

Occupational Health and Safety Baseline risk assessment template															
Business/Operating unit:	Transmission Projects Delivery Baseline Risk Assessment: Substations							Department:	TPD SHEQ			Next Review Date (every 2 years):	2025/04/25	Template Identifier:	240-70044602
Date:	2023/09/13							Prepared by:	Name: S.D Ntombi	Signature:	Authorised by:	Name: Vusi Mkhanyane	Designation: TPD - SACPCMP - (C&CHSA)	Document Identifier:	PDPMAN-FM-99
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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	OHS Opportunities	Exposed group/employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls	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		
														Consequence	Likelihood									
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?	OHS opportunities that can enhance OHS performance and lead to hazard elimination and risk reduction.	Who is exposed to the hazard i.e. visitors, members of the public, etc.	Who is accountable for making sure the controls and monitors are in place, implemented, regularly reviewed for effectiveness.	The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	Consider the worst case scenario without controls?	Elimination Substitution Engineering controls Administrative controls (Admin controls) Personal protective equipment (PPE)	Consequence	Likelihood	RCE (Risk Control Effectiveness)	How we know if we are succeeding include comments on effectiveness. This may include i.e. measurements, inspection, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls.	Where relevant, list the relevant legislative and/or Eskom requirements that prescribe the control.	Once a date has been agreed to, this can not be changed.	Pending, In Progress, Complete	Where applicable, add IRM system reference number for tracking of treatment actions.		
Support Steel (Structural and Tubular Steelwork)																								
Assembly and installation of steel structure(s)	R	1	Poor housekeeping; Uneven surfaces / terrain (Applicable to all substation work)	1.1	Slips, trips and falls	Safety	Lack of concentration; Horse play; Inadequate Risk assessment; Inadequate communication; Lack of maintenance (yardstone)	Risk assessment; Improved communication	Assembly team; Visitors	PM	8 hours daily	Medical Incident	Elimination: Poor housekeeping. Remove obstacles that may cause slips, trips; Substitution: N/A Engineering controls: N/A Admin controls: SHE Inductions; Toolbox talks and Daily Site Task Instructions; Awareness of site conditions; Supervision: Proper maintenance of yardstone PPE: N/A	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Open trenches (Applicable to all substation work)	1.2	Fall into	Safety	Inadequate barricading; Inadequate risk assessment; Insufficient supervision;	Risk assessment; Improved communication	Assembly team; Visitors	PM	8 hours daily	Medical	Elimination: N/A Substitution: N/A Engineering controls: Adequate barricading Admin controls: SHE Specification Form 74; Adequate risk assessment; Sufficient supervision PPE: N/A	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Adverse weather conditions (Applicable to all substation work)	1.3	Exposure to extreme elements; Dehydration; Frost bite	Safety	Improper use of equipment Worn out equipment PPE not worn Inadequate / Pre-use Inspections		General workers and visitors	PM	8 hours daily	Fatality	SHE Specification Form 74 SANS 1200 ALL PARTS Project specific drawings	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
Measure Foundation Assembly	R	2	Sharp edges on steel measuring tape (Applicable to all substation work)	2.1	Cuts (Injuries)	Safety	Inadequate training or experience; Improper use of equipment; PPE not worn Inadequate / Pre-use Inspections	Training;	Foundation team	PM	8 hours daily	Medical	Elimination: N/A Substitution: N/A Engineering controls: Project specific drawings Admin controls: Training, Supervision PPE: Gloves	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
Assembly and installation of steel structure(s)	Y	3	Protruding copper tails; Inadequate supervision; Lack of training	3.1	Trips and Falls	Safety	Protruding metal objects not "capped" or demarcated Lack of concentration	Training	Assembly and installation team	PM	8 hours daily	Medical	Elimination: N/A Substitution: N/A Engineering controls: Project specific drawings Admin controls: SHE Specification Form 74 SANS 1200 ALL PARTS Project specific drawings PPE: Gloves	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations; SANS 1200	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Improper hand tools usage (e.g. spike spinner) (Applicable to all substation work)	3.2	Hand / finger injuries due to tool slipping	Safety	Lack of Training; Inadequate supervision; Over torquing Inadequate PPE	Training	Assembly team	PM	8 hours daily	LTI	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: Supervision PPE: Correct hand gloves	4	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Unsecured steel / material	3.3	Falling steel / material	Safety	Improper handling Inadequate inspection; Inadequate training; Inadequate supervision	Training	Assembly team	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: SHE Specification Form 74 SANS 1200 ALL PARTS; Adequate supervision and training PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Manual handling of heavy objects / material	3.4	Ergonomics	Safety	Improper lifting techniques (inadequate training / experience); Under estimation of the weight/ load Underlying medical condition;	Training	Assembly team	PM	8 hours daily	LTI	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: SHE Specification Form 74 Medical surveillance Procedure (02-262); PDPMAN-GL-50 and Health Risk Assessment PPE: N/A	4	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Lifting equipment	3.5	Equipment failure Hydraulic failure Falling material	Safety	Inadequate maintenance; Inadequate inspection; Inadequate Risk assessment; Incorrect equipment rating; Incorrect slinging; Inadequate training; Inadequate supervision	Training; Maintenance;	Operators Riggers Assemblers	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: SANS 12480 safe operation of Cranes, SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (04-43845327); Safe use of lifting machines and lifting tackles (39-98); Supervision and training PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993; Driven Machinery Regulations 15; SANS 12480- Safe Operation of Cranes	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Deviation from approved lifting methodology	3.6	Falling material Load shifting Failure of equipment / tackle	Safety	Incorrect slinging; Exceeding load limits; Inadequate inspection; Inadequate training; Lack of supervision	Training; Inspection	Operators Riggers Erection team Bystanders	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: SANS 12480 safe operation of Cranes, SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (04-43845327); Safe use of lifting machines and lifting tackles (39-98); Supervision, training PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Inexperienced equipment operator(s) (Applicable to all substation work)	3.7	Loss of control of equipment Falling material	Safety	Inadequate training and experience; Lack of supervision	Training; Experience	Operator Riggers Bystanders	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: SANS 12480 safe operation of Cranes, SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (04-43845327); Safe use of lifting machines and lifting tackles (39-98); Supervision PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Suspended load	3.8	Load falling from height	Safety	Failure of lifting equipment Improperly secured load Elevated position Not following procedures Inadequate training; Inadequate supervision	Training; Experience	Erection Team Bystanders	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering controls: N/A Admin controls: SANS 12480 safe operation of Cranes, SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (04-43845327); Safe use of lifting machines and lifting tackles (39-98); Supervision PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A



			Assembly of parts – See assessment Assembly above		Musculoskeletal injuries Pinched by / Caught between cylinders	Safety	Incorrect lifting technique; Awkward position; Inadequate safe work procedures; Inadequate risk assessment; Inadequate training / supervision	Training; Experience;	Assembly team	PM	11 hours daily	Medical Incident	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; PPE: N/A	6	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager		Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
			Measure Foundation Assembly – see Measure foundation assessment above		Musculoskeletal injuries Pinched by / Caught between cylinders	Safety	Incorrect lifting technique; Awkward position; Inadequate safe work procedures; Inadequate risk assessment; Inadequate training / supervision	Training; Experience;	Assembly team	PM	12 hours daily	Medical Incident	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; PPE: N/A	7	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager		Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
			Torque/ Tighten – See Tightening and torque assessment above		Musculoskeletal injuries Pinched by / Caught between cylinders	Safety	Incorrect lifting technique; Awkward position; Inadequate safe work procedures; Inadequate risk assessment; Inadequate training / supervision	Training; Experience;	Assembly team	PM	13 hours daily	Medical Incident	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; PPE: N/A	8	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager		Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
			Leveling of Top Cap										Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74 Working at Height (32-418) Life saving rules (32-421) PPE: Full body harness	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
	N	9	Hand tools										Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74 PPE: Suitable hand gloves	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
													Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74 PPE: Suitable hand gloves	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
													Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74 PPE: N/A	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
<b>Current Transformers</b>																									
			Tighten Bolt and attach steel to insulators – See tightening and torquing assessment above																						
	R	10	Suspended load										Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74 Safe use of lifting machines and lifting tackles (39- 98) and SANS 12481 (Safe use of cranes) Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
			Uneven / Unstable platform										Elimination: N/A Substitute: N/A; Engineering controls: Compacting Specifications Admin controls: Trained and experienced workers, Competent supervision, Compacting Method statements / Safe work procedures; Adequate Risk assessments; SHE Specification Form 74; PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
			Load being lifted										Elimination: N/A Substitute: N/A; Engineering controls: Compacting Specifications Admin controls: Trained and experienced workers, Competent supervision, Compacting Method statements / Safe work procedures; Adequate Risk assessments; SHE Specification Form 74; Safe use of lifting machines and lifting tackles (39- 98) and SANS 12481 (Safe use of cranes) PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
			Transformers / heavy equipment (improper handling of)										Elimination: N/A Substitute: N/A; Engineering controls: Compacting Specifications Admin controls: Trained and experienced workers, Competent supervision, Compacting Method statements / Safe work procedures; Adequate Risk assessments; SHE Specification Form 74; Safe use of lifting machines and lifting tackles (39- 98) and SANS 12481 (Safe use of cranes) PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	
	R	11	Hand tools										Elimination: N/A Substitute: N/A; Engineering controls: Compacting Specifications Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74; PPE: Suitable hand gloves	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A	





			Cable Jack (Failure)	29.2	Jack and drum collapse	Safety	Exceeding safe workload Lack of inspections / maintenance Uneven surface / incorrect Lifting techniques Defective Jacks	Training; Supervision; Maintenance of lifting equipment (Jack)	Installers Bystanders	PM	8 hours daily	LTI	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Trained and experienced workers. Competent supervision. Safe lifting procedures; Correctly rated jacks Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	4	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	23	Fragmented Wood (splinters)	30.1	Contact with splinters (hand injuries)	Safety	Inadequate hand protection / failure to use provided PPE;	Awareness training; Supervision;	Installer	PM	8 hours daily	Medical; First aid	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Trained and experienced workers. Competent supervision. Inspection of drums prior removal; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Suitable hand protection	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Protruding nails	30.2	Stepping on nails	Safety	Lack of awareness of protruding nails Poor housekeeping (failure to flatten nails with hammer) Non-Compliance to Procedure Inadequate Risk assessment	Awareness training; Supervision;	Installer	PM	8 hours daily	Medical Incident	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Trained and experienced workers. Competent supervision. Flattening of nails with hammer; Housekeeping; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Suitable foot protection	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	24	Earth wire - Pulled by hand	31.1	Ergonomics	Safety	Trestle failure Earth wire-entanglement on drum	Awareness training; Supervision;	Installer	PM	8 hours daily	Medical	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Awareness training on ergonomics. Competent supervision; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	3	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	24	Elevated position	32.1	Fall from height	Safety	Failure to secure properly PPE failure Inadequate training and supervision; Underlying medical conditions Non-compliance to method statement	Awareness training; Supervision;	Installer	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Work at Height training. Competent supervision; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Full body harness	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	26	Clamps failure	33.1	Earth wire collapse	Safety	Manufacturing defects Lack of pre-use inspection	Awareness training; Supervision; Quality control of equipment	Installer	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Training. Competent supervision. Use of correctly rated lifting equipment and regular inspection; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	27	Under-rated clamps (Hardware failure e.g. clamps and hooks)	34.1	Clamp / hook failure	Safety	Manufacturing defects, understated lifting equipment (clamps) Lack of pre-use inspection	Awareness training; Supervision; Quality control of equipment	Installer	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Training. Competent supervision. Use of correctly rated lifting equipment and regular inspection; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	5	B	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	28	Tensioned Earth wire	35.1	Earth wire failure / snapping	Safety	Metal Fatigue Over tensioning Latent defects	Awareness training; Supervision; Quality control of equipment	Installer / Bystander	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A Engineering controls: Engineers to be present to ensure correct tensioning. Admin controls: Training. Competent supervision. Use of correctly rated lifting equipment and regular inspection for latent defects; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Come along clamp	35.2	Come along clamp failure	Safety	Incorrect size Metal fatigue Poor maintenance Lack of pre-use Inspections Incorrect handling Defective equipment Non-compliance to Procedure Lack of Statutory inspections	Awareness training; Supervision; Quality control of equipment	Installer Bystander	PM	8 hours daily	LTI	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Training. Competent supervision and riggers. Use of correctly rated lifting equipment (come-along clamps) and regular inspection; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	4	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	29	Criminals	36.1	Gross bodily harm	Safety	Criminal activity in the vicinity of the sub-station	Awareness of work area / training; Supervision; Security assessment	Construction / Security team	PM	12 hours per day	Fatality	Elimination: N/A Substitute: N/A Engineering controls: N/A Admin controls: Training. Competent supervision. Adequate security personnel. Security assessments; Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	5	C	II	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
	N	30	Cherry Picker	37.1	Equipment failure	Safety	Improper maintenance; Failure to train operator; Inadequate supervision; Inadequate safe work procedure; Inadequate risk assessment;		Installation team	PM	8 hours daily	Fatality	Eskom Work at Height Procedure; Proper training of operators; Adequate supervision Develop adequate safe work procedure; Conduct adequate risk assessment;	5	B	I	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Working in close proximity to live equipment	37.2	Electrical contact	Safety	Failure to identify and observe safety clearance; Failure to barricade; Inadequate earthing; Inadequate communication between PDP Project Team and Distribution / Transmission; Inadequate PPE; Inadequate training; Deviation from permit to work process; Inadequate formal risk assessment and failure to communicate effectively prior to work commencement; Unauthorised / responsible persons permitted to apply and remove a portable working earth; Improper positioning of portable earths relevant to the work not scrutinised and if they interfere with the work area, be reported to the authorised/ responsible person, prior to commencement of work. Only the Engineering Assistant (EA) may remove / relocate the control earths. Be your brother's keeper	Training; Supervision	Installation team	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering: Identify and observe safety clearance; Install adequate earthing; Admin controls: Effective barricading; Adequate communication between TPD Project Team and Distribution / Transmission; Suitable / adequate PPE; Training on Eskom's ORHS and provide supervision; Safe work procedure; Inadequate risk assessment; Training on permit to work process; Adequate risk assessment and communication prior to work commencement; Authorised / responsible persons: only to apply and remove a portable working earth; Proper positioning of portable earths relevant to the work area, be reported to the authorised/ responsible person, prior to commencement of work; Only the Engineering Assistant (EA) may remove / relocate the control earths.	5	B	I	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Static	37.3	Electrical contact	Safety	Inadequate earthing; Inadequate safe work procedure; Inadequate risk assessment;	Training; Supervision	Installation team	PM	8 hours daily	Fatality	Elimination: N/A Substitution: N/A Engineering: Install adequate earthing; Admin controls: Adequate communication between TPD Project Team and Distribution / Transmission; Training on Eskom's ORHS and provide adequate supervision; Safe work procedure and Risk assessment; PPE: Suitable PPE for electrical work	5	B	I	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
			Multiple overhead live line crossing	37.4	Electrical flashover	Safety	Failure to identify and observe safety clearance; Failure to barricade; Inadequate communication between TPD Project Team and Distribution / Transmission;	Training; Supervision	Installation team	PM	8 hours daily	Fatality	Substitution: N/A Engineering: Install adequate earthing; Admin controls: Adequate communication between TPD Project Team and Distribution / Transmission; Training on Eskom's ORHS and provide adequate supervision; Safe work procedure and Risk assessment; PPE: Suitable PPE for electrical work	5	B	I	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	Contractor Project Manager	OHS Act, Act 85 of 1993 and its Regulations	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A

