

# SAFETY, HEALTH, ENVIRONMENT PROJECT RISK ASSESSMENT

Title:		Installation of Gas monitor: CGHE0415		Risk rating without control measures					Risk rating with control measures in place							
Department	Activity	Potential Hazard	Consequence	Probability	Severity	Frequency	Risk Value	H/M/L Classification	Controls	Probability	Severity	Frequency	Risk Value	H/M/L Classification	Environmental impact Y/N	Financial impact Y/N
C&I Engineering	Installation of the amplifiers	Electric shock	Injury, fatality	4	10	3	120	Low	Ensure that a PTW is in place before work commences. Ensure that the installation is performed by qualified persons who have received proper training. Perform a pre-job brief and on the task risk assessment.	1	1	1	1	Low	N	Y
	Laying the fibre-optic cables (fiber Optic and Fire)	Damage to underground cables	Electrocution, fatality	7	10	10	700	High	Apply for the PTW and ground to be scanned before digging	1	1	1	1	Low	N	Y
		Damage to the body	Injury						Ensure that the correct posture is maintained when lifting or moving cables	1	1	1	1	Low	N	Y
	Installation of the speakers, strobe lights, alarm horns etc.	Working on a ladder/at heights	Injury	7	6	5	210	Medium	Ensure that the appropriate safety measures have been taken to ensure ladder stability and ensure that equipment is in good condition and that personnel have received proper training.	1	1	1	1	Low	N	Y
	Working adjacent to running plant	Get hooked by the rotating/ moving machinery	Injury, fatality	5	10	10	500	High	Do not wear loose clothing. Pre-job brief to be identified. PTW and on-the-job Risk Assessment to be done before work starts.	4	1	10	40	Low	N	Y
	Drilling on the concrete / metal beams	Flying debris from the drilling activity and noise	Injury, Noise Induced Hearing loss	5	7	4	140	Low	Use of eye protection equipment or a full face mask. If dust is also present, dust masks (minimum FFP2) to be worn. Hearing protection to be used.	2	3	4	24	Low	N	Y
	Working on elevated areas	Cable racks are approximately 10m from the ground, unguarded	Injury, fatality	7	10	4	280	Med	Use of safety harness. Pre-job brief to be conducted. Harness hooks to be attached in areas which will arrest a fall. Adherence to an Eskom procedure 32-418 "Working at Heights". A approved Fall Protection Plan to be attached to the Risk Assessment.	3	5	3	45	Low	N	Y
	Working with electric tools	Electricity	Shock	5	10	3	150	Low	PTW to be in force before any electrical work commences. If there is presence of water, care to be taken not to spray water onto electrical equipment. All portable electrical equipment to be on register. A pre-job brief and the On - the -Task risk assessment is essential before tasks commences.	4	4	3	48	Low	N	Y
	General walking in the common plant areas	Uneven floor, open trenches, loose trench covers	Slip, trip and fall	5	10	3	150	Low	Workers to be familiar with the surroundings at which they will work on. Good house-keeping to be practised all the time. PPE like hard hat with chin straps, eye protection, hearing protection, safety shoes / boots and overalls to be used. Pre-job risk assessment to identify and corrective actions to be put in place	5	2	3	30	Low	N	Y
		Inhalation of dust from either fly ash (from the FFP plant) or pulverised fuel	Lung infection	5	2	3	30	Low	Workers to be familiar with the surroundings at which they will work on. Pre-job risk assessment to identify and corrective actions to be put in place. Workers shall have dust masks with them all the time while working in that area.	7	2	3	42	Low	N	Y
	Lifting of heavy equipment / machinery	Dropping of the load and injuring/damaging someone	Injury, fatality	10	10	3	300	Med	Proper rigging practices to be put in place before any lift takes place. Only Qualified Rigger to do rigging. All lifting equipment to be load tested prior to the use. Area where lifting is undertaken to be solidly barricaded to prevent people from entering the area.	1	1	3	3	Low	N	Y

Simphiwe Kubheka

Originated and Supported by:

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Signature & Date

Captured by:

		Safety Risk
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