



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):		20260425		Template Identifier:		240-70044602			
Date: 20230913									Prepared by:		Name		Signature		Authorised by:					Name: Vusi Mthunye							Document Identifier:		PDPMAN-FM-99	
											S.D Niumalo									Designation: TPD - SACPCMP – (CarChSA)							Revision number:		3	
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																				Date: 13 September 2023										
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					Additional Controls or Tasks Aimed at Improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Risk Management (IRM) reference number						
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	Indicate R or N 1. Routine activities and situations create hazards through day-to-day operations and normal work activities; 2. Non-routine activities and situations are occasional or unplanned.	#	Anything with potential to cause of harm. Note: A hazard can pose more than one risk.	#	A chance that injury, ill health or damage could occur as a result of uncontrolled hazard.	Safety or health	What causes the risk to come into effect?	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. Only for 3 hrs.	Consider the worse case scenario without controls?	Include: <u>Elimination Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and <u>Reduction Controls</u> (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls (Admin controls) Personal protective equipment (PPE)	Consequence	Likelihood	Risk Priority Rating	RCE Risk Control Effectiveness	Include: <u>Elimination Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and <u>Reduction Controls</u> (controls implemented 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 succeeding. Include comments on effectiveness. This may include i.e. measurements, inspections, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls.	Where relevant, list the relevant legislative and/or Eskom requirements that prescribe the control.	Once a date has been agreed to, this can not be changed	Pending, In Progress, Complete	Where applicable, add IRM system reference number for tracking of treatment actions.						
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; Supervisory skills; 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 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 SHE Specifications	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 Substitute: 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 Substitute: N/A; Engineering controls: N/A Admin controls: SHE Specification Form 74 Medical surveillance Procedure (32-262); 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 inspections; 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 Substitute: 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 (240-43845327); 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 18; 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 Substitute: 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 (240-43845327); 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 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 Substitute: 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 (240-43845327); 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 Substitute: 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 (240-43845327); 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						

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			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
Current Transformers																									
Tighten Bolt and attach steel to Insulators – See tightening and torqueing 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

Sling first part of the CVT, Lift up, Connect to middle part, Lift complete CVT, connect to base and secure	R	12	CVT being lifted	16.1	Falling material; Load shifting; Failure of lifting equipment / tackle	Safety	Deviation from approved safe lifting methods / Incorrect slinging; Exceeding load limits; Inadequate inspection; Inadequate training and supervision	Training; Experience;	Operators Riggers Erection team Bystanders	PM	8 hours daily	Fatality	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
	R		Lifting equipment (Inexperienced equipment operators)	16.2	Equipment falls from a height - property damage	Safety	Inadequate training / experience Lack of supervision	Training; Experience;	Operators Riggers Erection team Bystanders	PM	8 hours daily	Fatality	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
			Suspended load	16.3	Exposure to objects that can fall from a height	Safety	Failure of lifting equipment Improperly secured load Not following safe lifting procedures; Inadequate training and supervision; Inadequate risk assessment	Training; Experience;	Erection Team Bystanders	PM	8 hours daily	Fatality	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
			Unstable terrace / platform	16.4	Crane overturn	Safety	Sinking terrace Poor compaction Pill material used not according to specification Inadequate method statement or Noncompliance to method statement		Operator Riggers Bystanders	PM	8 hours daily	Fatality; Property damage	Elimination: N/A Substitution: 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
Post Insulators																								
Leveling of Top Cap	N	13	Hand tools	17.1	Contact with	Safety	Lack of concentration Non-compliance to procedures Inadequate supervision Inadequate inspection PPE not worn experience/training	Training; Experience;	Civil Team	PM	8 hours daily	Medical Incident	Elimination: N/A Substitution: 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 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
Unpack and assembly	N	14	Manual handling	18.1	Musculoskeletal disorders	Safety	Lack of concentration Non-compliance to procedures Inadequate supervision Improper lifting techniques Inadequate experience/training Underlying medical conditions	Training on ergonomics; Experience;	Assemblers	PM	8 hours daily	LTI	Elimination: N/A Substitution: Manual handling, use mechanical means instead; Engineering controls: Compacting Specifications Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74; 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
			Packing material	18.2	Contact with sharp objects	Safety	Lack of concentration Non-compliance to procedures Inadequate supervision Inadequate inspection not worn Inadequate experience/training	PPE Training; Experience;	Assemblers	PM	8 hours daily	Medical Incident	Elimination: N/A Substitution: Manual handling, use mechanical means instead; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74; PPE: Suitable 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
Fit Busbar Clamps	N	15	Hardware	19.1	Contact with	Safety	Lack of concentration Non-compliance to procedures Inadequate supervision Inadequate inspection not worn Inadequate experience/training	PPE Training; Experience;	Assemblers	PM	8 hours daily	Medical Incident	Elimination: N/A Substitution: 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 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
Sling, Lift and Install Post Insulators		16	Deviation from approved lifting methodology	21.1	Falling material Load shifting Failure of equipment / tackle	Safety	Incorrect slinging Exceeding load limits Inadequate inspection Inadequate training Lack of supervision	Training; Experience;	Operators Riggers Erection team Bystanders	PM	8 hours daily	Fatality	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
			Inexperienced equipment operator(s)	21.2	Loss control of equipment Falling material	Safety	Inadequate training / experience Lack of supervision	Training; Experience;	Operator Riggers Bystanders	PM	8 hours daily	Fatality	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	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
			Suspended load	21.3	Exposure to falling objects Falling from height	Safety	Failure of lifting equipment Improperly secured load Elevated position Not following procedures Inadequate training	Training; Supervision; Experience;	Erection Team Bystanders	PM	8 hours daily	Fatality	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	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; SANS 12480 (Safe Operation of cranes)	Duration of the specific activity where the hazards is applicable as per SOW	In progress	N/A
Busbars																								
Measure P1 to P1	N	17	Elevated positions	24.1	Fall from elevated positions	Safety	Failure to secure properly PPE failure Inadequate training Underlying medical conditions Engineering design constraints Non-compliance to method statement Worker complacency	Training; Experience	Climbers Bystanders	PM	8 hours daily	Fatality	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 (32-4218) Life saving rules (32-421) PPE: Full body harness	5	C	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
Cut Tube to size	N	18	Improper material handling	25.1	Strains and sprains Fingers caught between	Safety	Incorrect lifting technique Not wearing PPE Lack of concentration	Training on ergonomics; Experience	Assemblers	PM	8 hours daily	LTI	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	4	C	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

					Use of cutting tools	25.2	Exposure to noise levels above 85dB	Safety	Hearing protection (PPE) not worn Lack of noise suppression	Training: Experience	Assemblers	PM	8 hours daily	LTI Noise induced hearing loss	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, Occupational Hygiene Management (PDRMAN-GI-50) Occupational Health Risk Assessment (OHRA/POP); Medical Surveillance Procedure (240-84733329); Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) Hearing Conservation Procedure (32-425) PPE: Suitable hearing protection	4	C	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				
		19			Use of cutting tools	25.3	Contact with revolving cutting edge	Safety	Guarding not in place Non-compliance to procedure	Training: Maintenance; Experience	Assemblers	PM	8 hours daily	LTI	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, Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Suitable hand protection	4	C	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				
					Fit end caps and tack weld	N	26		Presence of inert gases e.g. argon	26.1	Asphyxiation	Safety	Uncontrolled release of gas Poor ventilation Leaking pipes Lack of maintenance and/or inspection	Training: Maintenance; Experience	Welder Bystanders	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Maintenance records of welding equipment, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Suitable breathing equipment	5	C	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
					Molten metal		26.2		Burns	26.2	Safety	Insufficient PPE Insufficient protection e.g. welding curtain, aprons, blankets Insufficient barricading	Training: Maintenance; Experience	Welder Bystanders	PM	8 hours daily	LTI	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Maintenance records of welding equipment, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Suitable welding apparel, eg welding curtain, aprons, blankets, barricading	4	C	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	
					Welding emissions		26.3		Fume inhalation	26.3	Safety	Poor ventilation Inadequate risk assessment Inadequate PPE Inadequate training Incorrect mixture air/gas/setting	Training: Maintenance; Experience	Welder	PM	8 hours daily	LTI	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Maintenance records of welding equipment, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: Suitable welding breathing equipment, barricading of welding area	4	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	
					Welding sparks		26.4		Fire	26.4	Safety	Poor house keeping Presence of combustible material No fire safety plan Fire blankets not used Non-compliance to procedure	Housekeeping; Training; Regular safety inspections	Welder Bystanders	PM	8 hours daily	LTI	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Regular inspections of work area, Safe work procedures; Adequate Risk assessments; SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	4	C	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	
					Non-return valve (Malfunctioning safety devices e.g. non return valve)		26.5		Explosion	26.5	Safety	Non-compliance to procedure Faulty flashback arrestor Inadequate inspections/ maintenance Inadequate training	Training: Supervision; Maintenance of safety devices (flashback arrestor)	Welders	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Regular inspections / maintenance of safety devices (flash back arrestors), Safe work procedures; Adequate Risk assessments; SHE Specification Form 74, Employee's right of refusal to work in an unsafe situation Procedure (240-43848327) PPE: N/A	5	C	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	
					Lift and place on PL's Fit PI clamps and Remove lifting equipment	31	20		Suspended load	27.1	Safety	Failure of lifting equipment Improperly secured load Elevated position Not following procedures Inadequate training and supervision	Training: Supervision; Maintenance of lifting equipment	Erection Team Bystanders	PM	8 hours daily	Fatality	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	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	
					Deviation from approved lifting methodology		27.2		Falling material Load shifting Failure of equipment / tackle	27.2	Safety	Incorrect slinging Exceeding load limits Inadequate inspection Inadequate training and supervision	Training: Supervision;	Operators Riggers Erection team Bystanders	PM	8 hours daily	Fatality	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	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	
Earth wire																														
					Drums placement and storage	N	21		Rotten Drums	28.1	Safety	Untreated wood causing it to rot Improper storage of drums (exposed to the elements)	Training: Supervision	Installers Bystanders Crane operators	PM	8 hours daily	LTI	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Storage standards, Treatment of cable drums; 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	
					Unsecured Drums		28.2		Drums may roll over	28.2	Safety	Stop blocks/ Wedge / Chocks not in place; Uneven surface	Training: Supervision	Installers Bystanders	PM	8 hours daily	Fatality	Elimination: N/A Substitute: N/A; Engineering controls: N/A Admin controls: Trained and experienced workers, Competent supervision, Safe work procedures; Storage standards, Placing of stop blocks under the cable drum; 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	
					Place drums on cable Jacks	N	22		Unsecured Drums	29.1	Safety	Incorrect Lifting techniques Uneven surface	Training: Supervision	Installers	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; 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	

			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 SCW	In progress	N/A
Remove cover material (Wood)	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 SCW	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 SCW	In progress	N/A
Pulling of Earth wire	N	24	Earth wire - Pulled by hand	31.1	Ergonomics	Safety	Treatise 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 SCW	In progress	N/A
Earth wire pulled from structure to structure	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 SCW	In progress	N/A
Install Pistol Grip Clamps	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 SCW	In progress	N/A
Install Clamps and hook to U bolt	N	27	Under-rated clamps (Hardware failure e.g. clamps and hooks)	34.1	Clamp / hook failure	Safety	Manufacturing defects, underated 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 SCW	In progress	N/A
Tensioning of Earth wire - Fit come along and dynamometer tensioning	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 SCW	In progress	N/A
			Come along clamp	35.2	Come along clamp failure	Safety	Incorrect size fatigue 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 SCW	In progress	N/A
Security work	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 SCW	In progress	N/A
Dismantling old busbars and install new busbars / isolators/ breakers	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 SCW	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 TPD 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; Unauthorized / 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 ORHV5 and provide Supervision; Safe work procedure; Inadequate risk assessment; Training on permit to work process; Adequate risk assessment and communication prior to work commencement; Authorized / 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 SCW	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 ORHV5 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 SCW	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 ORHV5 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 SCW	In progress	N/A

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