated dus	Health	Accumulated dust	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hours	Medical	Wearing dust masks	3 B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
	4	Live	circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees	Supervisor/ Manager	3 Yearly for 8 hours	LTI	Permit to work, test before touch	4 B		F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	1993). National Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant	None	Complete	None
Main supply fans motor and filter	1	Wor	king with live circuits	1	Electrocution	Safety	Contact with live circuits	None	Employees/ Contractors	Supervisor/ Manager	52 weekly for 5 hours	LTI	Arc Flash PPE, Permit to work, test before touch, Follow correct procedure	4 B	· III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Safety Regulations Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
	2	Wor	king with electrical cleaner	1	Contact with the chemical	Safety	Chemical splash	None	Employees/ Contractors	Supervisor/ Manager	52 weekly for 5 hours	Medical	PPE, following the correct procedure, Consult SDS	3 B		F	Task specific risk assessment	Safety behavioural observations		(Act No. 85 of 1993) & Plant Safety Regulations Occupational Health and	None	Complete	None
			3	2	Inhaling fumes	Health	Chemical fumes	None	Employees/ Contractors	Supervisor/ Manager	52 weekly for 5 hours	Medical	Wearing of the respirator, following the correct procedure, Consult SDS	3 B	ш	F	Task specific risk assessment		Supervisor/ Manager	Safety Act, 1993 (Act No. 85 of 1993 Occupational Health and	None	Complete	None
380V Chiller plant board maintena	1	Wor	king with live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 5 hours	LTI	Consult SDS  Arc Flash PPE, PTW, test before touch, Follow correct procedure	4 B	- 111	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Safety Act, 1993 (Act No. 85 of 1993 Occupational Health and Safety Act, 1993	None	Complete	None
Adit H vent board fault finding	1	Wor	king with live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees	Supervisor/	2 Yearly for 2 hrs	LTI	Permit to work, test before touch	4 B	iii	F	Task specific risk assessment		Supervisor/	(Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	None
Common service supplies and alar										Manager								observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations			
Common service supplies and alar	1	Aco	ess	1	Tripping and Fall	ing Safety	Bunded area and pipe work	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Risk assessment	4 B		F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 -	None	Complete	None
																				Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National			
																				Bulding Regulations and Building Standards Act 103 of 1977			
	2	Liftin	ng and rigging	1	Struck by, caugh in between	t Safety	Incorrect rigging method	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Rigging training	4 B		F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction	None	Complete	None
											40		2							Regulation 2014; Driven Machinery Regulation 2015		0	None
Floatsical	3	Wor	king with live circuits	'	Electrical shock	Safety	Contact with live circuits	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LII	Permit to work, isolation, test before touch	4 B		(F	Task specific risk assessment	observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety	none	Complete	reone
Electrical motors maintenance N	1	Wor	king on portable ladders	1	Falling from heig	ht Safety	Incorrect use of the ladder	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly for 2 hours	LTI	Ladder inspection, working at heights training, safety clearance for working at height, two man rule	4 B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Regulations Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN	None	Complete	None
	2	Carr	ying valves using the ladder	1	Struck by	Safety	Incorrect handling of the valves	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 2 hours	LTI	Training, two man rule, permit to work	4 B	· III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	R1031 -GSR, 1986 Occupational Health and Safety Act, 1993 (Act No. 85 of	None	Complete	None
																				1993) - GN R84 Construction Regulations 2014			
	3	Wat	er pipes under pressure	1	Contact with wat under pressure	er Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 2 hours	Medical	Risk assessment, Permit to work, PPE ,	3 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R734 Pressure Equipment	None	Complete	None
CW motorised control valves remo	1	Rigg	ging	1	Struck by	Safety	Equipment failure	None	Employees	Supervisor/ Manager	5 yearly for 5 hours	LTI	Rigging training, Risk assessment, PPE	4 B	-	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Equipment Regulation,2009 Occupational Health and Safety Act, 1993	None	Complete	None
																				(Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven			
Fire strainer removal and installati	1	Rigg	ging	1	Struck by	Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	LTI	Rigging training, Risk assessment, PPE	4 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Machinery Regulation 2015 Occupational Health and Safety Act. 1993	None	Complete	None
																				Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery			
	2	Pur	p under pressure	1	Contact with wat under pressure	er Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	Medical	Risk assessment, Permit to work, PPE	3 B	-	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Machinery Regulation 2015 Occupational Health and Safety Act, 1993	None	Complete	None
Pumps maintenance																				(Act No. 85 of 1993 - GN R734 Pressure Equipment Regulation,2009			
N	1	Rigg	ing	1	Struck by	Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	LTI	Rigging training, Risk assessment, PPE	4 B	Ш	F	Task specific risk assessment	Behavioural safety observations		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction	None	Complete	None
																				Regulation 2014; Driven Machinery Regulation 2015			
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		Valve under pressure 1	1 4	Contact with water under pressure	Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	Medical	Risk assessment, Permit to work, PPE	3	В	II F	Ī	ask specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R734 Pressure Equipment Regulation,2009	None (	Complete	None
Valves maintenance	3	Use of tools when removing the 1 valve		Spanner slipping and hurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	Medical	Risk assessment and PPE	3	В	II F	T	ask specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None (	Complete	None
R	1	Working at heights 1				up or down	None	Employees/ Contractors	Supervisor/ Manager	Yearly, 8hrs	LTI	STAR, Risk assessment	4	В	II F		ask specific risk assessment	observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None (		None
	2	Handling of heavy containers 1		Body muscle sprain/strain	Health	Lifting heavy containers	be done	Employees/ Contractors	Supervisor/ Manager	Yearly, 8hrs	Medical	Two man rule	3	В	II F	T a	ask specific risk assessment d taking body breaks	Behavioural safety observations	Supervisor/ Manager	Basic Conditions of Employment Act & Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 GSR 1986; Facilities Regulation 2004	None (	Complete	None
Inspection and topping up foam ta	3	Foam 1		Contact with foam	Health	Eye/skin irritation and inhalation	None	Employees/ Contractors	Supervisor/ Manager	Yearly, 8hrs	Medical	Wearing of safety glasses, gloves	3	В	I F	Т	ask specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None (	Complete	None
N N	1	Opening and closing valves under gratings or floor plates		Struck by or struck against	Safety	Plant design layout	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Risk assessment	4	В	II F	Т	o develop a local instruction	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993	None (	Complete	None
		2	2 (		Safety	Limited space	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Risk assessment	4	В	I F			Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1998& GN R85 Construction	None (	Complete	None
	2	Access 1		Tripping and Falling		Slippery surface, not applying three point contact		Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Apply three point contact, risk assessment	4	В	II F		ask specific risk assessment	observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1967 8F acilities Regulations, 20048 National Bulding Regulations and Bulding Standards Act 103 of 1977	None (		None
	3	Poor lighting 1		Tripping and Falling, struck against	Safety	Poor visibility	None	Employees	Supervisor/ Manager	Quarterly, 1hr	Medical	Use of torches	3	В	II F		ask specific risk assessment	observations		Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Butding Regulations and Building Standards Act	None (	Complete	None
	4	Working at heights 1		Falling from height	Safety	Incorrect use of ladder	Working at heights rescue training	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Working at heights training, Ladder inspections and safety clearance for working at heights	4	В	II F	ľ	ask specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 - GSR, 1988	None (	Complete	None
	5	Isolating/de-isolating electrical 1 supplies		Electric shock	Safety	Contact	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Isolation, test before touch	4	В	II F	T	ask specific risk assessment	Behavioural safety observations, training records	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of	None (	Complete	None
Isolations or de-isolations	6	Opening and closing valves 1		Body muscle sprain/strain		operating mechanically tight valves	None	Employees	Supervisor/ Manager	<i>,</i> ,	Medical	Two man rule	3	В	ll F		ask specific risk assessment	observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None (		None
R  Testing of Fire Detectors	1	Working at heights 1		Falling from height	Safety	Missing a step while climbing up or down	Working at heights rescue training	Employees	Supervisor/ Manager	5 Weekly for 1 hr	LTI	Ladder training, inspections, safety clearance for working at heights	4	В	F	T	ask specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None (	Complete	None