

NATIONAL TRANSMISSION COMPANY SOUTH AFRICA (NTCSA)										Occupational Health and Safety Baseline risk assessment template										Next Review Date (every 2 years)		2026-08-09	Template Identifier:	240-70446602	
Business/Operating unit:										Department:		Power Delivery: H&S				Authorised by:		Name: Yusuf Mkhomoze				Document Identifier:			
PROJECT: Civil Panel Works										Prepared by: D.Kobelo		Authorised by: Designation: Construction Health and Safety Agent Signed:  Date: 28 March 2025								Revision number: 1		Revision date: 31 May 24			
Refer to Occupational Health and Safety Risk assessment procedure 32-620																									
List activity	Activity type (Routine/Non-routine)	Hazard or	Hazard Identification	Risk for	Associated risk	Risk type	Cause(s) of the risk	Exposed group/employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls	Competence	Licentiate	Risk Priority Rating	Additional Controls or Tasks Aimed at Improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Risk Management (IRM) reference number			
1. All specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	1. Routine activities and situations where hazards normally may slip-by operations and normal work activities. 2. Non-routine activities and situations are exceptional or unplanned.	#	Anything with potential to cause 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., victims, members of the public, etc.	Who is accountable for making sure the controls and measures in place, implemented, regularly reviewed for effectiveness.	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 1 hrs.	Consider the worst case scenario without controls.	Include: Demonstration Controls Persons responsible to demonstrate hazards or reduce the severity of the risk occurring, and Standard Controls Persons responsible to reduce the immediate impact of the risk occurring. Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)				Include: Demonstration Controls Persons responsible to demonstrate hazards or reduce the severity of the risk occurring, and Standard Controls Persons responsible to reduce the immediate impact of the risk occurring. Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	How we know if we are successful, include controls measurements, inspections, observation where necessary.	Person allocated the responsibility for implementing the agreed control.	Where relevant, list the relevant legislative and/or Eskom requirements that prescribe the control.	Once a plan 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.			
Identification and demarcation of protected and/or listed vegetation at the identified construction location.																									
N	1	Uneven surfaces (rocks, tree stumps, etc)	1.1	Slips, trips and falls	Safety	Obstacles on the surface; Poor housekeeping; Slippery surfaces (dewy stones and wet surface)	Surveyors; Environmental and Health and Safety personnel	PM	8 hours	Medical injury	Awareness training during induction for employees and visitors take aware of their surroundings, i.e. tree stumps, loose rock material, and other obstacles.	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act; Construction Regulations 7(5);	TBA	Pending.				
	2	Biological Hazards (snakes, bees, scorpions, etc)	2.1	Snake bites and bee and scorpion stings	Safety	Contacting into contact with snakes/bees, scorpions, spiders etc.	Surveyors; Environmental personal Health and Safety personnel	PM	8 hours	LT1	Awareness training on snakes, bees, scorpions etc; Appoint snake handlers and persons with knowledge of bees and similar insects.	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8	TBA	Pending.				
	3	Extreme weather conditions (heat , cold)	3.1	Dehydration / Frost bite / Hypo and hyperthermia	Health	Exposure to extreme weather conditions; inadequate hydration / insufficient shade; inadequate or failure to provide suitable PPE.	Surveyors; Environmental personal Health and Safety personnel	PM	8 hours	Medical injury	Ensure adequate water supply on site; Work rotation; Regular work breaks; Overalls with long sleeves, safety boots; Warm thermal jackets for winter.	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act; Environmental Regulators for Workplace 2; Eskom's Personal Protective Equipment Specification 340-44175132	TBA	Pending.				
Bush & shrub clearing and tree felling		N	4	Biological hazards;	4.1	Snake bites and bee and scorpion stings	Health	Contact with snakes, bees, scorpions, spiders etc.	Bush clearing team	PM	8 hours	LT1	Site specific SH&E induction; Appoint snake handlers and persons with knowledge of bees and similar insects. Awareness training on how to react when faced with snakes, bees, scorpions, etc.	4	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act; Eskom's Personal Protective Equipment Specification 340-44175132	TBA	Pending.		
	5	Uneven surfaces (rocks, tree stumps, etc)	5.1	Slips, trips and falls	Safety	Mis-stepping; Obstacles on the surface; poor housekeeping; inconsistent while walking; Slippery surfaces (dewy stones and wet surface)	Bush clearing team	PM	8 hours	Medical injury	Remove obstacles on the surface; Practice good housekeeping; Awareness training; Regular inspection of workplace.	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8	TBA	Pending.				
	6	Hand/Power tools e.g. chain saw, hand axes and other cutting tools	6.1	Injuries	Safety	Lack of training; Incorrect use of equipment; Use of defective equipment; Poor supervision; Failure to follow procedures	Bush clearing team	PM	8 hours	Medical injury	Operators shall be trained / Awareness training; Work rotation / regular breaks; Develop a maintenance schedule for all machinery; Provide general supervision; Develop safe work procedures, and communicate to all employees.	4	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8	TBA	Pending.				
	7	Cutting of trees	7.1	Injuries	Safety	Lack of training; Lack of concentration; Poor supervision; Failure to follow procedures; Failure to put on correct PPE.	Bush clearing team	PM	8 hours	Medical injury	Operators shall be trained / Awareness training; Work rotation / regular breaks; Develop a maintenance schedule for all machinery; Provide general supervision; Develop safe work procedures, and communicate to all employees.	4	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8	TBA	Pending.				
	8	Moving machinery (eg TLB)	8.1	Struck by	Safety	Lack of warning alarm on machinery e.g. reverse hoist alarm; Lack of observation operating TLB; Failure to demarcate walk areas; Failure to appoint competent flagmen	Bush clearing team	PM	8 hours	Fatally	Operators shall be trained; Awareness training; Develop a site specific traffic plan; Provide trained flagmen and give them high visibility vests.	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8 CR 22-1-4	TBA	Pending.				
	9	Noise & dust from bush/tree/branch chopper (wood chipper)	9.1	Noise induced hearing loss; Lung/respiratory diseases.	Health	Exposure to noise level above 85dB; Exposure to or inhalation of wood/dust dust.	Bush clearing team	PM	8 hours	LT1	Provide and train employees on use of PPE (ear protection); Conduct health risk assessment and surveys; Communicate survey results / recommendations to employees; Provide supervision.	4	C	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	NHLR; Eskom's Medical Surveillance Procedure 240-84723329	TBA	Pending.				
	10	Extreme weather conditions (heat , cold, dust)	10.1	Frost bite / hypo and hyperthermia	Health	Failure to conduct health risk assessment; Failure to provide PPE (thermal gloves and jackets, wide brim hats etc)	Bush clearing team	PM	8 hours	Medical injury	Provide and train employees on use of PPE; Conduct health risk assessment and surveys; Communicate survey results / recommendations to employees; Provide supervision.	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	Environmental Regulators for Workplace 2; Eskom's Personal Protective Equipment Specification 340-44175132	TBA	Pending.				
Access road/offloading pad construction		N	11	Ground/clear grading equipment like graders	11.1	Struck by; Neck; Dust; Exhaust vibration; Accidents e.g. overturning (spilling)	Safety or health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to follow instructions; Failure to conduct Occupation Hygiene surveys; Failure to enforce the recommendations of the OH surveys/risk assessment on the correct PPE to use.	Civil team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as per Section 49 of SH&E Specification Form 74 (Construction Vehicles and Mobile Plant); Construction Regulations 23 (1)(g); Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as Regimen, as per Section 49 of SH&E Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures; Eskom's Occupational Hygiene Management Guideline POPMAN-GL-06, Section 4.4.2.1 on Medical Surveillance;	5	C	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8 Eskom's Occupational Hygiene Management Guideline POPMAN-GL-06, Section 4.4.2.1 on Medical Surveillance; CR 23 (1)(g); Construction Vehicles & Mobile Plant;	TBA	Pending.		
	12	Excavating equipment e.g. TLB	12.1	Overturning/spilling (Accidents)	Safety	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to follow instructions; Failure to conduct Occupation Hygiene surveys; Failure to provide PPE and enforce the recommendations of the OH surveys & relevant risk assessment	Civil team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as per Section 49 of SH&E Specification Form 74 (Construction Vehicles and Mobile Plant); Construction Regulations 23 (1)(g); Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as Regimen, as per Section 49 of SH&E Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures; Eskom's Occupational Hygiene Management Guideline POPMAN-GL-06, Section 4.4.2.1 on Medical Surveillance;	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8 Eskom's Occupational Hygiene Management Guideline POPMAN-GL-06, Section 4.4.2.1 on Medical Surveillance; CR 23 (1)(g); Construction Vehicles & Mobile Plant;	TBA	Pending.				
Site Establishment		N	13	Mobile Plant, e.g. TLB	13.1	Struck by; Neck; Dust; Whole body vibrations	Safety or health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to follow instructions; Failure to conduct Occupation Hygiene surveys; Failure to provide PPE and enforce the recommendations of the OH surveys/risk assessment	Site establishment team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as per Section 49 of SH&E Specification Form 74 (Construction Vehicles and Mobile Plant); Construction Regulations 23 (1)(g); Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as Regimen, as per Section 49 of SH&E Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures; Eskom's Occupational Hygiene Management Guideline POPMAN-GL-06, Section 4.4.2.1 on Medical Surveillance;	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act Section 8 Eskom's Occupational Hygiene Management Guideline POPMAN-GL-06, Section 4.4.2.1 on Medical Surveillance; CR 23 (1)(g); Construction Vehicles & Mobile Plant;	TBA	Pending.		
	14	Electrical connections to prefabricated offices	14.1	Electrocution	Safety	Incorrect wiring; Lack of or inadequate LOTO Out Tag-Out system; Lack of supervision; Failure to test before touching; Untrained / inexperienced electrician;	Site establishment team	PM	8 hours	Fatality	Eskom's Life Saving Rules, Rule 1: Open, isolate, earth, lock, test, before touch; Electrical safety Regulations 2, 5 and 6; Training and supervision	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act ESR; Eskom's Life Saving Rules	TBA	Pending.				
	15	Lifting operations (e.g. Offloading of Prefabricated office)	15.1	Failure of the lifting equipment/ dislodgement of object	Safety	Use of underrated / defective lifting equipment; Appoint competent crane operator (SANS 12480-1 Section 5.4 (lifting); Appoint competent crane operator (SANS 12480-1 Section 5.3; Crane driver & SANS 5.2.2 Training of crane driver); Failure to maintain lifting equipment; Poor lifting techniques/inadequate supervision; Inadequate attention	Site establishment team	PM	8 hours	Fatality	Appoint competent driver (SANS 12480-1 Section 5.4 (lifting); Appoint competent crane operator (SANS 12480-1 Section 5.3; Crane driver & SANS 5.2.2 Training of crane driver); Failure to maintain lifting equipment; Poor lifting techniques/inadequate supervision; Inadequate attention	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act SANS 12480-1	TBA	Pending.				
Surveying & Pegging		N	16	Hand tools, eg Hammer ;	16.1	Hand / Finger struck by hand tools	Safety	Lack of attention; incorrect work position; Defective tool;	Surveying Team	PM	8 hours	Medical injury	Awareness training of employees in the use of hand tools like hammers, spanners, chocks etc; Inspection of tools before use; Supervision	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act	TBA	Pending.		
	17	Extreme weather conditions	17.1	Dehydration / Frost bite / Hypo and hyperthermia	Health	Inadequate water supply; inadequate or failure to provide suitable PPE (thermal gloves and jackets, wide brim hats etc); return good ergonomic regime	Surveying Team	PM	8 hours	Medical injury	Work rotation; Regular work breaks; Overalls with long sleeves, safety boots; Warm thermal jackets for winter.	3	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	Environmental Regulators for Workplace 2; Eskom's Personal Protective Equipment Specification 340-44175132	TBA	Pending.				
	18	Biological hazards (snakes, bees, and animals	18.1	Snake & spider bites, bee stings, etc; Animal attacks	Health	Contact with snakes, bees, scorpions, spiders etc; Contact with wild animals	Surveying Team	PM	8 hours	Fatality	Awareness training; Induction training; Appointment of trained snake handlers; Awareness training on how to react when faced with wild animals; Fence off animals and prevent contact with workers.	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMC/Construction management supervisor	OHS Act	TBA	Pending.				

R	Safety	1	A	Fully effective	1
N	Health	2	B	Mostly effective	3
		3	C	Mostly ineffective	10
		4	D	None	10
		5	E		
		6			

		Consequences					
	4	A	B	C	D	E	F
	5	B	B	B	B	E	F
	4	B	B	B	B	E	F
	3	B	B	B	E	E	F
	2	B	B	B	B	E	F
	1	B	B	B	B	B	F
		Likelihood					

Platform / Terrace Earthworks	R	19	Mobile Plant, e.g. TLB	19.1	Struck by: Noise; Dust; Equipment vibrations	Safety or health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to follow instructions; Failure to conduct Occupation Hygiene surveys; Failure to provide PPE and enforce the recommendations of the OH survey/risk assessment	Earthworks Team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor shall appoint a competent person as flagman as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures; Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance / Continuous occupational hygiene surveys; Enforce the recommendations of the OH surveys (e.g. wearing of PPE like dust masks, ear protection, etc.)	5	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8 Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance CR 23 (1)(5); Construction Vehicles & Mobile Plant;	TBA	Pending	
		20	Noise	20.1	Noise induced hearing loss	Safety	Failure to provide and train employees on use of PPE (ear protection); Failure to provide adequate site noise; Failure to supervise use of ear protection	Earthworks Team	PM	8 hours	LTI	Provide and train employees on use of PPE (ear protection); Conduct health risk assessment and communicate to employees; Provide supervision.	4	C	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	NHLR; Eskom's Medical Surveillance Procedure 240-84733329.	TBA	Pending	
		21	Oil and other petroleum material from mobile plant	21.1	Oil spillage leading to ground water contamination	Health	Failure to maintain & service equipment Failure to provide adequate site traps Failure to perform regular inspection	Earthworks Team	PM	8 hours	LTI	Train / inform employees on the handling of HCS; Conduct continuous occupational hygiene surveys; Provide MSDS for all chemicals in use; Provide adequate storage facilities; Provide suitable PPE (respirators, PVC suits, depending on the HCS in question)	4	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act HCSR Eskom's Personal Protective Equipment Specification 240-44175132	TBA	Pending	
Excavation / trenching	R	22	Collapse of excavation walls (cave-in)	22.1	Entrapment/entanglement of persons inside the excavation	Safety	Unstable excavation; Unstabilized or unsupported excavation	Excavation team; Members of the Public; Animals	PM	8 hours	Fatality	The Contractor to submit the proposed foundation and soil type reclamation schedules to the Design Engineer as per Eskom Procedure 240-41172520 "The design and construction of overhead power lines", Section 6.5.2; Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom Procedure 240-41172520 "The design and construction of overhead power lines", Section 6.5.1 (Excavations); Construction Regulations 13	TBA	Pending	
		23	Underground services (service pipes, electrical & telecoms cables etc)	23.1	Damage to underground services; electric shocks	Safety	Failure to perform or conduct correct underground scan; Failure to communicate results of scan for underground services to operator; Unavailability of plans for underground services.	Excavation team; Members of the Public; Animals	PM	8 hours	Fatality	Use underground services detector (log cable detector) to identify / trace underground services; Obtain and use underground service plan; Identification of signs for underground services; Communicate the results of the tests to all employees.	5	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 13(2)-g;	TBA	Pending	
		24	Material / people/ animals falling into excavation	24.1	Injuries to employees / animals;	Safety	Failure to barricade the excavation area; Failure to warn of danger.	Excavation team; Members of the Public; Animals	PM	8 hours	LTI	Provide warning signs & barricading to warn and prevent people and animals from falling into excavation.	4	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 13(2)-g	TBA	Pending	
		25	Moving machinery (e.g. TLB);	25.1	struck by	Safety	Lack of reverse alarm on machinery; Failure to train and provide a flagman; Untrained flagman; Inadequate supervision; No tag-out/tag-out system in place leading to operation of machine by incompetent person.	Excavation team; Visitors;	PM	8 hours	Fatality	Ensure operators are competent; Provide trained flagman; Supervision (ensure the moving machinery is at a safe distance from the excavation); Erect barricading around excavation.	5	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; CR 13 (2)-d	TBA	Pending	
		26	Oxygen deficiency in the excavation	26.1	Asphyxiation to operators in the excavation	Safety	Entering the excavation without performing oxygen tests.	Excavation team operators;	PM	8 hours	Fatality	Operators must be competent to operate the machinery; Ensure there are trained flagmen during operations; Provide adequate supervision; Provide high visibility PPE.	5	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; CR 23 (1-d-0); Eskom Procedure 39-98 Section 2.6 & 2.18	TBA	Pending	
		27	Dust from excavation process/activity	27.1	Dust inhalation leading to (lung) respiratory health diseases	Health	Exposure to dust without using respiratory protection equipment (PPE);	Excavation team;	PM	8 hours	Medical	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment and communicate hazards to employees; Provide hearing and respiratory protection, and supervise their use.	4	C	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; NHLR; Eskom's Medical Surveillance Procedure 240-84733329.	TBA	Pending	
		28	Possible collection of water (drowning)	28.1	Drowning	Safety	Rain water and/or damage to under-surface services e.g. water line	Excavation team; Project team members; Visitors; animals; members of the public	PM	8 hours	Fatality	Solid barricading as per the Health and Safety specification.	5	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Sec 8; Eskom Personal Protective Equipment Specification 240-44175132;Eskom Medical Surveillance Procedure 240-84733329.	TBA	Pending	
Working with Cement	R	29	Dust Wet Cement;	29.1	Microfibrations, Cement burns and Dermatitis	Health	Failure to conduct health risk assessment and surveys; Failure to inform employees of survey results; Failure to inform employees of hazard; Failure to provide suitable PPE	Construction team	PM	8 hours	LTI	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment and surveys; Communicate survey results and hazards to employees; Provide awareness training for cement work; Job rotation; Persons mixing concrete to use proper PPE including gumboots, safety goggles, long PVC gloves, respiratory protection etc.	4	C	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8; HCSR; Eskom's Personal Protective Equipment Specification 240-44175132; Eskom's Medical Surveillance Procedure 240-84733329.	TBA	Pending	
		30	Ergonomics hazards	30.1	Body aches, muscles injuries, sprains, etc	Health	Inadequate workplace risk assessment to identify ergonomic risks e.g. awkward postures, overexertion, working in high temperatures, etc	Construction team	PM	8 hours		Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment surveys; Communicate survey results to employees; Communicate hazards to employees; Awareness training on correct posture techniques; Job rotation and work rest periods.	3	C	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50.	TBA	Pending	
Yardworks	R	31	Open excavation	31.1	Fall into	Safety	Failure to post warning signs; Failure to barricade excavation; Failure to make aware.	Yardworks Team	PM	8 hours	Medical Injury	OHS Act Sec 8; Construction Regulations 13, the project Health and Safety Specification; this Baseline Risk Assessment	3	C	+	Mostly effective	Contractor to develop excavation procedure; Contractor to appoint excavation supervisor to inspect the excavations on regular basis; Contractor to protect the excavations with solid barricading accompanied by warning signs.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; CR 13(2)-g	TBA	Pending	
		32	Mobile Plant (e.g. graders, TLB etc)	32.1	Struck by; Noise; Dust; Whole body vibrations	Safety or health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to follow instructions; Failure to conduct Occupation Hygiene surveys; Failure to provide PPE and enforce the recommendations of the OH surveys	Yardworks Team	PM	8 hours	Fatality	Construction Regulations 23 (1)(d); Health and Safety Specification Form 74 (Construction Vehicles and Mobile Plant); Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; this Baseline Risk Assessment; Construction Regulations 13;	5	C	+	Mostly effective	Contractor shall appoint competent operator; Contractors shall ensure reverse hoist is installed on the machinery; Contractor shall ensure a flagman is designated; Contractor shall ensure effective traffic management plan; Contractor to ensure Log Out/Tag Out procedure is in place and adhered to; Contractor to conduct a risk assessment and communicate the results & controls thereof to workers; Contractor shall enforce the use of Hearing and Respiratory Protective Devices/Equipment.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Health & Safety Specification Form 74; Construction Regulations 23	TBA	Pending	
		33	Roller /wacker (during compaction of filling material)	33.1	Struck by;	Safety	Use of equipment by incompetent operator; Incompetent use of equipment; Failure to conduct risk assessment;	Yardworks Team	PM	8 hours	LTI	OHS Act Sec 8; Construction Regulations 24; the project Health and Safety Specification; this Baseline Risk Assessment	4	C	+	Mostly effective	Contractor shall appoint a competent operator; Contractor to conduct equipment risk assessment and communicate results & recommended controls thereof to the operator.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending	
		33.2		33.2	Repetitive strain injuries	Safety	Prolonged use of wacker machine; Inadequate training for operators; Use of compaction equipment without suitable and adequate PPE	Wacker operators	PM	8 hours	LTI	OHS Act Sec 8; General safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4	C	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.						
		34	Trowel Machine	34.1	Exposure to radiation	Health	Failure to train / inform; Failure to demarcate no-go zone for unauthorised personnel; Failure to provide adequate storage facilities; Inadequate supervision.	Yardworks Team	PM	8 hours	LTI	Contractor shall procure the services of a competent person to operate trowel; Contractor shall determine the level of radiation emitted by the trowel; Post signage and demarcate the area where the trowel is being used; Provide direct supervision; Work rotation; Provide awareness on the trowel during toolbox talks.	4	B	+	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act HCSR	TBA	Pending	
Foundations Works (e.g. Main bases, equipment bases, boiler support foundations, floodlights and earthwire supports)	R	35	Open Excavations	35.1	Collapse of excavation walls	Safety	Soft and unstable excavation walls Unsupported or unstabilized weak excavation walls.	Foundation and other relevant teams	PM	8 hours	Fatality	OHS Act Sec 8; Construction Regulations 9; Health and Safety Specification and this Baseline Risk Assessment	5	C	+	Mostly effective	Contractor shall ensure soil study before excavation activity; Contractor shall ensure that weak and soft excavation is effectively stabilized and supported e.g. bracing, shoring, battering, etc.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending	
				35.2	Falling into	Safety	Unbarricaded open excavations; Failure to warn of danger	Foundation team; visitors and other project team members	PM	8 hours	LTI	OHS Act Sec 8; Health and Safety Specification; this Baseline Risk Assessment	4	C	+	Mostly effective	Contractor shall ensure that solid barricading accompanied by warning signs are installed around the excavations.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending	
				35.3	Accumulation of natural gasses leading to asphyxiation to operators	Safety	Failure to perform Oxygen tests in the excavation	Foundation team; visitors and other project team members	PM	8 hours	Fatality	OHS Act Sec 8; Health and Safety Specification; this Baseline Risk Assessment	4	C	+	Mostly effective	Contractor shall ensure that continuous oxygen tests are performed before and during works in the excavation	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending	

			36	Wet Concrete/Cement	36.1	Concrete burns	Safety	Failure to train / warn of hazards; Lack of supervision; Lack of knowledge; Lack of adequate PPE.	Foundation and other relevant teams	PM	8 hours	LTI					Personnel mixing concrete to use proper PPE including gumboots safety goggles, long PVC gloves, respiratory protection etc. Training of supervisors, and awareness training of relevant employees on Eskom Procedure 240-47172520 "The design and construction of overhead power lines", Section 6.6 Concrete Foundations; Supervisor to be present during delivery to ensure that raw material delivered is safe to use to specifications.	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Personal Protective Equipment Specification 240-4417332 Eskom's Medical Surveillance Procedure 240-8473329.	TBA	Pending.	
			37	Dry Cement (dust)	37.1	Lung/respiratory infections/diseases	Health	Inadequate risk assessment / failure to warn of danger; Lack of supervision; Failure to use appropriate respiratory protective equipment.	Foundation and other relevant teams	PM	8 hours	LTI					Contractor to conduct a health risk assessment, inform employees of hazards caused by concrete. Provide direct supervision. Provide suitable PPE (dust masks, full body PVC suit). Contractor shall only use the services of a competent service provider for blasting.	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act GSIR 2 Eskom's Personal Protective Equipment Specification 240-4417332	TBA	Pending.	
			38	Pinch points from Formwork/shuttering	38.1	hand/finger injuries	Safety	Inadequate/ineffective risk assessment; Failure to warn and inform workers of risks at hand; Failure to wear correct PPE recommended by the relevant risk assessment; Poor supervision.	Foundation and other relevant teams	PM	8 hours	LTI					OHS Act Section B: General Safety Regulations 2, the project Health and Safety Specification, this Baseline Risk Assessment	4	C	W	Mostly effective	Contractor shall conduct risk assessment from which control and PPE shall be recommended and communicated with workers; Contractor shall ensure effective supervision.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 12-2-1	TBA	Pending.	
			39	Flying objects and particles from Blasting	39.1	Injuries to persons and damage to property.	Safety	Failure by Contractor / blasting service provider to determine the danger area as well as authorised entry / exit points; Failure to ensure that the safe distances are applied for the relevant explosive category; Failure to use the services of a competent service provider for blasting, and appoint competent and certificated person; Failure to communicate blasting information/warning.	Foundation and other relevant teams	PM	8 hours	Fatality					Contractor / Blasting service provider shall determine the danger area, as well as authorised entry / exit points. Contractor shall only use the services of a competent service provider for blasting. Contractor to ensure that the safe distances are applied for the relevant explosive category. Contractor to ensure warning/information is communicated to those who may be affected. Employees Regulations 6, 11 and 12	5	C	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Regulations Regulations 6, 11 and 12	TBA	Pending.	
Erection/loading/off-loading/ installation of Fire Protection (fire walls) Manholes & sumps; piping; oil holding dams; transformer / Reactor bay;	R		40	Use of crane (mechanical lifting)for loading/offloading/installation/ erection of materials and equipment	40.1	Lifting equipment failure;	Safety	Inadequate maintenance of lifting equipment; Using underrated lifting equipment (due to lack of training of riggers) Untrained / inexperienced operator.	Fire fighting team	PM	8 hours	Fatality					Appoint competent slinger (SANS 12480-1 Section 5.4 (slinger)); Appoint competent crane operator (SANS 12480-1 Section 5.3; Crane driver & Section 5.3.3. Training of crane driver); Develop a maintenance schedule as per manufacturer's manual; Obtain the services of a competent person to test/ maintain lifting equipment; Train supervisors, operators, employees on safe work procedures.	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
			41	Open excavation	41.1	Collapse; Fall into; Engulfment	Safety	Type of soil structure; Failure to batter sides and ends; Failure to support with timber, sheeting or other support systems; Inadequate ho shoring; Inadequate safety signage	Fire fighting team	PM	8 hours	Fatality					The Contractor to submit the proposed foundation and soil type notification schedules to the Design Engineer as per Eskom Procedure 240-47172520 "The design and construction of overhead power lines", Section 6.5.1. Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	Eskom Procedure 240-47172520 "The design and construction of overhead power lines", Section 6.5.1 CR 13	TBA	Pending.	
			42	Moving machinery (graders, TLB etc)	42.1	Struck by; Noise; Dust; Whole body vibrations	Safety or health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to conduct Occupational Hygiene surveys; Failure to provide PPE and enforce the recommendations of the OH surveys	Fire fighting team	PM	8 hours	Fatality					Contractor shall develop a site specific traffic plan, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Construction vehicle operators shall be trained Construction Regulations 23 (1)(d) Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as flagman, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Eskom's Occupational Hygiene Management Guideline POPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Contractor to ensure that contractor supervisors and employees are trained in safe work procedures; Provide adequate PPE, including dust masks and hearing protection; Work rotation to reduce exposure to vibration.	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; SHE Specification Form 74; Eskom's Occupational Hygiene Management Guideline POPMAN-GL-50; CR	TBA	Pending.	
Drainage system erection	R		43	Trenching	43.1	Collapse of trench; Fall into; Engulfment	Safety	Type of soil structure; Failure to batter sides and ends; Failure to or inadequate shoring.	Excavation team	PM	8 hours	Fatality					The Contractor to submit the proposed foundation and soil type notification schedules to the Design Engineer as per Eskom Procedure 240-47172520 "The design and construction of overhead power lines", Section 6.5.1. Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom Procedure 240-47172520 "The design and construction of overhead power lines", Section 6.5.1 CR 13	TBA	Pending.	
			44	Storm water pipe lay/storage	44.1	Pipe roll and crush employees	Safety	Inadequate risk assessment; Failure to train / inform employees to put stoppers underneath pipes; as per risk assessment.	Excavation team	PM	8 hours	LTI					Contractor shall develop a safe work procedure; Contractor shall instruct employees to put stoppers underneath pipes, as per risk assessment.	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 9	TBA	Pending.	
			45	Roller / wacker during compacting of filling material.	45.1	Crushing	Safety	Untrained operator; Lack of attention.	Excavation team	PM	8 hours	LTI					User of wacker shall be trained and competent to use it. Regular breaks and job rotation.	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
Construction of Transformer / Reactor Plinths	R		46	Moving machinery (Cranes, construction vehicles, etc)	46.1	Struck by; Failure of lifting equipment	Safety	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Inadequate maintenance of lifting equipment; Using underrated lifting equipment.	Reactor Plinth team	PM	8 hours	Fatality					Contractor shall develop a site specific traffic plan, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Construction vehicle operators shall be trained Construction Regulations 23 (1)(d) Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as flagman, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures;	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; SHE Specification Form 74 CR 23 (1)(d)	TBA	Pending.	
			47	Offloading material using lifting equipment	47.1	Struck by; Failure of lifting equipment;	Safety	Untrained / inexperienced operator; Failure to appoint competent flagmen; Inadequate maintenance of lifting equipment; Using underrated lifting equipment.	Reactor Plinth team	PM	8 hours	Fatality					Appoint competent slinger (SANS 12480-1 Section 5.4 (slinger)); Appoint competent crane operator (SANS 12480-1 Section 5.3; Crane driver & Section 5.3.3. Training of crane driver); Develop a maintenance schedule as per manufacturer's manual; Obtain the services of a competent person to test/ maintain lifting equipment; Train supervisors, operators, employees on safe work procedures.	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
			48	Ergonomics (during assembly of steel structure)	48.1	Muscular skeletal disorders	Safety	Awkward body position; Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions	Reactor Plinth team	PM	8 hours	LTI					Eskom's Occupational Hygiene Management Guideline POPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment and communicate hazards to employees; Awareness training on correct lifting techniques; Job rotation and work rest periods	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Management Guideline POPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance CR 9	TBA	Pending.	
Digging cable trenches, ducts, junctions and ramps	R		49	Picks, shovels, etc	49.1	Struck by	Safety	Lack of attention / concentration; Awkward position; Inadequate hand rest inspection/ maintenance	Trenching team	PM	8 hours	LTI					Supervision; Job rotation and regular work rest periods.	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
Installation of support steel	R		50	Moving machinery (Cranes, construction vehicles, etc)	50.1	Struck by	Safety	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Lack of operator training; Lack of concentration; Failure to demarcate walk areas.	Installation team	PM	8 hours	Fatality					Contractor shall develop a site specific traffic plan, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Construction vehicle operators shall be trained Construction Regulations 23 (1)(d) Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as flagman, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures;	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 23-1-4 SHE Specification Form 74	TBA	Pending.	
			51	Offloading material using lifting equipment	51.1	Struck by; Failure of lifting equipment	Safety	Untrained / inexperienced operator; Failure to appoint competent flagmen; Inadequate maintenance of lifting equipment; Using underrated lifting equipment.	Installation team	PM	8 hours	Fatality					5.4 (slinger); Appoint competent crane operator (SANS 12480-1 Section 5.3; Crane driver & Section 5.3.3. Training of crane driver); Train and appoint competent flagmen; Develop a maintenance schedule as per manufacturer's manual; Train supervisors, operators, employees on safe work procedures.	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
			52	Ergonomics (during assembly of steel structure)	52.1	Muscular skeletal disorders	Health	Awkward body position; Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions.	Installation team	PM	8 hours	LTI					Eskom's Occupational Hygiene Management Guideline POPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment and communicate hazards to employees; Awareness training on correct lifting techniques; Job rotation and work rest periods.	4	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Management Guideline POPMAN-GL-50	TBA	Pending.	
			53	Lifting equipment eg cranes (during erection of support steel	53.1	Failure of lifting equipment	Safety	Untrained / inexperienced operator; Inadequate maintenance of lifting equipment; Failure to follow or inadequate safe work procedures; Using underrated lifting equipment (due to untrained riggers).	Installation team	PM	8 hours	Fatality					Appoint competent slinger (SANS 12480-1 Section 5.4 (slinger)); Appoint competent crane operator (SANS 12480-1 Section 5.3; Crane driver & Section 5.3.3. Training of crane driver); Train and appoint competent flagmen; Develop a maintenance schedule as per manufacturer's manual; Train supervisors, operators, employees on safe work procedures.	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
Erection/Installation of light mast	R		54	Moving machinery (Cranes, construction vehicles, etc)	54.1	Struck by	Safety	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent flagmen; Failure to demarcate walk areas; Lack of attention / concentration; Failure to comply with the site traffic plan.	Erection team	PM	8 hours	Fatality					Contractor shall develop a site specific traffic plan, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Construction vehicle operators shall be trained Construction Regulations 23 (1)(d) Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as flagman, as per Section 49 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures.	5	B	W	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SHE Specification Form 74 CR 23 (1)(d)	TBA	Pending.	

		55	Offloading of material	55.1	Material falls onto employees, resulting in injuries	Safety	Use of undersized / defective lifting equipment; Failure to maintain lifting equipment; Failure to follow written safe work procedures; Lack of training of operator.	Erection team	PM	8 hours	Fatality	Appointment of trained and competent riggers and operators; Ensure lifting equipment is tested and maintained by an accredited entity; Training of supervisors and employees on safe work procedures; Ensure machine operators are adequately trained.	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1 Eskom Procedure 39-38	TBA	Pending	
		56	Ergonomics (during assembling of steel structure)	56.1	Muscular skeletal disorders	Health	Awkward body position Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions	Erection team	PM	8 hours	LTI	Awareness training on correct lifting techniques; Job rotation and work rest periods	4	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending	
Installation of lighting and power reticulation	R	57	Working at height	57.1	Fall from height	Safety	Failure to identify suitable anchor points; Failure to inspect safety harnesses before use; Failure to secure properly (persons and objects) Lack of training	Erection team	PM	8 hours	Fatality	Eskom's Life Saving Rules, Rule 1: Open, isolate, test, lock, before touch; Electrical Isolation Regulations 2, 5 and 6	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 10 Eskom Procedure 32-418	TBA	Pending	
		58	Electrical reticulation	58.1	Electric shocks	Safety	Failure to test before touching; Unskilled / untrained electrician;	Erection team	PM	8 hours	Fatality	The Contractor to submit the proposed foundation and soil type nomination schedule to the Design Engineer as per Eskom Procedure 240-47172520 The design and construction of overhead power lines - Section 6.5.1. Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act EIR Eskom's Life Saving Rules	TBA	Pending	
Erection of fencing (inner and outer security fences)	R	59	Digging/Excavating (manual/mechanical)	59.1	Physical injuries e.g. muscle sprains	Safety	Incorrect use of digging/excavating equipment/tool	Fence erection team	PM	8 hours	Fatality	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4	C	II	Mostly effective	Contractor shall develop a Health and Safety Plan and submit it to the Client for evaluation/verifying. Contractor to conduct effective risk assessment which among others will give guidance on correct training and PPE required or to be provided to workers.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Health & Safety Specification; this Baseline Risk Assessment CR 13	TBA	Pending	
		60	Wet Concrete	60.1	Concrete burns;	Safety	Direct skin contact with wet concrete; Failure to train workers of hazards; Lack of supervision; Lack of knowledge; Failure to put on correct PPE.	Fence erection team	PM	8 hours	LTI	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4	C	II	Mostly effective	Contractor shall develop a risk assessment and communicate its results and controls to workers; Correct PPE shall be provided to workers by the contractor;	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50 Eskom's Personal Protective Equipment Specification 240-44179132	TBA	Pending	
		61	Planting of fence poles	61.1	Struck by swinging pole	Safety	Failure to ensure a controlled planting of poles; Poor communication; Incorrect method of planting poles; Lack of attention / concentration.	Fence erection team	PM	8 hours	Medical Injury	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	3	C	II	Mostly effective	Contractor shall develop a Health and Safety Plan in which correct methods of planting poles/bene erection shall be outlined; Effective risk assessment for the activity shall be developed and communicated with workers;	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Health & Safety Specification; Form 74; this Baseline Risk Assessment	TBA	Pending	
		62	Handtools, e.g. pliers	62.1	Caught in between	Safety	Lack of attention / concentration; Awkward position; inadequate hand tool inspection / maintenance	Erection team	PM	8 hours	LTI	Supervision; Job rotation and regular work rest periods; Supervisor to ensure that tools being used are properly maintained; Ensure proper work design to eliminate awkward positions.	4	B	III	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending	
		63	Ergonomic hazards	63.1	Musculoskeletal disorders	Health	Awkward body position Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions; Incorrect lifting techniques; Overexertion	Construction team	PM	8 hours	LTI	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4	B	III	Mostly effective	Contractor shall develop ergonomic risk assessment and communicate its results and recommendations with workers; Contractor shall adopt good ergonomic regimes such as job rotation;	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Health and safety Specification Form 74 Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50 This Baseline Risk Assessment; Eskom's Personal Protective Equipment Specification 240-44179132	TBA	Pending	
Building works	R	64	Offloading of equipment / material	64.1	Equipment / material dislodged and fall onto employees	Safety	Failure to secure equipment / material properly; Untrained / inexperienced lifting equipment operator; Failure to follow safe work procedure	Construction team	PM	8 hours	Fatality	Supervisor shall ensure that plans are properly secured before lifting; Only trained and experienced lifting equipment operators shall do the lifting, under direct supervision; Contractor shall develop safe work procedures for lifting, and train / inform employees accordingly.	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending	
		65	Working at heights	65.1	Fall from height	Safety	Failure to identify suitable anchor points; Failure to inspect safety harnesses before use; Failure to secure properly (persons and objects) Lack of / inadequate training	Construction team	PM	8 hours	Fatality	Ensure direct competent supervision for work at height activities; Supervisor shall identify suitable anchor points; Assign competent gear controller to manage all safety harnesses and ensure they are inspected before use; Ensure all climbers are trained by an accredited provider.	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom Working at Heights Procedure 32-418	TBA	Pending	
		66	Moving machinery (Cranes, construction vehicles, etc)	66.1	Struck by; Quilt; Noise	Safety	Failure to develop / inadequate site traffic plan Untrained / inexperienced operator; Failure to appoint competent Regimen; Failure to follow instructions; Failure to conduct Occupation Hygiene surveys; Failure to provide PPE and enforce the recommendations of the OH surveys	Construction team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as per Section 48 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor vehicle operators shall be trained Construction Regulations 23 (1)(b); Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as Regimen, as per Section 48 of SHE Specification Form 74 (Construction Vehicles and Mobile Plant); Contractor to ensure that contractor supervisors and employees are trained in safe work procedures; Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance, to determine any underlying medical conditions; Conduct health risk assessment and communicate hazards to employees; provide PPE and enforce the recommendations of the OH surveys	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SHE Specification Form 74 CR 23 (1)(b) Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50	TBA	Pending	
		67	Ergonomics	67.1	Musculoskeletal disorders	Health	Awkward body position; Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions; Incorrect lifting techniques; Overexertion	Construction team	PM	8 hours	LTI	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance, to determine any underlying medical conditions; Conduct health risk assessment and communicate hazards to employees; Train / inform employees on good ergonomics; Provide supervision and awareness training for correct work; Job rotation; Persons mixing concrete to use proper PPE including gumboots, safety goggles, long PVC gloves, respiratory protection etc;	4	B	III	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SHE Specification Form 74 CR 23 (1)(b) Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50	TBA	Pending	
External works	R	68	Offloading of equipment	68.1	Equipment dislodged and fall onto employees	Safety	Failure to secure equipment / material properly; Untrained / inexperienced lifting equipment operator; Failure to follow safe work procedure.	Construction team	PM	8 hours	Fatality	Awareness training on use of HCS; Provide MSDS for all HCS used on site; Provide HCS with adequate storage facilities; Provide suitable PPE (respirators, PVC suits, as may be applicable.	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending	
		69	Ergonomic hazards	69.1	Musculoskeletal disorders	Health	Awkward body position; Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions; Incorrect lifting techniques; Overexertion	Construction team	PM	8 hours	LTI	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance, to determine any underlying medical conditions; Conduct health risk assessment and communicate hazards to employees; Train / inform employees on good ergonomics; Provide supervision and awareness training for correct work; Job rotation; Persons mixing concrete to use proper PPE including gumboots, safety goggles, long PVC gloves, respiratory protection etc;	4	B	III	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SHE Specification Form 74 CR 23 (1)(b) Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50	TBA	Pending	
		70	Weedkillers under yardstone	70.1	Chemical poisoning	Health	Failure to train / inform; Failure to provide MSDS; Failure to provide adequate storage facilities; Failure to provide PPE	Construction team	PM	8 hours	LTI	Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance, to determine any underlying medical conditions; Conduct health risk assessment and communicate hazards to employees; Provide supervision during disc cutting operations; Job rotation; Employees using disc cutters shall be provided with suitable PPE (hearing protection, etc)	4	B	III	Mostly effective	Contractor shall develop and implement additional controls and raising post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act HCSR Eskom's Personal Protective Equipment Specification 240-44179132	TBA	Pending	
Laying of kerbs and channels	R	71	Kerb Works/Handling/carrying	71.1	Muscle injuries/backaches	Safety	Awkward body position; Incorrect lifting techniques; Overexertion	Construction team	PM	8 hours	LTI	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; OHS Act Sec 8; Good lifting/carrying techniques.	4	B	III	Mostly effective	Contractor shall ensure good ergonomic regimes e.g. job rotation, regular breaks etc; Contractor to ensure good lifting/carrying techniques training to his employees.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50 Eskom's Personal Protective Equipment Specification 240-44179132	TBA	Pending	
		72	Cutting/breaking kerbs	72.1	Noise induced hearing loss; Lung/respiratory diseases;	Health	Exposure to equipment noise over 85dB; Vibration of disk saws.	Construction team	PM	8 hours	SI	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; OHS Act Sec 8; the project Health and Safety Specification	4	B	III	Mostly effective	Contractor shall develop adequate risk assessment and communicate the results and controls thereof to the workers; Training on the correct use of cutting/breaking equipment shall be provided; Contractor shall provide to his workers training on the correct use and maintenance of both hearing and respiratory Protective device/equipment (HPC/PPE)	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50 Eskom's Personal Protective Equipment Specification 240-44179132	TBA	Pending	

