


Occupational Health and Safety Baseline risk assessment template - Manufacturing and Installation of Blowdown Compressor Pipework													
Business/Operating unit:		Peaking OU								Next Review Date (every 2 years):		Template Identifier:	
Date:		02-Jun-22		Prepared by: Aldrin Cloete Emmanuel Shakhane Morwyn Saulse Tessi Mpande		Authorised by:		Name: Aldrin Cloete		Document identifier:			
								Designation: Project Manager		Revision number:		1	
								Signed: 		Revision date:		31-May-24	
								Date: 2 June 2022					
Refer to Occupational Health and Safety Risk assessment procedure 32-520													
List activity	Hazard Identification	Associated risk	Risk type	What are the possible consequences?	Existing Controls			Risk Priority Rating		Control Owner	Legal and Other Requirements		
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	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	Consider the worse case scenario without controls?	Include: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Reactive Controls (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	Consequence	Likelihood		RCE Risk Control Effectiveness	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.		
Welding	Exposure to welding fumes	ARC-EYES, Eye damage, Welding fume fever	Health	Lost time due to due to ill health	Engineering controls - Local exhaust ventilation - Natural ventilation from two huge doors Administrative controls - Toolbox talks prior to commencement of works. - Visual inspection of tools before work commences - Adequate Supervision - Trained/Experienced contractors - Medical surveillance Personal protective equipment (PPE) - Welding visor/helmet - Welding Respirator	4	A	III	Fully effective	Project Manager	OHSA Section 8 and 14 GSR2 Eskom SHE Spec		
Removal of Existing pipes components in blowdown room	Manual handling Heavy lifting	Back injuries, musculoskeletal	Safety	Lost time due to injuries	Engineering controls - Mechanical trolley Administrative controls - Two-man rule to be applied at all times when needed - Toolbox talks prior to commencement of works. - Adequate Supervision - Trained contractors - Medical surveillance Personal protective equipment (PPE) - Gloves - Steel toe safety shoes	4	A	III	Fully effective	Project Manager	OHSA Section 8 and 14 GSR2 Eskom SHE Spec		
Manual lifting & moving of heavy equipment and materials with sharp objects	Lifting Heavy equipment Materials with sharp objects Defective lifting trolley	Back injuries, musculoskeletal Heavy equipment could fall onto feet sharp points can injure Falling heavy equipment	Health	Lost time due to injuries	Engineering controls - Mechanical portable trolley Administrative controls - Toolbox talks prior to commencement of works. - Visual inspection of portable trolley for lifting before work commences - Adequate Supervision - Trained/experienced contractors - Use of correct lifting technique Personal protective equipment (PPE) - Gloves - Steel toe safety shoes	4	c	II	Fully effective	Project Manager	OHSA Section 8 and 14 GSR2 Eskom SHE Spec		
COVID-19	Exposure to COVID-19	Infection	Health	Fatality	Administrative controls - social distancing - Encourage vaccination - Contractors to use minimum 70% alcohol based sanitisers - Daily self assessment is required by all contractors - Encourage openness and transparency - Daily self screening at the access gate will be done - Adherence to COVID-19 safety signs - Space constraints to limit further infections - Only 50% vehicle capacity is allowed Personal protective equipment (PPE)	5	C	II	Fully effective	Project Manager	OHSA Section 8 and 14 GSR2 Eskom SHE Spec Disaster Management Act Amended		
Exposure to loud noise	Expsoure to noise. e.g. grinders, hammers Working around equipment that produce loud noise level, eg. Compressors	Loss of degraded hearing	Health	Loss of hearing	Administrative controls - Toolbox talks prior to commencement of works. - Visual inspection of tools before work commences - Medical surveillance - Adequate Supervision - Experienced contractors Personal protective equipment (PPE) - ear plugs	3	C	II	Fully effective	Project Manager	OHSA Section 8 and 14 GSR6 Eskom SHE Spec		
Carrying and installing heavy pipes	strain on back when lifting without adequate tools and equipment	Back injury	Safety	Lost time due to injuries	Administrative controls - Toolbox talks prior to commencement of works. - Visual inspection of tools before work commences - Medical surveillance - Adequate Supervision - Experienced contractors	4	B	III	Fully effective	Project Manager	OHSA Section 8 and 14 GSR6 Eskom SHE Spec		
Grinding & drilling	Defective hand tool	cuts and abrasions Electrocution	Safety	Lost time due to injuries	Administrative controls - Toolbox talks prior to commencement of works. - Visual and routine inspection of tools before work commences - Adequate Supervision - Trained contractors Personal protective equipment (PPE) - Gloves, goggles	4	B	III	Fully effective	Project Manager	OHSA Section 8 and 14 GSR2 Eskom SHE Spec		
Scrap waste metal disposure	Sharp points when disposing of unwanted off-cuts waste materials	Cuts and abrasions	Safety	Cuts to hand	Administrative controls - Toolbox talks prior to commencement of works. - Visual inspection of tools before work commences - Adequate Supervision - Trained contractors Personal protective equipment (PPE) - Gloves, goggles	3	C	II	Fully effective	Project Manager	OHSA Section 8 and 14 GSR2 Eskom SHE Spec		