

Platform / Terrace Earthworks	R	19	Mobile Plant, e.g. TLB	19.1	Struck by: Noise; Dust; Equipment vibrations	Safety/health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent signaller; Failure to follow instructions; Failure to conduct Occupation Hygiene survey; 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 4.4 of the Specification Form 74 (Construction Vehicles and Mobile Plant); Construction Regulations 23 (2)(b) Construction Vehicles & Mobile Plant; Contractor shall appoint a competent person as signaller, as per Section 4.8 of the 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 FOPMAN-GI-50, Section 4.4.2.1 on Medical Surveillance / Continuous occupational hygiene surveys; Enforce the recommendations of the OH survey (e.g. wearing of PPE like dust masks, ear protection, etc)	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act Section 8 Eskom's Occupational Hygiene Management Guideline FOPMAN-GI-50, Section 4.4.2.1 on Medical Surveillance CR 23 (1)(b) Construction Vehicles & Mobile Plant.	TBA	Pending.																					
																							20	Noise	20.1	Noise induced hearing loss	Safety	Failure to provide and train and use hearing protection; 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	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	NHR, Eskom's Medical Surveillance Procedure 240-8473329.	TBA	Pending.
22	Collapse of excavation walls (see-its)	22.1	Entrapment/engulfment of persons inside the excavation	Safety	Unstable excavation; Unshored or unsupported excavation;	Excavation team; Members of the Public; Animals	PM	8 hours	Fatality	The Contractor to submit the proposed foundation and soil type nomination schedule to the Design Engineer as per Eskom Procedure 240-4712320 "The design and construction of overhead power lines", Section 6.5. Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act Eskom Procedure 240-4712320 "The design and construction of overhead power lines", Section 6.5.1 (Excavations); Construction Regulations 13	TBA	Pending.																							
																					23	Underground services (services 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 tests 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 (eg cable detector) to identify these underground services; Obtain and use underground service plans; Identification of signs for underground services; Communicate the results of the tests to all employees.	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act CR 182 (6)	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	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act CR 12 (D-8)	TBA	Pending.																							
																					25	Moving machinery (e.g. TLB);	25.1	struck by	Safety	Lack of reversal alarm on machinery; Failure to train and provide a Tag-out; Untrained signaller; Inadequate supervision; No 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 signaller; Supervision ensures the moving machinery is at a safe distance from the excavation); Erect barricading around excavation.	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; 13 (D-4)	CR	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 signaller during operation; Provide adequate supervision; Provide high visibility PPE.	5	B	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; 23 (c-d); Eskom Procedure 39-68 Section 2.8 & 2.18	TBA	Pending.																							
																					27	Dust from excavation process/activity	27.1	Dust inhalation leading to (lung) respiratory health disease	Health	Operator to dust without using respiratory protection equipment (RPE);	Excavation team;	PM	8 hours	Medical	Eskom's Occupational Hygiene Management Guideline FOPMAN-GI-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	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; NHR; Eskom's Medical Surveillance Procedure 240-8473329.	TBA	Pending.		
28	Possible collection of water (damming)	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	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act Sec. 8; Eskom Personal Protective Equipment Specification 240-84175132; Eskom Medical Surveillance Procedure 240-8473329	TBA	Pending.																							
																					29	Dust/Wet Cement;	29.1	Mucorrhinosis, 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 hazards; Failure to provide suitable PPE	Construction team	PM	8 hours	LTI	Eskom's Occupational Hygiene Management Guideline FOPMAN-GI-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 goggles, safety goggles, long PVC gloves, respiratory protection etc.	4	C	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act Section 8; HCS; Eskom's Personal Protective Equipment Specification 240-84175132; Eskom's Medical Surveillance Procedure 240-8473329.	TBA	Pending.		
30	Ergonomics hazards	30.1	Body aches, muscle 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	Medical	Eskom's Occupational Hygiene Management Guideline FOPMAN-GI-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment surveys; Communicate survey results to employees; Awareness training on correct posture techniques; Job rotation and work rest periods.	3	C	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; Eskom's Occupational Hygiene Management Guideline FOPMAN-GI-50.	TBA	Pending.																							
																					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	DHS Act Sec. 8, Construction Regulations 13, the project Health and Safety Specification; this Baseline Risk Assessment	3	C	H	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	PMA/Construction manager/supervisor	DHS Act; CR 152-2)	TBA	Pending.		
32	Mobile Plant (e.g. grammers, TLB etc)	32.1	Struck by: Noise; Dust; Whole body vibrations	Safety/health	Failure to develop / inadequate site traffic plan; Untrained / inexperienced operator; Failure to appoint competent signaller; Failure to follow instructions; Failure to conduct Occupation Hygiene survey; Failure to provide PPE and enforce the recommendations of the OH survey	Yardworks Team	PM	8 hours	Fatality	Construction Regulations 23 (2)(g) Health and Safety Specification Form 74 (Construction Vehicles and Mobile Plant); Eskom's Occupational Hygiene Management Guideline FOPMAN-GI-50, Section 4.4.2.1 on Medical Surveillance; this Baseline Risk Assessment; Construction Regulations 13.	5	C	H	Mostly effective	Contractor shall appoint competent operator; Contractor shall ensure reversal function is installed on the machinery; Contractor shall ensure a signaller is assigned; Contractor shall ensure effective traffic management plan; Contractor to ensure the OH Tag Out procedure is in place and adhered to; Contractor shall conduct a risk assessment and communicate the results & controls thereof to workers; Contractor shall enforce the use of hearing and Respiratory Protective Device/Equipment.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act Health & Safety Specification Form 74; Construction Regulations 23	TBA	Pending.																							
																					33	Roller / wacker (during compaction of being material)	33.1	Struck by;	Safety	Use of equipment by incompetent operator; Incorrect use of equipment; Failure to conduct risk assessment;	Yardworks Team	PM	8 hours	LTI	DHS Act Sec. 8; Construction Regulations 24, the project Health and Safety Specification; this Baseline Risk Assessment	4	C	H	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	PMA/Construction manager/supervisor	DHS Act	TBA	Pending.		
34	Trower 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 trower; Contractor shall determine the level of radiation emitted by the trower; Post signage and demarcate the area where the trower is being used; Provide direct supervision; Wear radiation; Provide awareness on the trower during toolbox talks.	4	B	H	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act HCS	TBA	Pending.																							
																					35	Open Excavations	35.1	Collapse of excavation walls	Safety	Soft and unstable excavation walls Unshored or unshored weak excavation walls.	Foundation and other relevant teams	PM	8 hours	Fatality	DHS Act Sec. 8, Construction Regulations 13, Health and Safety Specification and this Baseline Risk Assessment	5	C	H	Mostly effective	Contractor shall ensure soil study before excavation activity; Contractor shall ensure that weak and soft excavations is effectively established and supported & bracing, shoring, battering, etc	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending.		
35.2	Falling into	Safety	Unshored/unstable open excavation; Failure to warn of danger	Foundation team; visitors and other project team members	PM	8 hours	LTI	DHS Act Sec. 8, Health and Safety Specification, this Baseline Risk Assessment	4	C	H	Mostly effective	Contractor shall ensure that solid barricading accompanied by warning signs are installed around the excavations.	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending.																									
																			35.3	Accumulation of natural gases 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	DHS Act Sec. 8, Health and Safety Specification, this Baseline Risk Assessment	4	C	H	Mostly effective	Contractor shall ensure that continuous oxygen tests are performed before and during work in the excavation	Eskom Inspections and Audits on Contractor	PMA/Construction manager/supervisor	DHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending.						

