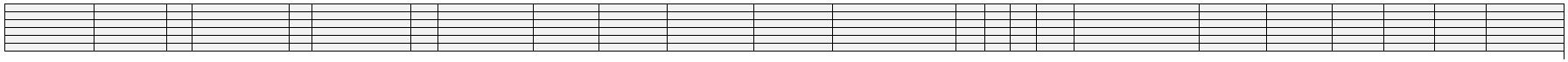
Occupational Health and Safety Baseline risk assessment template

Business/Operating unit:	**Drakensberg Pumped Storage Scheme**	**Department:**	**Drakensberg -Risk and Assurance -Safety**	**Next Review Date (every 2 years):**	**Template identifier:** 240-70044602
Date: 19/03/2026		**Prepared by:** Sibusiso Mbuyisa	**Authorised by:** Name: Nene Mkhize Designation: OHS Manager - Peeking Date: 19/03/2026	**Document identifier**	
				Revision number:	5
				Revision date:	30-Apr-27

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*	*Exposed group/employees*	*Risk Owner*	*Exposure patterns*	*What are the possible consequences?*	*Existing Controls*	*Consequence*	*Likelihood*	*Risk Priority/Ranking*	*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)** **NB:** *The risk shall be evaluated, assessed and rated again once additional controls have been implemented and those controls listed as existing controls.*				**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 controls listed as existing controls.*	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 impamenting major engineering projects as a control)*
Driving to and from site	R	1	Bad or poor road conditions with potholes, Wild animal.	1	Vehicle accident, animals crossing the road, tyre puncture	Safety	Not paying attention/ not familiar with the road conditions, making use of cell phone, driver fatigue, distractions, wild animals, Negligence and wreckless driving	Employees/ Contractors	Supervisor/ Manager	2 hours, daily	Fatality, injuries, property damage	Valid drivers license, Awareness on safe driving behaviour.	5	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	R	2	fatigue	2	Vehicle incident	Safety	Working long extended hours without adequate rest breaks Work-demand pressure	Employees/ Contractors	Supervisor/ Manager	3 hours, daily	Fatality, injuries,	Valid drivers license, Awareness on safe driving behaviour.	5	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	R	3	Over speeding of vehicles	3	Drivers losing control of vehicles leading to vehicle collision	Safety	Not adhering to speed limit by drivers, not adhering to National Road Traffic Act. Driver distracted e.g. talking on a cell phone or texting while driving.	Employees/ Contractors	Supervisor/ Manager	2 hours, daily	Fatality, injuries, property damage	Valid drivers license, Awareness on safe driving behaviour.	5	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
Working in the Plant/ Outside Plant	N	4	Noise.	4	Hearing loss from exposure to equipment noise	Health	Failure to wear correct PPE (ear plugs or ear muffs)	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Noise Induced Hearing Loss	Medical surveillance, Risk Assessment, Wearing of hearing protection (earplug/muffs)	3	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	5	Slippery surface	5	Trip/slip and fall	Safety	Lack of concentration, misjudging steps, not applying three point contact	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Medical Injuries	Training, inspection on the rescue equipment, Life jackets	3	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	6	Working on the edge of dam/ containment area	6	Fall from the edge	Safety	rescue equipments failure.	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Fatality	Training, inspection on the rescue equipment, Life jackets	5	B	II	**Fully effective**	None	Behavioural safety observations and continuous supervision	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	7	Muddy surfaces	7	Slips, trips and falls.	Safety	Floor is wet and muddy	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	LTI	Risk assessment, inspection of the area before work.	4	B	II	**Fully effective**	None	Behavioural safety observations, Plant inspections	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	8	Use of tools	8	Tool slipping and falling, sliding downstream.	Safety	Improper handling of tools	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Medical	Use tools lanyards	3	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	9	Lifting activities	9	Struck by, caught in between	Safety	Incorrect rigging, anchor points failure	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	LTI	Periodic load testing of equipment, inspection of equipment before use.	4	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	10	Manual handling of booms and barriers	10	Poor lifting technique resulting in back injuries and strain	Safety	Poor lifting technique resulting in back injuries and strain	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Fatality	Training on manual lifting of equipment, use of crane or forklift	5	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	11	Handling untreated water	11	contact with contaminated water (biological substance e.g sewer/feaces	Health	Contrating communiable diseases	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	LTI	Medical surveillance, vaccination, Risk Assessment, Wearing of protective gloves and suit	4	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	12	Boat usage	12	Boat engine failure	Safety	drifting on the dam	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	LTI	Maintenance of boat and pre trip inspection	4	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	13	Defective rescue equipments	13	People falling while being rescued resulting in drowning.	Safety	No inspection of the equipments and no life vest	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	LTI	Inspection of rescue equipments, risk assessment, direct supervision.	4	B	II	**Fully effective**	None	Behavioural safety observations	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	14	Defective slings/ ropes	14	slings/ Rope failure	Safety	No inspection record of the slings/ ropes	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Fatality	Visual inspection before usage, detailed inspection by competent person, records of inspection, task specific risk assessment, direct supervision.	5	C	II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	15	Falling of anchor points	15	People falling while being rescued	Safety	Defective achor points	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Fatality	Task specific risk assessment, competent person inspect anchor points	5	C	II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
	N	16	Failure of department of water affairs to approve in time.	16	Project delay and cost escalation	Safety	Inadequate communication Mandate not signed	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Delays	Planning and communication	5	B	II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
Working at heights	R	17	Falling from height	17	Workers could fall from elevated position and or fall from the same level	Safety	No proper guard rails around working platforms, Not using Safety harness or not hooking up, not medically fit, not trained on ladder safety/ working at heights training, Not adhering to or no fall protection plan	Employees / contractors	Supervisor/ Manager	Daily	Fatality	Safety guard rails, Medical surveillance,working at height and rescue training, induction training, toolbox talks,Risk Assessment, Work Permit,Ladder training, inspections, safety clearance for working at heights, Life saving rules, safety harness	5	B	II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
Usage of equipment	R	23	Loading and offloading operations	23	equipment tip-overs	Safety	Unstable Surfaces, Mechanical Failure	Employees/ Contractors	Supervisor/ Manager	2 hours, monthly	Fatality	Training of personnel, inspection of ground and risk assessment, usage of vehicle stabalization equipment	5	C	II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
				24	crush injuries	Safety	moving machinery	Employees/ Contractors	Supervisor/ Manager	2 hours, monthly	Fatality	Barricade, warning signage, strict traffic and movements near working area control	5	C	II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None

	R	24	Noise.	25	Hearing loss from exposure to equipment noise	Health	Failure to wear correct PPE (ear plugs or ear muffs)	Employees/ Contractors	Supervisor/ Manager	9 hours, daily	Noise Induced Hearing Loss	Medical surveillance, Risk Assessment, Wearing of hearing protection (earplug/muffs)	3	B		II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None	Pending	None
Cleaning	R	25	Handling fuels chemicals	26	Fire /explosion		Smoking near /open/ source of ignition	Employees/ Contractors	Supervisor/ Manager	2 hours, monthly	Fatality	warning signage, strict traffic and movements near working area control, training	5	C		II	**Fully effective**	None	Behavioural safety observation	Manager/Supervisor	**Occupational Health and Safety Act, 1993 (Act No. 85 of 1993**	**None**	**Pending**	None