

Business / Operating unit: Drakensberg Pumped Storage Scheme				Department / Area: Transformer Hall										Next Review Date (every 2 years): 24/03/01				Template identifier: 240-70044602							
Date: 01-Mar-22				Prepared by: Phillie Mbanjwa, Ritta Zimu, Sthembile Rahlaq, Zandile Mrukwa, Zama Mkhize, Phumtani Ntombela, Andre Van Tonder, Jeff Phungula, Steven Malatsi, Kwanele Nkosi, Tholaisile Mjilo, Sifiso Dlamini, Siphamandla Kuenene, Charles Wemecwa, Mukesh Gooroo										Document identifier: 31A/2812 Rev: 8				Revision number: 1 Revision date: 31-May-24							
				Authorised by: Name: <u>Maremane Tsotetsi</u> Designation: <u>Plant Manager</u> <small>see Revision worksheet for signature</small>																					
Refer to Occupational Health and Safety Risk assessment procedure 32-520																									
List activity	Activity type (Routine/Non-routine)	Hazard nr	Hazard identification	Risk Nr	Associated risk	Risk type	Cause(s) of the risk	OH&S opportunities	Exposed group/ employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls					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?	OH&S opportunities that can enhance OH&S performance and lead to hazard elimination and risk reduction.	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) NB: The risk shall be evaluated, assessed and rated again once additional controls have been implemented.	Consequence	Likelihood	Risk Priority Rating	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.	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	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	Pending, In Progress, Complete	Where applicable, add IRM system reference number for tracking of treatment actions.		
Working/inspections, walking, climbing stairs and climbing cat ladders in the transformer hall.	N	1	Noise	1	Noise Induced hearing loss	Health	High noise level from running units	None	Employee/ 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 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None	Complete	None	
		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 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None	
		3	Use of cat ladders	1	Falling from height	Safety	Losing balance/slipping	Working at heights rescue training	Employee/Contrt actors	Supervisor/ Manager	Weekly, 1hr	LTI	Working at heights training, two man rule, hook up at heights	4	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None	
	R	1	Earth straps routed on the floor	1	Tripping and fall	Safety	Tripping from earth straps	None	Employee/ Contractors	Supervisor/ Manager	Daily for 20 minutes	Medical	Demarcation	3	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - National Building Regulations and Building Standards Act 103 of 1977	None	Complete	None	
Transformer maintenance.	R	1	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down, Not hooked up at height, Equipment falling while climbing up or down	Working at heights rescue training	Employee/ Contractors	Supervisor/ Manager	18 monthly, 3 days	LTI	Working at heights training, Hook up at height, Scaffold/ladder training, inspections, safety clearance for working at heights	4	B	III	F	Task 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	
		2	Working with live circuits	1	Electrocution	Safety	Contact with live circuits	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 3 days	Fatality	Work Permit, isolations, test before touch, follow correct procedure, barricade work area	5	B	II	F	Task specific risk assessment	Access control, Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	None	
		3	Slippery surface while changing the oil	1	Slipping and falling	Safety	Oil dripping during oil transfer	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 3 days	First Aid	Use of containers to contain dripping oil	2	B	IV	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - National Building Regulations and Building Standards Act 103 of 1977	None	Complete	None	
		4	Test equipment and cables on the floor	1	Tripping and falling	Safety	Test equipment and cables on the walkway	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 3 days	First Aid	Barricading	2	B	IV	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Building Regulations and Building Standards Act 103 of 1977	None	Complete	None	
		5	Carrying heavy equipment	1	Back injury	Health	Incorrect position while lifting	Ergonomics risk assessment to be done	Employee/ Contractors	Supervisor/ Manager	18 monthly, 3 days	LTI	Use of trolleys, following the correct procedure for lifting	4	B	III	F	Task specific risk assessment	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	
		6	Bunded area	1	Tripping and falling	Safety	Misjudging the height of the bund wall	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 3 days	Medical	Risk assessment	3	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Building Regulations and Building Standards Act 103 of 1977	None	Complete	None	
Silica gel replacement	R	1	Silica gel	1	Skin contact	Safety	Improper handling	None	Employee/ Contractors	Supervisor/ Manager	Quarterly, 1 hr	Medical	PPE, use of SDS	3	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
Oil Sampling	R	1	Working with oil	1	Coming into contact with oil	Safety	Inappropriate operation of sampling valves	None	Employee/ Contractors	Supervisor/ Manager	6 monthly, 6 hrs	Medical	PPE, oil sampling training	3	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
Lighting maintenance.	R	1	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down, Not hooked up at height, Equipment falling while climbing up or down	Working at heights rescue training	Employee/ s	Supervisor/ Manager	Quarterly, 1 hr	LTI	Working at heights training, Hook up at height, Scaffold/ladder training, inspections, safety clearance for working at heights	4	B	III	F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None	
		2	Working on live circuits	1	Electric shock	Safety	Contact	None	Employee/ s	Supervisor/ Manager	Monthly, 1hr	LTI	Isolation, test before touch	4	B	III	F	Task specific risk assessment	Behavioural safety observations, training records	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	None	
Rigging and lifting	N	1	Position of the rigger	1	Inadvertent movement of the load	Safety	Poor coordination between the crane driver and the rigger	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6 hrs	LTI	Rigging Training, crane inspections	4	B	III	F	Task specific risk assessment, Declaration of fitness	Inspections, training records, OEs and Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993, GN R84 Construction Regulation 2014, Driven Machinery Regulation 2015	None	Complete	None	
		2	Poor condition of the lifting equipment	1	Load falling	Safety	Lifting equipment failure	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6 hrs	LTI	Load testing, inspections, use of correct lifting methods	4	B	III	F	Task specific risk assessment	Inspections, training records, OEs and Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993, GN R84 Construction Regulation 2014, Driven Machinery Regulation 2015	None	Complete	None	
		3	Poor Communication with crane driver	1	Inadvertent movement of the load	Safety	Poor coordination between the crane driver and the rigger	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6 hrs	LTI	Rigging Training, Authorised riggers	4	B	III	F	Task specific risk assessment, Use of two way radios when required	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993, GN R84 Construction Regulation 2014, Driven Machinery Regulation 2015	None	Complete	None	
Rigging and lifting	R	1	Live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6hrs	LTI	Air Flash PPE, Permit to work, test before touch, Follow correct procedure	4	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	None	
		2	Working with electrical cleaner	1	Contact with the chemical	Safety	Chemical splash	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6hrs	Medical	PPE, following the correct procedure, Consult SDS	3	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
		2	Inhaling fumes	Health	Chemical fumes	Health	Chemical fumes	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6hrs	Medical	Wearing of the respirator, following the correct procedure, Consult SDS	3	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
Marshalling kiosk maintenance.	R	1	Foam	1	Coming into contact with foam	Safety	Malfunctioning of the system	None	Employee/ s	Supervisor/ Manager	Yearly for 4 hours	First Aid	Use of SDS	2	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
Fire system - testing and maintenance		2	Water spraying on live conductors/cables causing a short circuit	1	Electrocution	Safety	Incorrect operation of valves	None	Employee/ s	Supervisor/ Manager	Yearly for 4 hours	Fatality	Isolation	5	B	II	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	To be registered on IRM	
	R	1	SFB ducting	1	Bumping against ducting	Safety	Space constraints	Ergonomics risk assessment to be done	Employee/ Contractors	Supervisor/ Manager	52 weekly for 5 hours	First Aid	Risk Assessment & 2-Man rule	2	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
		2	Working with live circuits	1	Electrocution	Safety	Contact with live circuits	None	Employee/ Contractors	Supervisor/ Manager	52 weekly for 5 hours	LTI	Air Flash PPE, Permit to work, test before touch, Follow correct procedure	4	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	None	
380V Non-essential 3A&3B boards		3	Working with electrical cleaner	1	Contact with the chemical	Safety	Chemical splash	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6hrs	Medical	PPE, following the correct procedure, Consult SDS	3	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	
		2	Inhaling fumes	Health	Chemical fumes	Health	Chemical fumes	None	Employee/ Contractors	Supervisor/ Manager	18 monthly, 6hrs	Medical	Wearing of the respirator, following the correct procedure, Consult SDS	3	B	III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None	

Maintenance of DB's

Maintenance of Plugs

Draining fire pit

PA System testing and repairs

Crane Driving

Fire dampers - testing and mainte

Stacking and storage of spares - E

Main supply fans motor and filter

380V Chiller plant board maintena

Adit H vent board fault findine

Common service supplies and alar

Electrical motors maintenance

CW motorised control valves remo

Fire strainer removal and installa

Pumps maintenance

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Valves maintenance

Inspection and topping up foam tanks

Isolations or de-isolations

Testing of Fire Detectors

	2	Valve under pressure	1	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	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 Regulation 2009	None	Complete	None
	3	Use of tools when removing the valve	1	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	B	III	F	Task 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
	1	Working at heights	1	Falling from height	Safety	Missing the step while climbing up or down	None	Employees/ Contractors	Supervisor/ Manager	Yearly, 8hrs	LTI	STAR Risk assessment	4	B	III	F	Task 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
	2	Handling of heavy containers	1	Body muscle sprain/strain	Health	Lifting heavy containers	Ergonomics risk assessment to be done	Employees/ Contractors	Supervisor/ Manager	Yearly, 8hrs	Medical	Two man rule	3	B	III	F	Task specific risk assessment and 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
	3	Foam	1	Contact with foam	Health	Eyes/skin irritation and inhalation	None	Employees/ Contractors	Supervisor/ Manager	Yearly, 8hrs	Medical	Wearing of safety glasses, gloves	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 R1031 - GSR, 1986	None	Complete	None
	1	Opening and closing valves under gratings or floor plates	1	Struck by or struck against	Safety	Plant design layout	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Risk assessment	4	B	III	F	To develop a local instruction	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1986	None	Complete	None
	2		2	Caught in between	Safety	Limited space	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Risk assessment	4	B	III	F	To develop a local instruction	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1986	None	Complete	None
	2	Access	1	Tripping and Falling	Safety	Slippery surface, not applying three point contact	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Apply three point contact, risk assessment	4	B	III	F	Task specific risk assessment	Behavioural safety observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987)Facilities Regulations, 2004& National Building Regulations and Building Standards Act 103 of 1977	None	Complete	None
	3	Poor lighting	1	Tripping and Falling, struck against	Safety	Poor visibility	None	Employees	Supervisor/ Manager	Quarterly, 1hr	Medical	Use of torches	3	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987)Facilities Regulations, 2004& National Building Regulations and Building Standards Act 103 of 1977	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	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 - GSR, 1986,	None	Complete	None
	5	Isolating/de-isolating electrical supplies	1	Electric shock	Safety	Contact	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Isolation, test before touch	4	B	III	F	Task specific risk assessment	Behavioural safety observations, training records	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None
	6	Opening and closing valves	1	Body muscle sprain/strain	Health	operating mechanically tight valves	None	Employees	Supervisor/ Manager	Quarterly, 1hr	Medical	Two man rule	3	B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Complete	None
R	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	B	III	F	Task 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